$PM_{2.5}$ SIP

Appendix A

Monitored Data and Inversion Analysis

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This appendix contains official certified data for $PM_{2.5}$ FRM monitors along with speciation (STM) and continuous (TEOM) $PM_{2.5}$ data.

FRM and STN data used in the 2000-2004 baseline attainment calculations were taken from the EPA MATS software data set. The SANDWICH speciated data is also available at the EPA airexplorer web site (http://www.epa.gov/airexplorer/).

Upper air soundings used for the inversion analysis were taken from University of Wyoming, College of Engineering, Atmospheric Sciences web site:
(http://weather.uwyo.edu/upperair/sounding.html)

TEOM data used for hourly comparisons were taken from ACHD records. All FRM, STN, and TEOM data is available from the EPA AQS system.

The Quicklook Criteria Report was generated from the EPA AQS system for all $PM_{2.5}$ monitors in Allegheny County over the timeframe 1999 through 2nd quarter 2009.

Liberty FRM Quarterly Averages (µg/m³) and % Completeness

ID	TYPE	YEAR	QTR	AVG	NDAYS	SDAYS	% COMPLETE
420030064	FRM	2000	1Q	20.278	88	91	97%
420030064	FRM	2000	2Q	21.865	71	91	78%
420030064	FRM	2000	3Q	20.838	86	92	93%
420030064	FRM	2000	4Q	20.681	83	92	90%
420030064	FRM	2001	1Q	19.448	85	90	94%
420030064	FRM	2001	2Q	25.600	90	91	99%
420030064	FRM	2001	3Q	25.621	90	92	98%
420030064	FRM	2001	4Q	21.539	72	92	78%
420030064	FRM	2002	1Q	18.141	86	90	96%
420030064	FRM	2002	2Q	22.051	91	91	100%
420030064	FRM	2002	3Q	25.166	91	92	99%
420030064	FRM	2002	4Q	15.825	87	92	95%
420030064	FRM	2003	1Q	17.112	86	90	96%
420030064	FRM	2003	2Q	19.470	91	91	100%
420030064	FRM	2003	3Q	22.977	90	92	98%
420030064	FRM	2003	4Q	21.266	92	92	100%
420030064	FRM	2004	1Q	16.680	90	91	99%
420030064	FRM	2004	2Q	20.716	88	91	97%
420030064	FRM	2004	3Q	26.301	90	92	98%
420030064	FRM	2004	4Q	18.959	82	92	89%

Liberty FRM Values (µg/m³)

ID	TYPE	DATE	PM25
420030064	FRM	20000104	8.3
420030064	FRM	20000105	7.9
420030064	FRM	20000106	23.4
420030064	FRM	20000107	25.8
420030064	FRM	20000108	30.7
420030064	FRM	20000109	15.5
420030064	FRM	20000110	10.5
420030064	FRM	20000111	7.0
420030064	FRM	20000112	11.0
420030064	FRM	20000113	9.9
420030064	FRM	20000114	7.6
420030064	FRM	20000115	18.7
420030064	FRM	20000116	9.8
420030064	FRM	20000117	5.0
420030064	FRM	20000118	10.9
420030064	FRM	20000119	15.5
420030064	FRM	20000120	12.9
420030064	FRM	20000121	13.4
420030064	FRM	20000122	22.7
420030064	FRM	20000123	25.1
420030064	FRM	20000124	21.5

Liberty FRM

ID	TYPE	DATE	PM25
420030064	FRM	20000125	21.7
420030064	FRM	20000126	16.7
420030064	FRM	20000127	7.2
420030064	FRM	20000128	20.6
420030064	FRM	20000129	46.7
420030064	FRM	20000130	13.5
420030064	FRM	20000131	16.1
420030064	FRM	20000201	17.2
420030064	FRM	20000202	15.3
420030064	FRM	20000203	35.1
420030064	FRM	20000204	21.0
420030064	FRM	20000205	10.3
420030064	FRM	20000206	22.3
420030064	FRM	20000207	21.2
420030064	FRM	20000208	25.5
420030064	FRM	20000209	78.5
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420030064	FRM	20000213	20.2
420030064	FRM	20000214	12.7
420030064	FRM	20000215	16.0
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420030064	FRM	20000217	11.0
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420030064	FRM	20000219	13.7
420030064	FRM	20000220	12.1
420030064	FRM	20000221	28.3
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420030064	FRM	20000223	27.9
420030064	FRM	20000224	39.8
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420030064	FRM	20000226	31.7
420030064	FRM	20000227	13.8
420030064	FRM	20000228	6.5
420030064	FRM	20000229	28.1
420030064	FRM	20000301	37.1
420030064	FRM	20000302	7.0
420030064	FRM	20000303	7.6
420030064	FRM	20000304	36.7
420030064	FRM	20000305	14.0
420030064	FRM	20000306	28.8
420030064	FRM	20000307	45.6
420030064	FRM	20000308	32.0
420030064	FRM	20000309	43.4
420030064	FRM	20000310	13.7
420030064	FRM	20000311	14.1
420030064	FRM	20000312	7.2
420030064	FRM	20000313	22.0
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420030064	FRM	20000315	39.1

ID	TYPE	DATE	PM25
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420030064	FRM	20000319	7.8
420030064	FRM	20000320	10.8
420030064	FRM	20000321	7.3
420030064	FRM	20000322	10.6
420030064	FRM	20000323	18.5
420030064	FRM	20000324	20.3
420030064	FRM	20000325	37.5
420030064	FRM	20000326	20.0
420030064	FRM	20000327	14.6
420030064	FRM	20000328	33.5
420030064	FRM	20000329	9.7
420030064	FRM	20000330	18.2
420030064	FRM	20000331	21.1
420030064	FRM	20000401	52.4
420030064	FRM	20000402	34.5
420030064	FRM	20000403	15.2
420030064	FRM	20000404	8.7
420030064	FRM	20000405	8.3
420030064	FRM	20000406	10.7
420030064	FRM	20000407	15.1
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420030064	FRM	20000409	8.7
420030064	FRM	20000410	8.6
420030064	FRM	20000411	14.0
420030064	FRM	20000412	10.2
420030064	FRM	20000413	11.8
420030064	FRM	20000414	11.3
420030064	FRM	20000415	11.9
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420030064	FRM	20000418	3.1
420030064	FRM	20000419	17.2
420030064	FRM	20000420	21.0
420030064	FRM	20000421	7.9
420030064	FRM	20000422	7.4
420030064	FRM	20000423	6.6
420030064	FRM	20000424	17.9
420030064	FRM	20000425	6.3
420030064	FRM	20000426	5.7
420030064	FRM	20000427	20.0
420030064	FRM	20000428	14.4
420030064	FRM	20000429	18.5
420030064	FRM	20000430	12.5
420030064	FRM	20000501	43.0
420030064	FRM	20000502	11.0
420030064	FRM	20000503	17.4
420030064	FRM	20000504	50.0
420030064	FRM	20000505	43.5

ID	TYPE	DATE	PM25
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420030064	FRM	20000507	64.2
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420030064	FRM	20000509	31.5
420030064	FRM	20000510	21.4
420030064	FRM	20000512	35.0
420030064	FRM	20000513	19.7
420030064	FRM	20000514	6.9
420030064	FRM	20000601	34.2
420030064	FRM	20000602	37.9
420030064	FRM	20000603	7.5
420030064	FRM	20000604	20.5
420030064	FRM	20000605	19.8
420030064	FRM	20000606	7.3
420030064	FRM	20000607	18.4
420030064	FRM	20000608	32.8
420030064	FRM	20000609	37.4
420030064	FRM	20000610	68.6
420030064	FRM	20000612	22.0
420030064	FRM	20000613	32.6
420030064	FRM	20000614	38.3
420030064	FRM	20000615	20.8
420030064	FRM	20000616	18.2
420030064	FRM	20000617	10.3
420030064	FRM	20000618	14.2
420030064	FRM	20000620	18.8
420030064	FRM	20000621	22.2
420030064	FRM	20000622	12.1
420030064	FRM	20000623	19.5
420030064	FRM	20000624	32.7
420030064	FRM	20000625	28.8
420030064	FRM	20000626	27.5
420030064	FRM	20000627	13.2
420030064	FRM	20000628	18.7
420030064	FRM	20000629	22.0
420030064	FRM	20000630	11.9
420030064	FRM	20000701	41.3
420030064	FRM	20000702	41.7
420030064	FRM	20000703	32.2
420030064	FRM	20000704	20.9
420030064	FRM	20000705	10.1
420030064	FRM	20000706	13.9
420030064	FRM	20000707	8.3
420030064	FRM	20000708	18.5
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420030064	FRM	20000711	16.5
420030064	FRM	20000712	8.4
420030064	FRM	20000713	34.9
420030064	FRM	20000714	34.4
420030064	FRM	20000715	13.6

ID	TYPE	DATE	PM25
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420030064	FRM	20000718	21.2
420030064	FRM	20000719	9.9
420030064	FRM	20000720	18.6
420030064	FRM	20000721	22.8
420030064	FRM	20000722	12.5
420030064	FRM	20000723	9.2
420030064	FRM	20000724	15.3
420030064	FRM	20000725	17.4
420030064	FRM	20000726	18.0
420030064	FRM	20000727	15.2
420030064	FRM	20000728	28.9
420030064	FRM	20000729	24.3
420030064	FRM	20000731	18.8
420030064	FRM	20000801	25.9
420030064	FRM	20000802	35.5
420030064	FRM	20000803	27.8
420030064	FRM	20000804	8.5
420030064	FRM	20000805	15.0
420030064	FRM	20000806	31.6
420030064	FRM	20000807	13.8
420030064	FRM	20000808	26.2
420030064	FRM	20000809	21.5
420030064	FRM	20000810	16.2
420030064	FRM	20000811	14.3
420030064	FRM	20000812	11.5
420030064	FRM	20000813	13.4
420030064	FRM	20000814	23.5
420030064	FRM	20000815	35.7
420030064	FRM	20000816	17.7
420030064	FRM	20000817	8.7
420030064	FRM	20000818	14.8
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420030064	FRM	20000821	14.2
420030064	FRM	20000822	40.4
420030064	FRM	20000823	48.6
420030064	FRM	20000824	20.4
420030064	FRM	20000825	29.9
420030064	FRM	20000826	39.2
420030064	FRM	20000827	36.5
420030064	FRM	20000828	14.7
420030064	FRM	20000829	16.4
420030064	FRM	20000830	12.0
420030064	FRM	20000831	11.5
420030064	FRM	20000901	17.6
420030064	FRM	20000902	19.2
420030064	FRM	20000903	31.4
420030064	FRM	20000904	25.1
420030064	FRM	20000905	4.1

ID	TYPE	DATE	PM25
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420030064	FRM	20000907	14.7
420030064	FRM	20000908	35.6
420030064	FRM	20000909	27.6
420030064	FRM	20000910	22.6
420030064	FRM	20000911	22.2
420030064	FRM	20000912	24.8
420030064	FRM	20000913	9.5
420030064	FRM	20000914	28.2
420030064	FRM	20000915	6.1
420030064	FRM	20000920	21.5
420030064	FRM	20000922	16.4
420030064	FRM	20000923	31.4
420030064	FRM	20000924	10.2
420030064	FRM	20000925	8.1
420030064	FRM	20000926	10.6
420030064	FRM	20000927	25.9
420030064	FRM	20000928	23.0
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420030064	FRM	20000930	35.3
420030064	FRM	20001001	48.4
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420030064	FRM	20001005	26.2
420030064	FRM	20001006	8.5
420030064	FRM	20001007	5.4
420030064	FRM	20001008	7.7
420030064	FRM	20001009	6.8
420030064	FRM	20001010	5.6
420030064	FRM	20001012	70.2
420030064	FRM	20001016	37.5
420030064	FRM	20001017	33.2
420030064	FRM	20001018	24.8
420030064	FRM	20001019	51.3
420030064	FRM	20001020	65.2
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420030064	FRM	20001027	51.7
420030064	FRM	20001028	12.6
420030064	FRM	20001029	8.5
420030064	FRM	20001030	9.1
420030064	FRM	20001031	16.7
420030064	FRM	20001101	31.6
420030064	FRM	20001102	36.7
420030064	FRM	20001103	50.7
420030064	FRM	20001104	26.7
420030064	FRM	20001105	7.8
420030064	FRM	20001106	14.3
420030064	FRM	20001107	19.8

ID	TYPE	DATE	PM25
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420030064	FRM	20001109	14.3
420030064	FRM	20001110	4.2
420030064	FRM	20001111	4.5
420030064	FRM	20001112	12.7
420030064	FRM	20001113	26.4
420030064	FRM	20001114	8.0
420030064	FRM	20001115	15.3
420030064	FRM	20001116	25.9
420030064	FRM	20001117	16.5
420030064	FRM	20001118	16.4
420030064	FRM	20001119	21.0
420030064	FRM	20001120	15.2
420030064	FRM	20001121	10.9
420030064	FRM	20001122	9.7
420030064	FRM	20001123	16.9
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420030064	FRM	20001126	7.8
420030064	FRM	20001127	14.3
420030064	FRM	20001128	25.0
420030064	FRM	20001129	21.6
420030064	FRM	20001130	9.5
420030064	FRM	20001201	12.7
420030064	FRM	20001202	7.2
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420030064	FRM	20001205	10.7
420030064	FRM	20001206	10.0
420030064	FRM	20001207	16.9
420030064	FRM	20001208	15.0
420030064	FRM	20001209	12.7
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420030064	FRM	20001211	20.9
420030064	FRM	20001213	11.0
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420030064	FRM	20001215	17.2
420030064	FRM	20001216	9.7
420030064	FRM	20001217	9.9
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420030064	FRM	20001220	13.9
420030064	FRM	20001221	16.5
420030064	FRM	20001222	9.6
420030064	FRM	20001223	17.5
420030064	FRM	20001224	18.4
420030064	FRM	20001225	12.7
420030064	FRM	20001226	19.4
420030064	FRM	20001227	11.9
420030064	FRM	20001228	10.9
420030064	FRM	20001229	22.0
420030064	FRM	20001230	18.7

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420030064	FRM	20010106	47.4
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420030064	FRM	20010108	24.1
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420030064	FRM	20010112	61.4
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420030064	FRM	20010115	32.2
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420030064	FRM	20010121	13.9
420030064	FRM	20010122	34.7
420030064	FRM	20010123	90.2
420030064	FRM	20010124	40.0
420030064	FRM	20010125	10.0
420030064	FRM	20010126	31.7
420030064	FRM	20010127	9.5
420030064	FRM	20010128	13.9
420030064	FRM	20010129	23.1
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420030064	FRM	20010203	13.8
420030064	FRM	20010204	13.7
420030064	FRM	20010205	23.0
420030064	FRM	20010206	15.8
420030064	FRM	20010207	13.3
420030064	FRM	20010208	31.2
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420030064	FRM	20010216	19.5
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420030064	FRM	20010221	11.9
420030064	FRM	20010222	9.7

ID	TYPE	DATE	PM25
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420030064	FRM	20010226	18.9
420030064	FRM	20010227	36.0
420030064	FRM	20010228	10.2
420030064	FRM	20010301	10.9
420030064	FRM	20010302	12.9
420030064	FRM	20010304	14.0
420030064	FRM	20010305	7.8
420030064	FRM	20010306	7.5
420030064	FRM	20010307	8.0
420030064	FRM	20010308	23.5
420030064	FRM	20010309	14.1
420030064	FRM	20010311	28.4
420030064	FRM	20010312	13.7
420030064	FRM	20010313	13.7
420030064	FRM	20010314	20.1
420030064	FRM	20010315	19.4
420030064	FRM	20010316	10.2
420030064	FRM	20010317	6.9
420030064	FRM	20010318	3.7
420030064	FRM	20010319	7.6
420030064	FRM	20010320	7.8
420030064	FRM	20010321	5.6
420030064	FRM	20010322	7.9
420030064	FRM	20010323	22.6
420030064	FRM	20010324	23.3
420030064	FRM	20010325	10.1
420030064	FRM	20010326	7.2
420030064	FRM	20010327	12.4
420030064	FRM	20010328	33.7
420030064	FRM	20010329	16.9
420030064	FRM	20010330	11.5
420030064	FRM	20010331	18.6
420030064	FRM	20010401	27.0
420030064	FRM	20010402	19.9
420030064	FRM	20010403	24.0
420030064	FRM	20010404	16.2
420030064	FRM	20010405	23.1
420030064	FRM	20010406	37.0
420030064	FRM	20010407	25.5
420030064	FRM	20010408	25.0
420030064	FRM	20010410	16.0
420030064	FRM	20010411	12.3
420030064	FRM	20010412	16.8
420030064	FRM	20010413	5.5
420030064	FRM	20010414	23.6
420030064	FRM	20010415	22.2
420030064	FRM	20010416	8.8
420030064	FRM	20010417	9.0

Liberty FRM

ID	TYPE	DATE	PM25
420030064	FRM	20010418	7.0
420030064	FRM	20010419	28.8
420030064	FRM	20010420	27.4
420030064	FRM	20010421	33.7
420030064	FRM	20010422	26.0
420030064	FRM	20010423	54.9
420030064	FRM	20010424	7.4
420030064	FRM	20010425	7.3
420030064	FRM	20010426	32.3
420030064	FRM	20010427	38.0
420030064	FRM	20010428	6.5
420030064	FRM	20010429	8.3
420030064	FRM	20010430	48.2
420030064	FRM	20010501	63.9
420030064	FRM	20010502	71.9
420030064	FRM	20010503	98.6
420030064	FRM	20010504	81.0
420030064	FRM	20010505	25.7
420030064	FRM	20010506	8.5
420030064	FRM	20010507	7.9
420030064	FRM	20010508	14.8
420030064	FRM	20010509	29.9
420030064	FRM	20010510	65.5
420030064	FRM	20010511	47.2
420030064	FRM	20010512	13.0
420030064	FRM	20010513	5.1
420030064	FRM	20010514	16.5
420030064	FRM	20010515	29.9
420030064	FRM	20010516	15.9
420030064	FRM	20010517	14.6
420030064	FRM	20010518	20.3
420030064	FRM	20010519	19.0
420030064	FRM	20010520	12.8
420030064	FRM	20010521	5.4
420030064	FRM	20010522	11.9
420030064	FRM	20010523	13.0
420030064	FRM	20010524	11.4
420030064	FRM	20010525	8.2
420030064	FRM	20010526	13.6
420030064	FRM	20010527	11.5
420030064	FRM	20010528	16.3
420030064	FRM	20010529	23.7
420030064	FRM	20010530	4.2
420030064	FRM	20010531	20.1
420030064	FRM	20010601	14.0
420030064	FRM	20010602	14.0
420030064	FRM	20010603	6.8
420030064	FRM	20010604	18.3
420030064	FRM	20010605	18.7
420030064	FRM	20010606	20.9
420030064	FRM	20010607	17.3

Liberty FRM

ID	TYPE	DATE	PM25
420030064	FRM	20010608	10.8
420030064	FRM	20010609	36.1
420030064	FRM	20010610	46.1
420030064	FRM	20010611	50.9
420030064	FRM	20010612	52.1
420030064	FRM	20010613	26.3
420030064	FRM	20010614	38.8
420030064	FRM	20010615	23.4
420030064	FRM	20010616	15.3
420030064	FRM	20010617	20.5
420030064	FRM	20010618	34.8
420030064	FRM	20010619	45.3
420030064	FRM	20010620	43.2
420030064	FRM	20010621	25.9
420030064	FRM	20010622	19.3
420030064	FRM	20010623	11.5
420030064	FRM	20010624	23.7
420030064	FRM	20010625	25.1
420030064	FRM	20010626	26.9
420030064	FRM	20010627	38.2
420030064	FRM	20010628	46.7
420030064	FRM	20010629	57.4
420030064	FRM	20010630	36.7
420030064	FRM	20010701	16.9
420030064	FRM	20010702	11.8
420030064	FRM	20010703	38.0
420030064	FRM	20010704	23.0
420030064	FRM	20010706	20.6
420030064	FRM	20010707	29.0
420030064	FRM	20010708	24.4
420030064	FRM	20010709	38.2
420030064	FRM	20010710	42.5
420030064	FRM	20010711	10.6
420030064	FRM	20010712	16.5
420030064	FRM	20010713	15.8
420030064	FRM	20010714	13.1
420030064	FRM	20010715	34.9
420030064	FRM	20010716	41.5
420030064	FRM	20010717	43.4
420030064	FRM	20010718	36.2
420030064	FRM	20010719	34.0
420030064	FRM	20010720	17.1
420030064	FRM	20010721	15.9
420030064	FRM	20010722	35.5
420030064	FRM	20010723	47.2
420030064	FRM	20010724	42.7
420030064	FRM	20010725	39.5
420030064	FRM	20010726	13.6
420030064	FRM	20010727	5.6
420030064	FRM	20010728	15.4
420030064	FRM	20010729	4.4

Liberty FRM

ID	TYPE	DATE	PM25
420030064	FRM	20010730	13.7
420030064	FRM	20010731	33.0
420030064	FRM	20010801	47.3
420030064	FRM	20010802	54.4
420030064	FRM	20010803	44.0
420030064	FRM	20010804	31.2
420030064	FRM	20010805	40.8
420030064	FRM	20010806	52.5
420030064	FRM	20010807	44.3
420030064	FRM	20010808	45.2
420030064	FRM	20010809	56.4
420030064	FRM	20010810	27.3
420030064	FRM	20010811	16.7
420030064	FRM	20010812	26.0
420030064	FRM	20010813	28.8
420030064	FRM	20010814	10.0
420030064	FRM	20010815	36.6
420030064	FRM	20010816	44.3
420030064	FRM	20010817	19.1
420030064	FRM	20010818	28.6
420030064	FRM	20010819	23.8
420030064	FRM	20010820	14.5
420030064	FRM	20010821	12.5
420030064	FRM	20010822	28.9
420030064	FRM	20010823	21.3
420030064	FRM	20010824	38.8
420030064	FRM	20010825	38.4
420030064	FRM	20010826	34.0
420030064	FRM	20010827	21.0
420030064	FRM	20010828	25.3
420030064	FRM	20010829	14.7
420030064	FRM	20010830	41.0
420030064	FRM	20010831	27.3
420030064	FRM	20010901	5.7
420030064	FRM	20010902	26.4
420030064	FRM	20010903	34.0
420030064	FRM	20010905	12.6
420030064	FRM	20010906	16.4
420030064	FRM	20010907	37.9
420030064	FRM	20010908	38.5
420030064	FRM	20010909	23.4
420030064	FRM	20010910	8.4
420030064	FRM	20010911	15.6
420030064	FRM	20010912	27.4
420030064	FRM	20010913	31.6
420030064	FRM	20010914	4.2
420030064	FRM	20010915	5.2
420030064	FRM	20010916	12.1
420030064	FRM	20010917	33.9
420030064	FRM	20010918	34.7
420030064	FRM	20010919	26.2

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ID	TYPE	DATE	PM25
420030064	FRM	20010920	21.9
420030064	FRM	20010921	26.2
420030064	FRM	20010922	16.9
420030064	FRM	20010923	23.5
420030064	FRM	20010924	17.1
420030064	FRM	20010925	3.5
420030064	FRM	20010926	6.8
420030064	FRM	20010927	5.9
420030064	FRM	20010928	7.0
420030064	FRM	20010929	6.9
420030064	FRM	20010930	7.0
420030064	FRM	20011001	26.9
420030064	FRM	20011002	30.9
420030064	FRM	20011003	35.7
420030064	FRM	20011004	39.0
420030064	FRM	20011005	32.7
420030064	FRM	20011006	5.0
420030064	FRM	20011007	4.5
420030064	FRM	20011008	21.2
420030064	FRM	20011010	38.7
420030064	FRM	20011011	20.0
420030064	FRM	20011012	9.7
420030064	FRM	20011013	8.2
420030064	FRM	20011014	5.6
420030064	FRM	20011015	9.4
420030064	FRM	20011016	6.6
420030064	FRM	20011017	2.9
420030064	FRM	20011018	19.1
420030064	FRM	20011019	33.3
420030064	FRM	20011020	27.3
420030064	FRM	20011021	57.5
420030064	FRM	20011022	39.7
420030064	FRM	20011023	24.4
420030064	FRM	20011024	12.2
420030064	FRM	20011026	4.7
420030064	FRM	20011027	4.0
420030064	FRM	20011028	9.2
420030064	FRM	20011029	36.8
420030064	FRM	20011030	22.1
420030064	FRM	20011031	28.8
420030064	FRM	20011101	49.9
420030064	FRM	20011102	27.8
420030064	FRM	20011103	11.6
420030064	FRM	20011104	32.6
420030064	FRM	20011105	4.2
420030064	FRM	20011106	27.1
420030064	FRM	20011116	48.0
420030064	FRM	20011117	39.5
420030064	FRM	20011118	50.1
420030064	FRM	20011119	64.6
420030064	FRM	20011120	9.4

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ID	TYPE	DATE	PM25
420030064	FRM	20011122	45.7
420030064	FRM	20011123	35.0
420030064	FRM	20011124	9.2
420030064	FRM	20011125	8.5
420030064	FRM	20011126	24.3
420030064	FRM	20011129	20.8
420030064	FRM	20011130	10.6
420030064	FRM	20011201	7.4
420030064	FRM	20011202	18.4
420030064	FRM	20011203	51.0
420030064	FRM	20011204	56.4
420030064	FRM	20011205	31.2
420030064	FRM	20011206	20.7
420030064	FRM	20011207	11.5
420030064	FRM	20011208	8.9
420030064	FRM	20011210	19.3
420030064	FRM	20011211	20.5
420030064	FRM	20011213	7.0
420030064	FRM	20011215	5.4
420030064	FRM	20011219	21.2
420030064	FRM	20011220	3.8
420030064	FRM	20011221	9.2
420030064	FRM	20011222	26.1
420030064	FRM	20011223	22.5
420030064	FRM	20011224	7.0
420030064	FRM	20011225	8.7
420030064	FRM	20011226	11.4
420030064	FRM	20011227	8.1
420030064	FRM	20011228	12.6
420030064	FRM	20011229	8.4
420030064	FRM	20011230	8.5
420030064	FRM	20011231	10.6
420030064	FRM	20020101	13.8
420030064	FRM	20020102	18.7
420030064	FRM	20020103	33.5
420030064	FRM	20020104	12.9
420030064	FRM	20020105	16.5
420030064	FRM	20020106	19.7
420030064	FRM	20020107	8.7
420030064	FRM	20020108	17.1
420030064	FRM	20020109	17.2
420030064	FRM	20020110	20.9
420030064	FRM	20020111	12.7
420030064	FRM	20020112	23.7
420030064	FRM	20020113	9.2
420030064	FRM	20020114	20.4
420030064	FRM	20020116	11.1
420030064	FRM	20020117	14.7
420030064	FRM	20020118	12.3
420030064	FRM	20020119	19.2
420030064	FRM	20020120	21.8

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ID	TYPE	DATE	PM25
420030064	FRM	20020121	21.0
420030064	FRM	20020122	20.7
420030064	FRM	20020123	23.2
420030064	FRM	20020125	10.5
420030064	FRM	20020126	34.6
420030064	FRM	20020127	61.2
420030064	FRM	20020128	61.9
420030064	FRM	20020130	8.9
420030064	FRM	20020131	11.1
420030064	FRM	20020201	10.9
420030064	FRM	20020202	9.0
420030064	FRM	20020203	21.0
420030064	FRM	20020204	6.8
420030064	FRM	20020205	6.2
420030064	FRM	20020206	17.5
420030064	FRM	20020207	13.7
420030064	FRM	20020209	30.2
420030064	FRM	20020210	13.2
420030064	FRM	20020211	7.4
420030064	FRM	20020212	13.2
420030064	FRM	20020213	6.3
420030064	FRM	20020214	32.8
420030064	FRM	20020215	38.3
420030064	FRM	20020216	10.0
420030064	FRM	20020217	4.3
420030064	FRM	20020218	16.8
420030064	FRM	20020219	37.4
420030064	FRM	20020220	19.7
420030064	FRM	20020221	10.1
420030064	FRM	20020222	7.8
420030064	FRM	20020223	13.8
420030064	FRM	20020224	37.1
420030064	FRM	20020225	50.2
420030064	FRM	20020226	30.0
420030064	FRM	20020227	7.3
420030064	FRM	20020228	11.4
420030064	FRM	20020301	13.0
420030064	FRM	20020302	7.7
420030064	FRM	20020303	9.0
420030064	FRM	20020304	7.0
420030064	FRM	20020305	18.2
420030064	FRM	20020306	25.7
420030064	FRM	20020307	43.5
420030064	FRM	20020308	32.6
420030064	FRM	20020309	12.0
420030064	FRM	20020310	4.5
420030064	FRM	20020311	10.3
420030064	FRM	20020312	20.3
420030064	FRM	20020313	18.9
420030064	FRM	20020314	50.8
420030064	FRM	20020315	27.0

ID	TYPE	DATE	PM25
420030064	FRM	20020316	10.9
420030064	FRM	20020317	6.3
420030064	FRM	20020318	12.5
420030064	FRM	20020319	13.6
420030064	FRM	20020320	7.6
420030064	FRM	20020321	11.8
420030064	FRM	20020322	7.2
420030064	FRM	20020323	7.1
420030064	FRM	20020324	18.0
420030064	FRM	20020325	15.5
420030064	FRM	20020326	15.1
420030064	FRM	20020327	10.7
420030064	FRM	20020328	25.2
420030064	FRM	20020329	15.1
420030064	FRM	20020330	7.4
420030064	FRM	20020331	16.0
420030064	FRM	20020401	9.2
420030064	FRM	20020402	16.1
420030064	FRM	20020403	7.5
420030064	FRM	20020404	9.9
420030064	FRM	20020405	8.3
420030064	FRM	20020406	6.4
420030064	FRM	20020407	12.1
420030064	FRM	20020408	19.5
420030064	FRM	20020409	14.8
420030064	FRM	20020410	7.0
420030064	FRM	20020411	10.7
420030064	FRM	20020412	11.7
420030064	FRM	20020413	17.2
420030064	FRM	20020414	19.5
420030064	FRM	20020415	18.3
420030064	FRM	20020416	58.2
420030064	FRM	20020417	61.5
420030064	FRM	20020418	33.1
420030064	FRM	20020419	35.5
420030064	FRM	20020420	11.8
420030064	FRM	20020421	9.6
420030064	FRM	20020422	7.4
420030064	FRM	20020423	11.2
420030064	FRM	20020424	17.9
420030064	FRM	20020425	8.6
420030064	FRM	20020426	8.8
420030064	FRM	20020427	11.7
420030064	FRM	20020428	12.4
420030064	FRM	20020429	5.5
420030064	FRM	20020430	11.1
420030064	FRM	20020501	7.3
420030064	FRM	20020502	14.0
420030064	FRM	20020503	5.6
420030064	FRM	20020504	8.7
420030064	FRM	20020505	31.3

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ID	TYPE	DATE	PM25
420030064	FRM	20020506	41.9
420030064	FRM	20020507	16.2
420030064	FRM	20020508	16.7
420030064	FRM	20020509	19.4
420030064	FRM	20020510	6.5
420030064	FRM	20020511	21.0
420030064	FRM	20020512	24.1
420030064	FRM	20020513	10.5
420030064	FRM	20020514	6.7
420030064	FRM	20020515	16.4
420030064	FRM	20020516	32.0
420030064	FRM	20020517	8.7
420030064	FRM	20020518	5.0
420030064	FRM	20020519	11.9
420030064	FRM	20020520	7.2
420030064	FRM	20020521	13.4
420030064	FRM	20020522	48.6
420030064	FRM	20020523	49.2
420030064	FRM	20020524	35.5
420030064	FRM	20020525	24.5
420030064	FRM	20020526	18.0
420030064	FRM	20020527	26.8
420030064	FRM	20020528	23.5
420030064	FRM	20020529	18.4
420030064	FRM	20020530	30.4
420030064	FRM	20020531	30.2
420030064	FRM	20020601	23.5
420030064	FRM	20020602	11.9
420030064	FRM	20020603	14.5
420030064	FRM	20020604	26.7
420030064	FRM	20020605	22.7
420030064	FRM	20020606	5.6
420030064	FRM	20020607	6.1
420030064	FRM	20020608	23.7
420030064	FRM	20020609	53.0
420030064	FRM	20020610	60.0
420030064	FRM	20020611	54.9
420030064	FRM	20020612	28.2
420030064	FRM	20020613	21.2
420030064	FRM	20020614	16.8
420030064	FRM	20020615	9.4
420030064	FRM	20020616	7.7
420030064	FRM	20020617	15.5
420030064	FRM	20020618	24.0
420030064	FRM	20020619	17.6
420030064	FRM	20020620	29.8
420030064	FRM	20020621	33.6
420030064	FRM	20020622	51.9
420030064	FRM	20020623	49.4
420030064	FRM	20020624	52.3
420030064	FRM	20020625	62.6

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ID	TYPE	DATE	PM25
420030064	FRM	20020626	58.2
420030064	FRM	20020627	20.7
420030064	FRM	20020628	10.6
420030064	FRM	20020629	19.5
420030064	FRM	20020630	52.9
420030064	FRM	20020701	59.9
420030064	FRM	20020702	50.3
420030064	FRM	20020703	33.9
420030064	FRM	20020704	44.9
420030064	FRM	20020705	8.1
420030064	FRM	20020706	10.2
420030064	FRM	20020707	44.0
420030064	FRM	20020708	51.6
420030064	FRM	20020709	43.2
420030064	FRM	20020710	17.6
420030064	FRM	20020711	5.5
420030064	FRM	20020712	8.7
420030064	FRM	20020713	31.4
420030064	FRM	20020714	9.3
420030064	FRM	20020715	24.7
420030064	FRM	20020716	33.6
420030064	FRM	20020717	48.1
420030064	FRM	20020718	54.5
420030064	FRM	20020719	28.3
420030064	FRM	20020720	33.1
420030064	FRM	20020721	54.7
420030064	FRM	20020722	51.6
420030064	FRM	20020723	26.8
420030064	FRM	20020724	15.8
420030064	FRM	20020725	12.5
420030064	FRM	20020726	24.2
420030064	FRM	20020727	25.4
420030064	FRM	20020728	27.4
420030064	FRM	20020729	19.4
420030064	FRM	20020730	14.8
420030064	FRM	20020731	25.2
420030064	FRM	20020801	35.8
420030064	FRM	20020802	44.0
420030064	FRM	20020803	17.0
420030064	FRM	20020804	36.2
420030064	FRM	20020805	37.0
420030064	FRM	20020806	4.7
420030064	FRM	20020807	5.6
420030064	FRM	20020808	7.2
420030064	FRM	20020809	16.6
420030064	FRM	20020810	32.9
420030064	FRM	20020811	69.6
420030064	FRM	20020812	48.4
420030064	FRM	20020813	30.9
420030064	FRM	20020814	37.6
420030064	FRM	20020815	24.5

ID	TYPE	DATE	PM25
420030064	FRM	20020816	20.0
420030064	FRM	20020817	16.6
420030064	FRM	20020818	16.6
420030064	FRM	20020819	18.7
420030064	FRM	20020820	13.4
420030064	FRM	20020821	20.6
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420030064	FRM	20031223	17.1
420030064	FRM	20031224	7.0
420030064	FRM	20031225	6.3
420030064	FRM	20031226	15.1
420030064	FRM	20031227	40.2
420030064	FRM	20031228	48.0
420030064	FRM	20031229	71.0
420030064	FRM	20031230	16.4
420030064	FRM	20031231	27.7
420030064	FRM	20040101	32.0
420030064	FRM	20040102	21.2
420030064	FRM	20040103	15.8
420030064	FRM	20040104	4.9
420030064	FRM	20040105	7.3
420030064	FRM	20040106	5.2
420030064	FRM	20040107	5.8
420030064	FRM	20040108	10.1
420030064	FRM	20040109	8.5
420030064	FRM	20040110	10.2
420030064	FRM	20040111	25.7
420030064	FRM	20040112	11.0
420030064	FRM	20040113	7.6
420030064	FRM	20040114	12.3
420030064	FRM	20040115	9.4
420030064	FRM	20040116	8.0
420030064	FRM	20040117	31.4
420030064	FRM	20040118	12.7
420030064	FRM	20040119	6.9

Liberty FRM

ID	TYPE	DATE	PM25
420030064	FRM	20040120	4.7
420030064	FRM	20040121	18.2
420030064	FRM	20040122	8.6
420030064	FRM	20040123	8.3
420030064	FRM	20040124	11.2
420030064	FRM	20040125	10.0
420030064	FRM	20040126	7.2
420030064	FRM	20040127	7.7
420030064	FRM	20040128	10.6
420030064	FRM	20040129	9.5
420030064	FRM	20040130	12.1
420030064	FRM	20040131	13.7
420030064	FRM	20040201	45.9
420030064	FRM	20040202	11.7
420030064	FRM	20040203	12.5
420030064	FRM	20040204	19.0
420030064	FRM	20040205	16.0
420030064	FRM	20040206	11.7
420030064	FRM	20040207	9.9
420030064	FRM	20040208	8.9
420030064	FRM	20040209	26.6
420030064	FRM	20040210	8.0
420030064	FRM	20040211	12.2
420030064	FRM	20040212	22.2
420030064	FRM	20040213	13.0
420030064	FRM	20040214	15.2
420030064	FRM	20040215	8.0
420030064	FRM	20040216	7.5
420030064	FRM	20040218	20.3
420030064	FRM	20040219	28.9
420030064	FRM	20040220	36.7
420030064	FRM	20040221	7.2
420030064	FRM	20040222	7.3
420030064	FRM	20040223	16.1
420030064	FRM	20040224	17.6
420030064	FRM	20040225	8.8
420030064	FRM	20040226	5.2
420030064	FRM	20040227	5.9
420030064	FRM	20040228	53.1
420030064	FRM	20040229	94.0
420030064	FRM	20040301	64.2
420030064	FRM	20040302	10.5
420030064	FRM	20040303	39.7
420030064	FRM	20040304	17.7
420030064	FRM	20040305	21.4
420030064	FRM	20040306	8.9
420030064	FRM	20040307	9.5
420030064	FRM	20040308	5.9
420030064	FRM	20040309	8.0
420030064	FRM	20040310	27.0
420030064	FRM	20040311	40.0

ID	TYPE	DATE	PM25
420030064	FRM	20040312	10.3
420030064	FRM	20040313	12.2
420030064	FRM	20040314	18.5
420030064	FRM	20040315	6.7
420030064	FRM	20040316	7.4
420030064	FRM	20040317	7.9
420030064	FRM	20040318	12.7
420030064	FRM	20040319	13.5
420030064	FRM	20040320	24.5
420030064	FRM	20040321	5.7
420030064	FRM	20040322	5.9
420030064	FRM	20040323	27.5
420030064	FRM	20040324	55.5
420030064	FRM	20040325	23.4
420030064	FRM	20040326	47.3
420030064	FRM	20040327	12.7
420030064	FRM	20040328	7.8
420030064	FRM	20040329	8.4
420030064	FRM	20040330	12.5
420030064	FRM	20040331	10.8
420030064	FRM	20040401	6.7
420030064	FRM	20040402	8.4
420030064	FRM	20040403	7.7
420030064	FRM	20040404	2.7
420030064	FRM	20040405	2.9
420030064	FRM	20040406	13.0
420030064	FRM	20040407	14.5
420030064	FRM	20040408	17.5
420030064	FRM	20040409	10.2
420030064	FRM	20040410	34.4
420030064	FRM	20040411	7.2
420030064	FRM	20040412	9.5
420030064	FRM	20040413	3.7
420030064	FRM	20040414	4.6
420030064	FRM	20040415	5.7
420030064	FRM	20040416	31.4
420030064	FRM	20040417	56.6
420030064	FRM	20040418	51.2
420030064	FRM	20040419	31.6
420030064	FRM	20040420	8.2
420030064	FRM	20040421	16.9
420030064	FRM	20040422	10.3
420030064	FRM	20040423	17.4
420030064	FRM	20040424	12.5
420030064	FRM	20040425	18.2
420030064	FRM	20040426	8.5
420030064	FRM	20040427	5.9
420030064	FRM	20040428	10.5
420030064	FRM	20040429	45.2
420030064	FRM	20040501	18.5
420030064	FRM	20040504	10.7

ID	TYPE	DATE	PM25
420030064	FRM	20040505	15.3
420030064	FRM	20040506	35.1
420030064	FRM	20040507	19.4
420030064	FRM	20040508	26.3
420030064	FRM	20040509	57.2
420030064	FRM	20040510	57.3
420030064	FRM	20040511	39.4
420030064	FRM	20040512	42.3
420030064	FRM	20040513	30.3
420030064	FRM	20040514	23.4
420030064	FRM	20040515	15.4
420030064	FRM	20040516	13.2
420030064	FRM	20040517	17.0
420030064	FRM	20040518	16.8
420030064	FRM	20040519	10.8
420030064	FRM	20040520	21.9
420030064	FRM	20040521	15.1
420030064	FRM	20040522	21.9
420030064	FRM	20040523	28.2
420030064	FRM	20040524	16.8
420030064	FRM	20040525	16.1
420030064	FRM	20040526	17.0
420030064	FRM	20040527	17.9
420030064	FRM	20040528	8.9
420030064	FRM	20040529	6.8
420030064	FRM	20040530	13.4
420030064	FRM	20040531	12.9
420030064	FRM	20040601	9.5
420030064	FRM	20040602	12.8
420030064	FRM	20040603	9.2
420030064	FRM	20040604	9.8
420030064	FRM	20040605	12.5
420030064	FRM	20040606	28.8
420030064	FRM	20040607	59.6
420030064	FRM	20040608	71.3
420030064	FRM	20040609	54.4
420030064	FRM	20040610	13.3
420030064	FRM	20040611	6.0
420030064	FRM	20040612	9.6
420030064	FRM	20040613	13.1
420030064	FRM	20040614	16.9
420030064	FRM	20040615	29.4
420030064	FRM	20040616	22.8
420030064	FRM	20040617	18.9
420030064	FRM	20040618	22.7
420030064	FRM	20040619	14.6
420030064	FRM	20040620	13.0
420030064	FRM	20040621	31.4
420030064	FRM	20040622	24.4
420030064	FRM	20040623	17.5
420030064	FRM	20040624	39.4

Liberty FRM

ID	TYPE	DATE	PM25
420030064	FRM	20040625	18.2
420030064	FRM	20040626	11.9
420030064	FRM	20040627	27.3
420030064	FRM	20040628	24.3
420030064	FRM	20040629	19.1
420030064	FRM	20040630	42.9
420030064	FRM	20040701	59.5
420030064	FRM	20040702	71.5
420030064	FRM	20040703	41.5
420030064	FRM	20040704	31.7
420030064	FRM	20040705	15.8
420030064	FRM	20040706	28.4
420030064	FRM	20040707	26.5
420030064	FRM	20040708	13.1
420030064	FRM	20040709	17.7
420030064	FRM	20040710	41.5
420030064	FRM	20040711	32.0
420030064	FRM	20040712	25.5
420030064	FRM	20040713	28.3
420030064	FRM	20040714	17.0
420030064	FRM	20040715	11.1
420030064	FRM	20040716	21.5
420030064	FRM	20040717	49.1
420030064	FRM	20040718	27.5
420030064	FRM	20040719	22.2
420030064	FRM	20040720	30.1
420030064	FRM	20040721	50.5
420030064	FRM	20040722	35.1
420030064	FRM	20040723	12.5
420030064	FRM	20040724	9.5
420030064	FRM	20040725	11.7
420030064	FRM	20040726	10.7
420030064	FRM	20040727	18.4
420030064	FRM	20040728	19.8
420030064	FRM	20040729	31.5
420030064	FRM	20040730	23.6
420030064	FRM	20040731	18.7
420030064	FRM	20040801	21.1
420030064	FRM	20040802	23.8
420030064	FRM	20040803	40.3
420030064	FRM	20040804	25.6
420030064	FRM	20040805	9.5
420030064	FRM	20040806	6.0
420030064	FRM	20040807	17.2
420030064	FRM	20040808	30.3
420030064	FRM	20040809	37.9
420030064	FRM	20040810	38.9
420030064	FRM	20040811	22.4
420030064	FRM	20040812	12.3
420030064	FRM	20040813	11.0
420030064	FRM	20040814	25.8

ID	TYPE	DATE	PM25
420030064	FRM	20040815	33.0
420030064	FRM	20040816	31.2
420030064	FRM	20040817	52.5
420030064	FRM	20040818	49.2
420030064	FRM	20040819	24.5
420030064	FRM	20040820	26.3
420030064	FRM	20040821	13.5
420030064	FRM	20040822	24.7
420030064	FRM	20040825	33.6
420030064	FRM	20040826	34.7
420030064	FRM	20040827	34.7
420030064	FRM	20040828	25.3
420030064	FRM	20040829	18.1
420030064	FRM	20040830	11.9
420030064	FRM	20040831	16.1
420030064	FRM	20040901	30.4
420030064	FRM	20040902	14.8
420030064	FRM	20040903	18.5
420030064	FRM	20040904	30.7
420030064	FRM	20040905	25.8
420030064	FRM	20040906	6.1
420030064	FRM	20040907	6.3
420030064	FRM	20040908	7.6
420030064	FRM	20040909	6.0
420030064	FRM	20040910	17.4
420030064	FRM	20040911	30.6
420030064	FRM	20040912	64.2
420030064	FRM	20040913	38.4
420030064	FRM	20040914	40.2
420030064	FRM	20040915	23.0
420030064	FRM	20040916	21.6
420030064	FRM	20040917	6.8
420030064	FRM	20040918	2.7
420030064	FRM	20040919	4.7
420030064	FRM	20040920	4.7
420030064	FRM	20040921	47.2
420030064	FRM	20040922	70.8
420030064	FRM	20040923	43.8
420030064	FRM	20040924	45.2
420030064	FRM	20040925	54.6
420030064	FRM	20040926	11.2
420030064	FRM	20040927	23.7
420030064	FRM	20040928	24.7
420030064	FRM	20040929	12.7
420030064	FRM	20040930	27.8
420030064	FRM	20041001	33.1
420030064	FRM	20041002	31.8
420030064	FRM	20041003	41.9
420030064	FRM	20041004	33.7
420030064	FRM	20041005	16.3
420030064	FRM	20041006	68.5

ID	TYPE	DATE	PM25
420030064	FRM	20041007	53.3
420030064	FRM	20041008	82.2
420030064	FRM	20041009	31.2
420030064	FRM	20041010	12.9
420030064	FRM	20041011	12.8
420030064	FRM	20041012	17.7
420030064	FRM	20041016	6.0
420030064	FRM	20041017	7.7
420030064	FRM	20041018	23.9
420030064	FRM	20041019	17.9
420030064	FRM	20041020	4.1
420030064	FRM	20041021	6.5
420030064	FRM	20041022	6.0
420030064	FRM	20041023	10.7
420030064	FRM	20041024	11.3
420030064	FRM	20041025	17.3
420030064	FRM	20041026	32.4
420030064	FRM	20041027	14.4
420030064	FRM	20041028	11.9
420030064	FRM	20041029	23.6
420030064	FRM	20041030	27.9
420030064	FRM	20041031	4.7
420030064	FRM	20041101	36.2
420030064	FRM	20041102	40.5
420030064	FRM	20041103	6.6
420030064	FRM	20041104	7.0
420030064	FRM	20041111	25.5
420030064	FRM	20041112	6.9
420030064	FRM	20041113	5.0
420030064	FRM	20041114	18.6
420030064	FRM	20041115	69.9
420030064	FRM	20041116	36.2
420030064	FRM	20041117	20.5
420030064	FRM	20041118	22.6
420030064	FRM	20041119	13.5
420030064	FRM	20041120	15.7
420030064	FRM	20041121	8.7
420030064	FRM	20041122	11.9
420030064	FRM	20041123	13.7
420030064	FRM	20041124	8.1
420030064	FRM	20041125	3.2
420030064	FRM	20041126	8.3
420030064	FRM	20041127	5.5
420030064	FRM	20041128	4.9
420030064	FRM	20041129	11.2
420030064	FRM	20041130	10.7
420030064	FRM	20041201	5.5
420030064	FRM	20041202	19.9
420030064	FRM	20041203	13.9
420030064	FRM	20041204	33.3
420030064	FRM	20041205	10.8

ID	TYPE	DATE	PM25
420030064	FRM	20041206	15.5
420030064	FRM	20041207	7.4
420030064	FRM	20041208	6.9
420030064	FRM	20041210	8.8
420030064	FRM	20041211	3.7
420030064	FRM	20041212	11.5
420030064	FRM	20041213	4.7
420030064	FRM	20041214	4.4
420030064	FRM	20041215	12.1
420030064	FRM	20041216	24.6
420030064	FRM	20041217	12.3
420030064	FRM	20041218	36.8
420030064	FRM	20041219	6.0
420030064	FRM	20041220	7.1
420030064	FRM	20041221	37.2
420030064	FRM	20041222	56.7
420030064	FRM	20041223	5.5
420030064	FRM	20041224	7.2
420030064	FRM	20041225	17.5
420030064	FRM	20041226	18.5
420030064	FRM	20041227	8.2
420030064	FRM	20041228	24.2
420030064	FRM	20041229	13.1
420030064	FRM	20041230	29.6
420030064	FRM	20041231	19.1

Clairton FRM Quarterly Averages (µg/m³) and % Completeness

ID	TYPE	YEAR	QTR	AVG	NDAYS	SDAYS	% COMPLETE
420033007	FRM	2000	1Q	---	---	---	---
420033007	FRM	2000	2Q	---	---	---	---
420033007	FRM	2000	3Q	---	---	---	---
420033007	FRM	2000	4Q	---	---	---	---
420033007	FRM	2001	1Q	14.531	13	15	87%
420033007	FRM	2001	2Q	21.773	15	15	100%
420033007	FRM	2001	3Q	20.580	15	16	94%
420033007	FRM	2001	4Q	17.733	12	15	80%
420033007	FRM	2002	1Q	12.550	14	15	93%
420033007	FRM	2002	2Q	15.173	15	15	100%
420033007	FRM	2002	3Q	21.885	13	16	81%
420033007	FRM	2002	4Q	14.393	14	15	93%
420033007	FRM	2003	1Q	17.027	15	15	100%
420033007	FRM	2003	2Q	17.557	14	15	93%
420033007	FRM	2003	3Q	21.306	16	16	100%
420033007	FRM	2003	4Q	12.193	15	15	100%
420033007	FRM	2004	1Q	11.038	13	15	87%
420033007	FRM	2004	2Q	13.086	14	15	93%
420033007	FRM	2004	3Q	17.813	15	16	94%
420033007	FRM	2004	4Q	13.262	13	15	87%

Clairton FRM Values (µg/m³)

ID	TYPE	DATE	PM25
420033007	FRM	20010107	14.5
420033007	FRM	20010123	47.2
420033007	FRM	20010125	10.0
420033007	FRM	20010131	7.8
420033007	FRM	20010206	14.4
420033007	FRM	20010212	9.0
420033007	FRM	20010218	8.0
420033007	FRM	20010224	22.9
420033007	FRM	20010302	11.4
420033007	FRM	20010308	17.7
420033007	FRM	20010314	9.2
420033007	FRM	20010320	9.8
420033007	FRM	20010326	7.0
420033007	FRM	20010401	29.2
420033007	FRM	20010407	19.8
420033007	FRM	20010413	5.3
420033007	FRM	20010419	13.2
420033007	FRM	20010427	19.2
420033007	FRM	20010503	44.5
420033007	FRM	20010507	8.0

Clairton FRM

ID	TYPE	DATE	PM25
420033007	FRM	20010517	16.7
420033007	FRM	20010519	12.2
420033007	FRM	20010602	13.2
420033007	FRM	20010606	25.5
420033007	FRM	20010612	37.9
420033007	FRM	20010618	21.0
420033007	FRM	20010626	29.7
420033007	FRM	20010630	31.2
420033007	FRM	20010706	10.5
420033007	FRM	20010712	11.1
420033007	FRM	20010718	36.5
420033007	FRM	20010724	35.0
420033007	FRM	20010731	33.1
420033007	FRM	20010805	34.1
420033007	FRM	20010811	20.7
420033007	FRM	20010817	18.7
420033007	FRM	20010823	20.5
420033007	FRM	20010829	15.9
420033007	FRM	20010904	18.3
420033007	FRM	20010910	6.2
420033007	FRM	20010918	26.0
420033007	FRM	20010922	15.4
420033007	FRM	20010928	6.7
420033007	FRM	20011004	26.1
420033007	FRM	20011012	10.5
420033007	FRM	20011016	6.5
420033007	FRM	20011022	31.5
420033007	FRM	20011031	23.7
420033007	FRM	20011103	8.2
420033007	FRM	20011116	30.3
420033007	FRM	20011122	12.6
420033007	FRM	20011129	15.4
420033007	FRM	20011203	18.6
420033007	FRM	20011209	15.5
420033007	FRM	20011219	13.9
420033007	FRM	20020108	11.4
420033007	FRM	20020114	13.0
420033007	FRM	20020120	18.7
420033007	FRM	20020126	8.7
420033007	FRM	20020201	6.0
420033007	FRM	20020207	13.5
420033007	FRM	20020213	7.5
420033007	FRM	20020219	20.2
420033007	FRM	20020225	20.2
420033007	FRM	20020303	5.8
420033007	FRM	20020309	10.0
420033007	FRM	20020315	17.9
420033007	FRM	20020321	11.9
420033007	FRM	20020327	10.9
420033007	FRM	20020402	11.6
420033007	FRM	20020408	15.9

Clairton FRM

ID	TYPE	DATE	PM25
420033007	FRM	20020414	11.1
420033007	FRM	20020423	9.7
420033007	FRM	20020426	8.0
420033007	FRM	20020502	13.6
420033007	FRM	20020508	15.9
420033007	FRM	20020514	7.2
420033007	FRM	20020520	8.2
420033007	FRM	20020526	16.2
420033007	FRM	20020601	11.9
420033007	FRM	20020607	8.2
420033007	FRM	20020613	19.5
420033007	FRM	20020619	20.2
420033007	FRM	20020625	50.4
420033007	FRM	20020701	51.6
420033007	FRM	20020709	39.8
420033007	FRM	20020713	25.0
420033007	FRM	20020725	16.0
420033007	FRM	20020731	20.1
420033007	FRM	20020806	6.1
420033007	FRM	20020812	37.5
420033007	FRM	20020818	16.3
420033007	FRM	20020824	15.2
420033007	FRM	20020830	11.5
420033007	FRM	20020905	13.8
420033007	FRM	20020911	8.4
420033007	FRM	20020917	23.2
420033007	FRM	20021005	7.6
420033007	FRM	20021011	14.5
420033007	FRM	20021017	8.5
420033007	FRM	20021023	16.2
420033007	FRM	20021029	17.1
420033007	FRM	20021104	14.0
420033007	FRM	20021110	8.0
420033007	FRM	20021116	23.6
420033007	FRM	20021122	5.0
420033007	FRM	20021128	13.0
420033007	FRM	20021204	24.3
420033007	FRM	20021210	35.0
420033007	FRM	20021216	7.7
420033007	FRM	20021222	7.0
420033007	FRM	20030103	6.6
420033007	FRM	20030109	4.3
420033007	FRM	20030115	13.7
420033007	FRM	20030121	12.4
420033007	FRM	20030127	12.8
420033007	FRM	20030202	18.1
420033007	FRM	20030208	12.5
420033007	FRM	20030214	19.4
420033007	FRM	20030221	59.3
420033007	FRM	20030226	19.5
420033007	FRM	20030304	16.5

Clairton FRM

ID	TYPE	DATE	PM25
420033007	FRM	20030312	17.8
420033007	FRM	20030316	24.1
420033007	FRM	20030322	8.9
420033007	FRM	20030328	9.5
420033007	FRM	20030403	15.2
420033007	FRM	20030409	18.0
420033007	FRM	20030415	19.9
420033007	FRM	20030421	10.3
420033007	FRM	20030427	9.1
420033007	FRM	20030503	13.6
420033007	FRM	20030515	16.3
420033007	FRM	20030521	9.2
420033007	FRM	20030527	13.6
420033007	FRM	20030602	9.9
420033007	FRM	20030608	21.8
420033007	FRM	20030614	20.5
420033007	FRM	20030620	9.6
420033007	FRM	20030626	58.8
420033007	FRM	20030702	24.5
420033007	FRM	20030708	12.2
420033007	FRM	20030714	21.1
420033007	FRM	20030720	22.7
420033007	FRM	20030726	29.1
420033007	FRM	20030801	22.9
420033007	FRM	20030807	30.7
420033007	FRM	20030813	37.0
420033007	FRM	20030819	18.5
420033007	FRM	20030825	28.4
420033007	FRM	20030831	16.5
420033007	FRM	20030906	17.2
420033007	FRM	20030912	12.6
420033007	FRM	20030918	26.8
420033007	FRM	20030925	12.3
420033007	FRM	20030930	8.4
420033007	FRM	20031006	11.2
420033007	FRM	20031012	12.5
420033007	FRM	20031018	11.7
420033007	FRM	20031024	9.3
420033007	FRM	20031030	12.3
420033007	FRM	20031105	17.4
420033007	FRM	20031111	21.1
420033007	FRM	20031117	14.1
420033007	FRM	20031123	19.2
420033007	FRM	20031129	6.9
420033007	FRM	20031205	17.3
420033007	FRM	20031211	5.0
420033007	FRM	20031217	8.4
420033007	FRM	20031223	7.6
420033007	FRM	20031230	8.9
420033007	FRM	20040104	9.2
420033007	FRM	20040110	12.2

Clairton FRM

ID	TYPE	DATE	PM25
420033007	FRM	20040116	9.4
420033007	FRM	20040122	8.4
420033007	FRM	20040128	9.7
420033007	FRM	20040212	16.2
420033007	FRM	20040221	7.3
420033007	FRM	20040227	12.2
420033007	FRM	20040304	16.0
420033007	FRM	20040313	11.1
420033007	FRM	20040316	16.7
420033007	FRM	20040322	5.8
420033007	FRM	20040328	9.3
420033007	FRM	20040403	7.6
420033007	FRM	20040409	10.3
420033007	FRM	20040415	7.7
420033007	FRM	20040421	11.3
420033007	FRM	20040427	5.2
420033007	FRM	20040503	7.6
420033007	FRM	20040509	26.3
420033007	FRM	20040515	12.0
420033007	FRM	20040521	10.4
420033007	FRM	20040602	11.4
420033007	FRM	20040608	43.2
420033007	FRM	20040614	13.0
420033007	FRM	20040620	7.5
420033007	FRM	20040626	9.7
420033007	FRM	20040708	11.1
420033007	FRM	20040714	15.3
420033007	FRM	20040720	21.8
420033007	FRM	20040726	12.2
420033007	FRM	20040801	20.9
420033007	FRM	20040807	8.7
420033007	FRM	20040813	11.7
420033007	FRM	20040819	20.9
420033007	FRM	20040825	33.1
420033007	FRM	20040831	14.5
420033007	FRM	20040906	7.7
420033007	FRM	20040912	36.2
420033007	FRM	20040918	3.5
420033007	FRM	20040924	39.8
420033007	FRM	20040930	9.8
420033007	FRM	20041006	11.2
420033007	FRM	20041012	26.4
420033007	FRM	20041018	14.6
420033007	FRM	20041024	11.9
420033007	FRM	20041030	17.9
420033007	FRM	20041111	11.8
420033007	FRM	20041117	13.2
420033007	FRM	20041129	11.9
420033007	FRM	20041205	17.9
420033007	FRM	20041211	3.8
420033007	FRM	20041217	12.7

Clairton FRM

ID	TYPE	DATE	PM25
420033007	FRM	20041223	6.1
420033007	FRM	20041229	13.0

Liberty STN Speciation % Completeness

ID	TYPE	YEAR	QTR	NDAYS	SDAYS	% COMPLETE
420030064	STN	2000	1Q	---	---	---
420030064	STN	2000	2Q	---	---	---
420030064	STN	2000	3Q	---	---	---
420030064	STN	2000	4Q	---	---	---
420030064	STN	2001	1Q	---	---	---
420030064	STN	2001	2Q	---	---	---
420030064	STN	2001	3Q	---	---	---
420030064	STN	2001	4Q	---	---	---
420030064	STN	2002	1Q	---	---	---
420030064	STN	2002	2Q	---	---	---
420030064	STN	2002	3Q	---	---	---
420030064	STN	2002	4Q	---	---	---
420030064	STN	2003	1Q	---	---	---
420030064	STN	2003	2Q	---	---	---
420030064	STN	2003	3Q	---	---	---
420030064	STN	2003	4Q	10	15	67%
420030064	STN	2004	1Q	13	15	87%
420030064	STN	2004	2Q	13	15	87%
420030064	STN	2004	3Q	12	16	75%
420030064	STN	2004	4Q	12	15	80%

Liberty STN Speciation Values (concentrations given in µg/m³)

Includes parameters calculated by EPA as part of SANDWICH/SMAT/MATS analysis

DATE	SO4	NO3R	NH4	OCB	EC	CRUSTL	SALT	DON	H2O_AIM	OC	NO3	CRUSTL_ALT	FRM_MASS	MEAS_FM	RCFM	AL	CA	FE	TI	SI
20031006	1.88	0	0.75	1.81	0.57	0.32	0.01	0.375	0.67	3.34	0.73	0.32	7.7	8.5	6.95	0.01	0	0.09	0	0.03
20031012	6.05	0	2.81	5.73	4.34	0.24	0.07	0.375	2.12	7.26	1.1	0.29	21	20.8	22.34	0.01	0	0.02	0	0.06
20031018	5.24	1.55	2.73	2.38	1.39	0.22	0.01	0.375	1.69	3.91	2.6	0.23	15.4	13.9	15.5	0.01	0.01	0.04	0	0.03
20031030	4.14	0	2.25	8.38	4.68	0.73	0.41	0.375	1.48	9.91	0.63	0.83	24	26	23.64	0.04	0.04	0.08	0	0.15
20031105	6.13	0	4.94	14.27	7.01	0.88	5.35	0.375	2.2	15.8	1.82	1.06	45.1	47.4	38.65	0.01	0.08	0.13	0.01	0.16
20031111	6.08	1.93	4.09	12.27	6.37	0.79	4.18	0.375	1.95	13.8	2.4	0.99	41	43.3	35.79	0.01	0.05	0.09	0.01	0.18
20031117	4.49	0	1.61	1.43	0.78	0.43	0.03	0.359	1.67	2.96	0.74	0.49	12.2	12.5	10.34	0.01	0.02	0.08	0	0.07
20031123	6.81	0	4.99	19.37	8.93	0.85	5.94	0.375	2.44	20.9	1.33	1.05	50.5	53.5	47.98	0.01	0.08	0.11	0	0.18
20031129	2.74	0.84	1.24	-0.03	0.12	0.11	0.01	0.363	0.91	1.5	1.23	0.1	8	7.9	5.54	0.01	0.01	0.02	0	0.01
20031211	2.23	0.17	0.75	-0.22	0.12	0.15	0.01	0.314	0.72	1.31	0.39	0.15	5.6	6.8	3.53	0.01	0.01	0.03	0	0.01
20040104	1.38	0.85	0.57	-0.36	0.12	0.27	0.04	0.232	0.38	1.17	1.07	0.29	4.9	6.1	3.16	0.01	0.01	0.05	0	0.04

DATE	SO4	NO3R	NH4	OCB	EC	CRUSTL	SALT	DON	H2O_AIM	OC	NO3	CRUSTL_ALT	FRM_MASS	MEAS_FM	RCFM	AL	CA	FE	TI	SI
20031006	1.88	0	0.75	1.81	0.57	0.32	0.01	0.375	0.67	3.34	0.73	0.32	7.7	8.5	6.95	0.01	0	0.09	0	0.03
20040110	1.67	1.92	0.98	1.71	0.45	0.22	0.08	0.254	0.59	3.24	2.03	0.23	10.2	8.9	7.98	0.01	0.02	0.04	0	0.03
20040122	2.34	1.65	1.22	0.86	0.45	0.56	0.03	0.316	0.72	2.39	1.98	0.58	8.6	10.1	7.99	0.03	0.03	0.11	0	0.07
20040128	2.63	1.79	1.36	0.41	0.26	0.28	0.01	0.319	0.81	1.94	2.01	0.32	10.6	9.8	7.33	0.01	0.02	0.04	0	0.05
20040203	4.11	1.36	1.76	1.18	0.5	0.14	0.01	0.332	1.32	2.71	1.84	0.12	12.5	12.8	10.32	0.02	0.01	0.02	0	0.01
20040209	6.55	1.29	4.21	6.4	4.15	0.6	3.36	0.375	2.19	7.93	1.99	0.78	26.6	29.5	25.29	0.01	0.03	0.04	0.01	0.16
20040215	2	2.65	1.34	0.83	0.12	0.26	0.01	0.285	0.73	2.36	2.95	0.27	8	10.5	8.1	0.01	0.02	0.05	0	0.03
20040221	3.49	0	1.32	-0.19	0.12	0.12	0.01	0.375	1.25	1.34	0.72	0.11	7.2	7.8	5.7	0.01	0.01	0.03	0	0.01
20040304	4.78	3.2	2.92	1.94	1.27	0.36	0.05	0.375	1.43	3.47	4.01	0.43	17.7	18.4	16.09	0.01	0.02	0.05	0	0.07
20040310	5.23	0.87	2.82	5.89	3.77	0.86	2.62	0.375	1.77	7.42	1.68	1.01	27	24.5	22.23	0.01	0.08	0.15	0	0.14
20040316	2.89	0.64	1.01	0.38	0.39	0.18	0.01	0.286	0.76	1.91	0.91	0.2	7.4	7.7	6.24	0.01	0.01	0.03	0	0.03
20040322	1.84	0.21	0.74	0.63	0.33	0.26	0.01	0.369	0.65	2.16	0.61	0.27	5.9	6	4.79	0.01	0.02	0.05	0	0.03
20040328	2.78	0	1.06	1.07	0.55	0.47	0.01	0.375	1	2.6	0.95	0.5	7.8		7.57	0.03	0.02	0.09	0	0.07
20040403	3.32	0	1.15	0.7	0.12	0.29	0.08	0.346	1.23	2.23	0.9	0.31	7.7	8.4	7.11	0.01	0.03	0.05	0	0.04
20040415	2.18	0	1.04	0.91	0.6	0.61	0.01	0.375	0.72	2.44	1.1	0.63	5.7	5.1	6.9	0.01	0.04	0.14	0	0.07
20040421	4.79	0	2.14	2.9	3.26	1.1	0.01	0.375	1.72	4.43	0.88	0.95	16.9	18.8	16.15	0.17	0.07	0.07	0.01	0.17
20040427	2.01	0	0.96	-0.11	0.32	0.45	0.01	0.375	0.72	1.42	1.06	0.52	5.9	9	4.75	0.01	0.03	0.08	0	0.08
20040503	3.67	0	1.13	0.08	0.12	0.34	0.01	0.308	1.18	1.61	0.28	0.24		6.3	5.97	0.06	0.01	0.06	0	0.02
20040509	12.6	0	7.3	14.77	9.46	1.27	0.35	0.375	4.51	16.3	1.81	1.59	57.2	58	51.07	0.01	0.14	0.12	0.01	0.28
20040515	4.26	0	1.65	2.77	2.72	1.28	0.01	0.375	1.53	4.3	0.67	1.12	15.4	17.1	14.61	0.18	0.09	0.1	0.01	0.19
20040527	7.26	0	2.97	2.54	1.93	0.47	0.01	0.375	2.6	4.07	1.41	0.57	17.9	18.6	17.75	0.01	0.06	0.04	0	0.1
20040602	3.9	0	1.79	2.14	2.36	0.28	0.04	0.375	1.4	3.67	1.02	0.29	12.8	15.4	12.31	0.01	0.03	0.05	0	0.03
20040608	22.3	0	9.13	20.47	11	1.01	0.01	0.375	7.33	22	1.71	0.95	71.3	75.2	73.53	0.08	0.07	0.13	0.01	0.16
20040614	7.24	0	1.92	2.4	2.35	0.43	0.01	0.265	1.63	3.93	0.38	0.53	16.9	18.2	16.59	0.01	0.03	0.04	0	0.1
20040620	1.77	0	1.09	2.93	2.84	0.26	0.03	0.375	0.63	4.46	0.51	0.29	13	11.3	10.3	0.01	0.02	0.05	0	0.04
20040626	3.16	0	1.13	2.17	0.98	0.24	0.02	0.358	1.17	3.7	0.58	0.22	11.9	12	9.35	0.01	0.03	0.05	0	0.01
20040708	5.82	0	1.77	2.73	1.28	0.22	0.01	0.304	1.8	4.26	1.04	0.21	13.1	15.3	14.66	0.02	0.02	0.03	0	0.03
20040714	7.06	0	2.49	2.68	1.4	1	0.03	0.353	2.58	4.21	0.76	1.3	17	20	16.84	0.01	0.06	0.07	0.01	0.28
20040720	7.82	0	2.81	7.19	3.7	0.88	0.11	0.359	2.9	8.72	1.11	1.08	30.1	33	26.83	0.01	0.07	0.12	0.01	0.18
20040726	5.13	0	1.57	0.61	0.28	0.17	0.03	0.306	1.63	2.14	0.5	0.15	10.7	8.8	9	0.01	0.03	0.03	0	0.01
20040801	10.1	0	2.58	2.46	0.82	0.25	0.04	0.255	2.06	3.99	0.58	0.26	21.1	20.7	19.15	0.01	0.02	0.04	0	0.03
20040807	2.37	0	1.22	3.54	3.98	0.52	0.06	0.375	0.85	5.07	0.58	0.61	17.2	14	13.47	0.01	0.04	0.08	0.01	0.09
20040825	8.04	0	2.06	5.04	1.36	0.44	0.01	0.256	1.65	6.57	0.17	0.38	33.6	33.6	20.13	0.06	0.03	0.05	0	0.05
20040831	4.36	0	1.44	2	1.25	0.47	0.03	0.33	1.55	3.53	0.51	0.55	16.1	15.5	11.17	0.01	0.01	0.09	0	0.08
20040906	2.83	0	0.69	0.24	0.12	0.13	0.02	0.245	0.53	1.77	0.11	0.11	6.1	8.5	4.61	0.01	0.01	0.02	0	0.01
20040912	14.5	0	6.08	17.87	13.4			0.375	5.2	19.4	1.05		64.2							
20040918	0.91	0	0.13	-0.06	0.12	0.12	0.01	0.14	0.44	1.47	0.12	0.1	2.7	2.6	1.55	0.01	0	0.02	0	0.01
20040930	3.95	0	2.43	4.9	4.65	1.05	1.22	0.375	1.42	6.43	1.12	1.28	27.8	28.2	19.43	0.01	0.03	0.18	0	0.21
20041006	8.78	0	9.19	23.67	13.3	1	11.97	0.375	3.15	25.2	1.34	1.26	68.5	54.2	61.24	0.01	0.07	0.12	0	0.23
20041012	4.9	0.07	2.16	3.29	1.11	0.72	0.09	0.375	1.75	4.82	1.51	0.73	17.7	18.9	15.12	0.01	0.05	0.21	0.02	0.03
20041018	3.69	0.5	2.76	5.73	2.97	1.03	2.67	0.375	1.27	7.26	1.18	1.31	23.9	27.6	18.62	0.01	0.03	0.14	0	0.25
20041024	4.51	0	1.92	0.97	0.68	0.36	0.01	0.375	1.62	2.5	1.21	0.25	11.3	13.1	10.16	0.07	0.02	0.05	0	0.03
20041030	8.99	0	4.63	4.99	3.76	0.49	0.2	0.375	3.22	6.52	1.66	0.59	27.9	29.4	25.74	0.01	0.06	0.05	0	0.1
20041111	4.39	0	3.26	9.87	4.25	1.04	2.02	0.375	1.57	11.4	1.78	1.15	25.5	30.1	27.45	0.06	0.06	0.14	0	0.19
20041117	5.32	2.35	3.66	2.74	2.14	0.8	0.72	0.375	1.64	4.27	4.12	0.97	20.5	26.6	19.4	0.01	0.06	0.11	0.01	0.16
20041123	4.04	0.37	1.68	2.01	1.35	0.29	0.01	0.375	1.41	3.54	1.76	0.31	13.7	14.2	12.28	0.01	0.01	0.07	0	0.03

Speciation Data

DATE	SO4	NO3R	NH4	OCB	EC	CRUSTL	SALT	DON	H2O_AIM	OC	NO3	CRUSTL_ALT	FRM_MASS	MEAS_FM	RCFM	AL	CA	FE	TI	SI
20031006	1.88	0	0.75	1.81	0.57	0.32	0.01	0.375	0.67	3.34	0.73	0.32	7.7	8.5	6.95	0.01	0	0.09	0	0.03
20041129	2.38	1.25	1.46	2.4	0.92	0.56	0.05	0.375	0.72	3.93	2.13	0.6	11.2	11.6	10.86	0.01	0.02	0.16	0	0.05
20041205	2.35	1.66	1.54	2.15	0.43	0.4	0.03	0.375	0.7	3.68	2.95	0.43	10.8	11.7	10.88	0.01	0.05	0.08	0	0.04
20041211	1.43	0.17	0.53	-0.32	0.12	0.17	0.02	0.333	0.49	1.21	0.52	0.16	3.7	4.7	2.48	0.01	0	0.05	0	0.01
20041229	2.87	0.34	1.59	3.04	1.08	0.17	0.05	0.375	0.99	4.57	1.7	0.16	13.1	12.6	11.65	0.01	0.02	0.04	0	0.01

SO4 = Sulfate
NO3R = Retained Nitrate, calculated by EPA using PIT temp and relative humidity
NH4 = Ammonium (measured)
OCB = Organic Carbon (blank-adjusted)
EC = Elemental Carbon
CRUSTAL = Crustal Component, calculated from Al, Ca, Fe, Ti, Si
SALT = Salt (calculated)
DON = Degree of Neutralization
H2O_AIM = Particle Bound Water, calculated by AIM model
OC = Organic Carbon (measured)
NO3 = Nitrate (measured)
CRUSTAL_ALT = Crustal Component, alternate calculation without Al
FRM_MASS = Mass Concentration from FRM monitor
MEASURED_FM = Total Fine Mass from STN speciation monitor
RCFM = Reconstructed Fine Mass from speciation components
AL = Aluminum
CA = Calcium
FE = Iron
TI = Titanium
SI = Silicon

Allegheny County PM2.5 Monitors

CODES	DESCRIPTION
site	name
420030008	Lawrenceville
420030064	Liberty
420030067	South Fayette
420030093	North Park
420030095	Moon
420031008	Harrison
420031301	North Braddock
420033007	Clairton

dva_yyyyyyyy	Design Value Annual
dvd_yyyyyyyy	Design Value 24-Hour
meannf_yyyy	Annual Mean
meannfyyyyq#	Quarterly Mean
p98nf_1999	98th-Percentile Value

Annual Data

site	dva_19992001	dva_20002002	dva_20012003	dva_20022004	dva_20032005	dva_20042006	dva_20052007	dva_20062008
420030008	16.1	15.8	15.7	15.3	15.5	15.2	15.0	14.0
420030064	20.9	21.4	21.2	20.4	20.8	20.4	19.8	18.3
420030067	14.4	13.5	13.2	12.8	13.5	12.8	12.9	11.8
420030093	13.8	14.3	14.2	13.3	13.6	12.7	13.0	12.3
420030095	14.8	14.1	14.9	14.2	14.5	13.4	13.6	13.0
420031008	16.6	16.1	15.9	15.5	15.5	15.0	15.0	14.2
420031301	17.1	16.8	16.9	16.5	16.6	16.0	16.2	15.2
420033007	18.7	17.3	17.2	15.6	15.7	14.9	15.3	14.3

site	meannf_1999	meannf_2000	meannf_2001	meannf_2002	meannf_2003	meannf_2004	meannf_2005	meannf_2006	meannf_2007	meannf_2008
420030008	16.23165373	15.63451028	16.57670415	15.32727867	15.20448142	15.46384209	15.80102677	14.40169318	14.88952228	12.85450512
420030064	18.79815732	20.9155732	23.05205882	20.29561714	20.20623215	20.6638892	21.39775062	19.12675927	18.88099352	16.9990387
420030067	14.98348596	14.09087356	14.03587607	12.30900621	13.23470214	12.99671717	14.22008915	11.14352007	13.46853904	10.76625265
420030093	11.9875	14.48701923	14.86714692	13.63075092	13.9614881	12.28477273	14.44447844	11.50151099	13.02369048	
420030095	15.62791667	13.3765377	15.32836538	13.62617695	15.71053571	13.25682234	14.66712454	12.37678571	13.63569597	
420031008	17.45153984	16.09428418	16.10589515	16.0893702	15.50362835	15.01876271	15.95183908	14.0299828	15.06157407	13.39250597
420031301	17.69298007	16.44801058	17.09083516	16.92015736	16.79639652	15.79178205	17.12755305	15.02788462	16.56434414	14.09920898
420033007			18.65435897	16.00020147	17.02084821	13.7997619	16.36249084	14.48761905	15.10618132	13.32404762

site	meannf1999q1	meannf1999q2	meannf1999q3	meannf1999q4
420030008	11.08181818	22.63333333	17.47	13.74146341
420030064	16.4925	18.71132075	20.342	19.64680851
420030067		14.65238095	17.57307692	12.725
420030093	5.2	10.95	17.72	14.08
420030095	14.11666667	16.625	21.27	10.5
420031008	12.12142857	18.16923077	22.9875	16.528
420031301	15.88333333	15.7125	21.22608696	17.95
420033007				

site	meannf2000q1	meannf2000q2	meannf2000q3	meannf2000q4
420030008	14.4125	14.50909091	16.83333333	16.78311688
420030064	20.27840909	21.86478873	20.83837209	20.68072289
420030067	11.48947368	14.93913043	14.39642857	15.53846154
420030093	13.325	17.25	14.12307692	13.25
420030095	12.82222222	14.825	11.1875	14.67142857
420031008	15.22	17.10952381	16.3516129	15.696
420031301	15.984	14.71333333	17.61851852	17.47619048
420033007				

site	meannf2001q1	meannf2001q2	meannf2001q3	meannf2001q4
420030008	15.43953488	17.4032967	20.17865169	13.28533333
420030064	19.44823529	25.6	25.62111111	21.53888889
420030067	11.88461538	15.08333333	16.38666667	12.78888889
420030093	14.59090909	14.05625	16.85	13.97142857
420030095	13.375	17.85	16.93846154	13.15
420031008	14.48928571	18.03846154	18.32916667	13.56666667
420031301	15.704	19.45	17.47857143	15.73076923
420033007	14.53076923	21.77333333	20.58	17.73333333

site	meannf2002q1	meannf2002q2	meannf2002q3	meannf2002q4
420030008	12.36941176	16.1060241	19.82159091	13.01208791
420030064	18.14069767	22.05054945	25.16593407	15.82528736
420030067	9.214285714	12.12173913	17.48888889	10.41111111
420030093	10.57857143	14.51538462	20.13571429	9.293333333
420030095	10.33571429	15.56363636	17.6625	10.94285714
420031008	13.57419355	18.04285714	20.05333333	12.68709677
420031301	15.14666667	16.28888889	21.90714286	14.33793103
420033007	12.55	15.17333333	21.88461538	14.39285714

site	meannf2003q1	meannf2003q2	meannf2003q3	meannf2003q4
420030008	14.31547619	14.43444444	18.71022727	13.35777778
420030064	17.11162791	19.47032967	22.97666667	21.26630435
420030067	12.43076923	12.64285714	18.84210526	9.023076923
420030093	12.44166667	15.56428571	17.79	10.05
420030095	15.80833333	15.31666667	21.26	10.45714286
420031008	14.928	14.37777778	20.96206897	11.74666667
420031301	15.315	15.88571429	22.12333333	13.86153846
420033007	17.02666667	17.55714286	21.30625	12.19333333

site	meannf2004q1	meannf2004q2	meannf2004q3	meannf2004q4
420030008	12.68777778	14.89883721	21.65777778	12.61097561
420030064	16.68	20.71590909	26.30111111	18.95853659
420030067	10.21851852	12.65925926	18.7	10.40909091
420030093	7.933333333	12.60909091	18.14666667	10.45
420030095	9.461538462	12.77857143	19.85384615	10.93333333
420031008	13.45714286	13.3625	20.46129032	12.79411765
420031301	12.132	15.53076923	21.84666667	13.65769231
420033007	11.03846154	13.08571429	17.81333333	13.26153846

site	meannf2005q1	meannf2005q2	meannf2005q3	meannf2005q4
420030008	13.80337079	15.28555556	20.71630435	13.3988764
420030064	16.28409091	22.26444444	25.94130435	21.10116279
420030067	12.32307692	13.95	20.35172414	10.25555556
420030093	10.66153846	13.82727273	23.65833333	9.630769231
420030095	12.79285714	14.49230769	21.55	9.833333333
420031008	12.78666667	15.60344828	21.9	13.51724138
420031301	14.38965517	16.85862069	23.89655172	13.36538462
420033007	14.13333333	14.24615385	24.35714286	12.71333333

site	meannf2006q1	meannf2006q2	meannf2006q3	meannf2006q4
420030008	11.60117647	13.2752809	20.18901099	12.54130435
420030064	14.86352941	17.89333333	22.78275862	20.96741573
420030067	9.608695652	9.515384615	16.39285714	9.057142857
420030093	10.37142857	9.85	16.37692308	9.407692308
420030095	10.01538462	10.96923077	18.21538462	10.30714286
420031008	11.87407407	14.3	18.31785714	11.628
420031301	12.56153846	14.55	19.89310345	13.10689655
420033007	12.92666667	13.50666667	19.15714286	12.36

site	meannf2007q1	meannf2007q2	meannf2007q3	meannf2007q4
420030008	11.80352941	14.71860465	20.3	12.73595506
420030064	14.15795455	18.63666667	25.15824176	17.57111111
420030067	10.27894737	13.404	19.46428571	10.72692308
420030093	9.673333333	10.5	19.35	12.57142857
420030095	10.95714286	9.892307692	20.79333333	12.9
420031008	12.78518519	14.55185185	19.68333333	13.22592593
420031301	14.02142857	15.18148148	21.89677419	15.15769231
420033007	12.36428571	13.02857143	21.18571429	13.84615385

site	meannf2008q1	meannf2008q2	meannf2008q3	meannf2008q4
420030008	12.65842697	11.77159091	16.38470588	10.6032967
420030064	14.16333333	17.37888889	20.68202247	15.77191011
420030067	9.908	9.835714286	14.625	8.696296296
420030093				
420030095				
420031008	13.63076923	10.87142857	17.02	12.04782609
420031301	14.13461538	13.30384615	17.86551724	11.09285714
420033007	12.63571429	11.70714286	18.56666667	10.38666667

24-Hour Data

site	dvd_19992001	dvd_20002002	dvd_20012003	dvd_20022004	dvd_20032005	dvd_20042006	dvd_20052007	dvd_20062008
420030008	36	39	40	39	39	39	40	36
420030064	59	63	63	65	68	65	60	53
420030067	35	39	42	44	39	35	35	32
420030093	33	41	49	52	52	45	40	35
420030095	41	39	41	44	41	40	36	35
420031008	43	45	45	45	43	42	40	37
420031301	44	44	48	44	42	38	40	39
420033007	45	47	51	50	43	36	34	35

site	p98nf_1999	p98nf_2000	p98nf_2001	p98nf_2002	p98nf_2003	p98nf_2004	p98nf_2005	p98nf_2006	p98nf_2007	p98nf_2008
420030008	31.7	34.1	41.7	41.4	35.9	38.3	42.5	37.6	39.8	30.3
420030064	49.3	64.2	63.9	59.9	66.6	68.5	69.6	55.7	54.7	50.0
420030067	37.0	32.0	37.0	47.6	42.1	42.2	34.1	28.6	42.4	25.5
420030093	26.3	33.9	37.9	52.5	56.6	47.2	50.7	37.2	32.9	
420030095	54.2	31.1	38.4	46.2	38.6	46.6	37.0	36.7	32.8	
420031008	40.3	41.6	48.1	46.2	41.9	45.4	41.3	37.8	39.9	32.1
420031301	39.7	39.7	51.7	41.9	50.4	38.3	38.6	38.1	43.7	36.3
420033007			44.5	50.4	58.8	39.8	30.9	35.8	35.0	34.6

Inversion Analysis

Upper Air Soundings Information

Determine when inversions over 3 degrees occur

Record:
-date
-time
-start/ end temperatures
-altitude

Taken from: University of Wyoming, College of Engineering, Atmospheric Sciences

http://weather.uwyo.edu/upperair/sounding.html

Date	Inversion Value (deg C)	Liberty Filter (FRM) µg/m³	Altitude
1/14/2002	5.9	20.4	672
1/27/2002	5.4	61.2	892
1/28/2002	5.0	61.9	634
1/31/2002	8.0	11.1	1012
2/9/2002	6.3	30.2	724
2/14/2002	4.4	32.8	502
2/15/2002	3.2	38.3	881
2/19/2002	11.3	37.4	628
2/24/2002	5.0	37.1	455
2/25/2002	4.8	50.2	795
3/8/2002	7.4	32.6	575
3/13/2002	3.6	18.9	750
3/16/2002	6.0	10.9	896
3/28/2002	3.2	25.2	487
4/2/2002	4.0	16.1	652
4/7/2002	3.0	12.1	462
4/11/2002	6.2	10.7	754
4/12/2002	3.8	11.7	785
4/14/2002	5.2	19.5	532
4/16/2002	4.2	58.2	730
4/17/2002	5.6	61.5	592
4/24/2002	4.8	17.9	492
4/27/2002	4.4	11.7	551
5/4/2002	4.0	8.7	690
5/5/2002	5.0	31.3	764
5/6/2002	8.2	41.9	505
5/9/2002	3.0	19.4	767
5/11/2002	4.4	21.0	535
5/12/2002	5.6	24.1	819
5/16/2002	4.6	32.0	636
5/22/2002	6.8	48.6	482
5/23/2002	8.4	49.2	590
5/25/2002	4.0	24.5	1001

Inversion Analysis

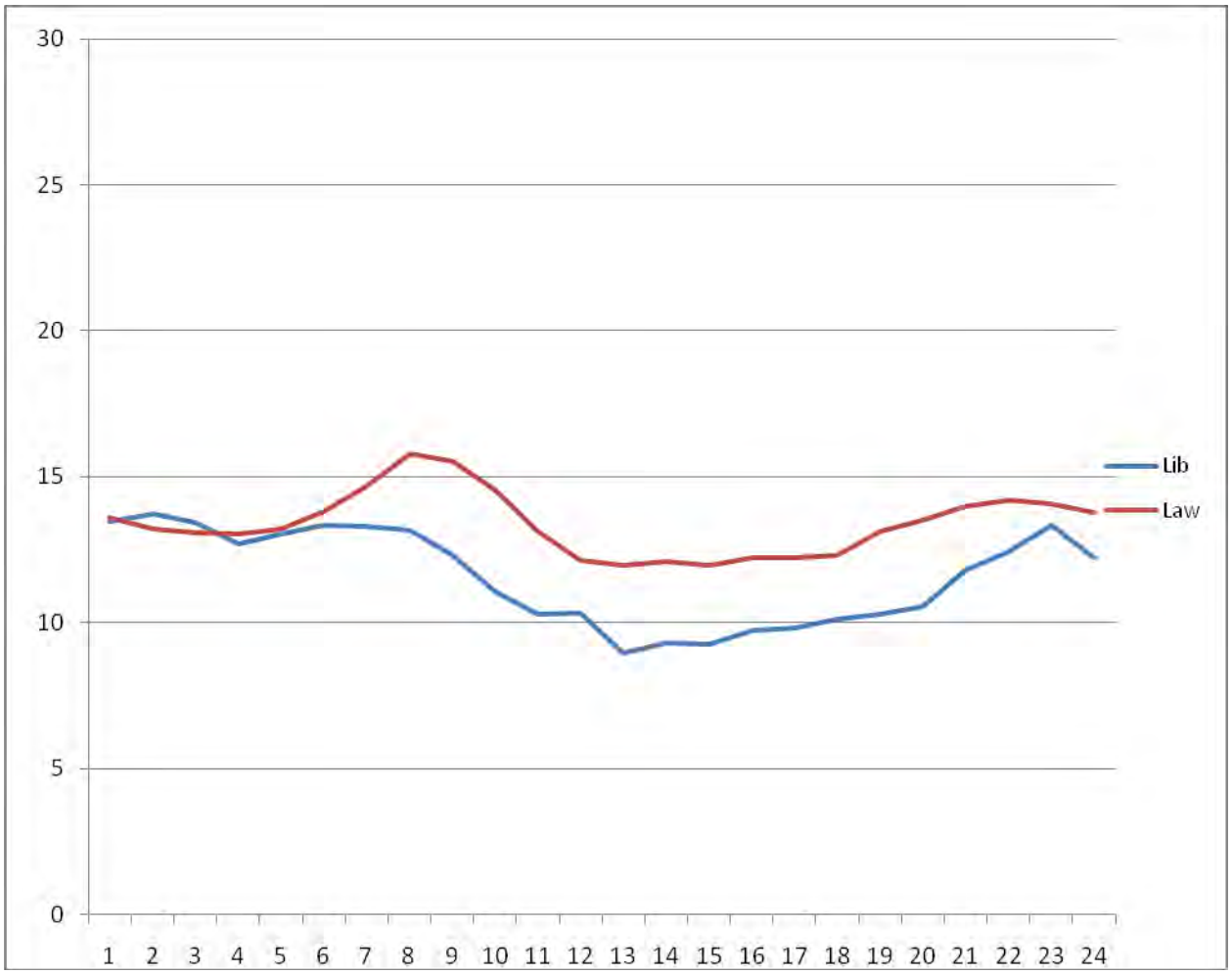
Date	Inversion Value (deg C)	Liberty Filter (FRM) µg/m³	Altitude
5/27/2002	8.6	26.8	551
5/28/2002	4.2	23.5	828
5/29/2002	5.2	18.4	605
5/30/2002	3.6	30.4	547
6/3/2002	3.2	14.5	435
6/4/2002	8.4	26.7	673
6/5/2002	3.8	22.7	680
6/8/2002	3.8	23.7	985
6/10/2002	4.8	60.0	610
6/17/2002	3.4	15.5	559
6/19/2002	7.6	17.6	741
6/20/2002	6.2	29.8	732
6/21/2002	5.8	33.6	654
6/22/2002	5.0	51.9	646
6/23/2002	4.4	49.4	665
6/24/2002	5.6	52.3	520
6/26/2002	3.4	58.2	541
6/29/2002	4.6	19.5	516
6/30/2002	6.0	52.9	655
7/1/2002	6.6	59.9	483
7/2/2002	3.1	50.3	610
7/4/2002	4.6	44.9	595
7/8/2002	8.6	51.6	579
7/9/2002	3.0	43.2	633
7/12/2002	6.2	8.7	586
7/15/2002	4.2	24.7	565
7/16/2002	3.6	33.6	638
7/17/2002	8.0	48.1	529
7/21/2002	6.4	54.7	511
7/22/2002	3.4	51.6	548
7/25/2002	3.4	12.5	610
8/2/2002	6.0	44.0	596
8/4/2002	8.4	36.2	715
8/7/2002	4.4	5.6	479
8/8/2002	4.6	7.2	497
8/10/2002	7.8	32.9	913
8/11/2002	8.4	69.6	843
8/13/2002	7.2	30.9	593
8/14/2002	5.4	37.6	551
8/21/2002	3.8	20.6	679
8/22/2002	7.2	37.0	660
8/30/2002	3.2	9.9	614
8/31/2002	4.4	7.9	550
9/2/2002	5.8	13.2	659
9/3/2002	3.6	32.6	630
9/4/2002	8.2	10.7	392
9/5/2002	4.2	17.3	480
9/6/2002	5.2	10.8	595
9/7/2002	9.6	8.5	717
9/8/2002	9.8	18.7	702
9/9/2002	10.8	36.4	646

Inversion Analysis

Date	Inversion Value (deg C)	Liberty Filter (FRM) µg/m³	Altitude
9/10/2002	9.0	63.4	565
9/12/2002	4.0	19.0	560
9/13/2002	10.0	36.4	610
9/14/2002	7.2	34.7	617
9/18/2002	7.6	25.3	651
9/19/2002	3.8	25.9	546
9/22/2002	3.0	20.7	499
9/24/2002	9.0	31.5	496
9/25/2002	8.4	11.0	601
9/29/2002	4.8	34.5	679
9/30/2002	6.6	34.7	585
10/1/2002	4.2	40.8	729
10/4/2002	3.4	21.7	621
10/6/2002	4.8	9.9	502
10/8/2002	3.4	6.7	560
10/9/2002	7.2	14.2	575
10/10/2002	4.4	16.7	470
10/14/2002	3.0	5.2	507
10/18/2002	5.7	17.6	553
10/20/2002	3.4	18.6	544
10/22/2002	9.1	35.9	649
11/3/2002	4.1	27.4	506
11/8/2002	6.4	25.7	1219
11/19/2002	5.4	29.1	587
11/20/2002	3.4	56.8	645
11/21/2002	3.4	50.2	610
11/25/2002	5.4	36.5	620
12/10/2002	4.8	49.5	455
12/11/2002	7.9	12.4	1011
12/30/2002	11.0	29.1	735

All Hourly 2002 Averages (in µg/m³) For Liberty and Lawrenceville, taken from 2002 TEOM data

Hourly 2002 Averages (in µg/m³), with Inversion Dates removed for Liberty (all Lawrenceville data kept)



LIBERTY HOURLY TEOM DATA 2002 (in µg/m³)

DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1/1/2002	10	10	10	9	10	11	12	14	16	13	10	5	7	9	8	7	9	10	15	14	17	15	13	12
1/2/2002	11	12	13	12	12	9	10	13	14	20	22	13	9	9	8	9	12	14	13	12	13	11	13	16
1/3/2002	43	48	38	18	24	16	37	75	62	49	34	19	3	4	7	5	4	6	10	12	11	8	5	7
1/4/2002	8	8	10	8	9	11	9	8	9	10	4	6	2	3	4	7	5	6	11	11	8	11	13	10
1/5/2002	12	11	11	12	11	9	13	12	13	13	9	10	11	13	11	12	13	16	16	11	14	16	13	33
1/6/2002	25	15	15	27	19	17	18	12	12	12	10	10	9	10	12	12	12	14	14	16	14	14	15	15
1/7/2002	16	16	15	9	7	9	10	6	2	0	0	0	5	8	5	2	4	2	6	5	6	4	6	5
1/8/2002	5	8	5	5	5	14	10	8	7	6		7	5	14	19	12	13	23	24	20	28	25	24	20
1/9/2002	18	29	24	8	9	10	10	9	13	14	12	5	5	8	8	7	16	17	18	16	14	15	11	13
1/10/2002		22	20	11	21	25	23	24	17	17	14	14	10	13	12	12	16	15	17	14	16	19	16	13
1/11/2002	14	13	14	7	10	12	8	4	6	6	4		6	5	3	4	5	4	2	3	5	6	5	4
1/12/2002	6	6	5	6	21	19	15	21	16	24	11	11	5	6	7	5	8	11	16	20	33	31	18	6
1/13/2002	5	3	4	3	5	4	5	5	6	7	3	1	1	2	1	1	3	5	4	4	4	10	26	48
1/14/2002	39	25	25	11	12	6	5	8	9	6	17	16	26	11	8	11	10	16	16	15	11	16	16	18
1/15/2002	18	7	4	4	4	5	6	6	6	6	1													
1/16/2002												39	19	22	20	17	14	15	10	14	10	7	9	11
1/17/2002	11	10	20	17	20	11	9	10	11	9	8	10	8	7	8	9	8	7	9	12	21	10	8	7
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Hourly TEOM Data for Liberty and Lawrenceville

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9/3/2002	31	28	26	26	25	29	30	34	31	32	32	28	23	28	19	19	20	23	33	30	14	17	19	7
9/4/2002	8	16	18	9	4	5	6	5	3	0	2	1	7	7	8	8	8	6	3	8	9	11	9	10
9/5/2002	9	9	10	9	10	13	14	11	9	8	11	10	12	11	11	13	15	14	14	15	16	15	14	13
9/6/2002	15	15	14	14	15	15	19	16	15	13	27	1	13	11	12	11	12	12	9			13	13	13
9/7/2002	11	11	11	11	12	13	13	15	12	10	9	15	14	12	19	17	9	7	10	14	20	13	17	
9/8/2002		14	14	15	16	17	19	20	20	17	13	16	21	16	17	14	15	15	30			23	20	18
9/9/2002	16	14	15	14	14	17	20	21	21	16	11	5	9	9	12	12	14	17	28	32	31	33		
9/10/2002	30	31	31	34	32	31	35	41	50	40	43	44	25	32	32	34	31	35	41	44	47	46	46	48
9/11/2002	47	33	15	8	0	0	0	22	44	24	17	14	11	9	8	7	9	9	7	6	6	5	4	3
9/12/2002	3	4	4	5	7	9	12	11	7	4	3	4	4	5	5	4	5	5	8	12	11	10	9	9

DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
9/13/2002	9	8	8	9	9	10	12	17	34	44	27	11	10	14	12	14	16	17	20	25	23	23	21	22
9/14/2002	22	21	22	23	23	25	26	29	28	27	29	32	29	29	33	31	35	11	4	7	9	11	9	8
9/15/2002	8	7	6	7	7	7	7	5	5	6	5	2	2	3	5	7	6	8	4	5	6	8	8	8
9/16/2002	9	9	13	14	14	14	16	20	22	24	28	25	25	22	20	18	19	21	23	22	23	23		
9/17/2002	19	18	17	17	18	20	17	16	18	13	10	8	14	16	15	17	11	15	21	21	23	21	21	18
9/18/2002	16	16	15	16	15	16	18	20	19	18	20	24												
9/19/2002																								
9/20/2002																								
9/21/2002																								
9/22/2002																								
9/23/2002							0		16	17	5	4	2	3	4	6	6	5	9	11	10	9	8	8
9/24/2002	8	7	7	7	7	8	12	18	21	27	17	9	8	8	10	9	9	8	10	12	15	14	12	10
9/25/2002	11	8	7	8	10	9	13	16	16	14	15	15	17	17	16	16	14	13	12	13	14	15	14	14
9/26/2002	13	10	9	9	9	12	15	14	13	13	15	14	9	9	10	8	7	6	6	3	4	2	2	1
9/27/2002	2	3	3	1	1	1	2	2	3	5	7	6	8	9	10	9	6	6	6	6	5	6	6	6
9/28/2002	6	6	6	6	7	8	8	9	12	17	21	24	26	27		26	27	27	35	34	35	37	31	31
9/29/2002	31	28	25	24	25	31	26	23	26	27	29	26	26	26	29	30	31	35	41	43	40	37	35	33
9/30/2002	32	31	31	32	31	32	34	41	44	42	31	24	1	15	19	20	21	22	24	29	27	27	30	32
10/1/2002	34	34	30	27	23	24	25	26	26	28	29	29	30	31	31	33	32	32	35	51	40	36	33	32
10/2/2002	33	34	32	33	34	36	38			36	29	27	28	7	9	15	18	24	27	22	25			29
10/3/2002	30	29	29	32	32	35	34	33	30	30	33	33		39	35	27	28	35	31	17	17	17	16	16
10/4/2002	15	12	10	12	12	16	20	34	28	26	19	18	17	23	25	25	29	33	35	37	23	13	12	9
10/5/2002	11	9	8	11	11	8	3	5	5	5	4	7	8	9	9	7	12	11	14	14	15	16	17	15
10/6/2002	13	13	12	13	12	11	12	14	5	3	4	7	8	9	13	16	15	16	16	18	18	18	20	19
10/7/2002	16	12	12	14	14	15	15	7	8	6	6	6	6			7	7	8	9	10	10	11	11	12
10/8/2002	11	11	13	13	11	13	12	17	7	4	4	4	4	2	7	7	7	8	13	13	14	14	13	12
10/9/2002	12	12	12	12	12	14	15	21	19	20	23	23	24	25	23	22	21	22	25	23	25	24	24	25
10/10/2002	24	24	24	24	24	24	26		19	17	16	19	36	28	20	11	8	10	9	7	4	5	5	4
10/11/2002	4	3	4	1	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2002	0	0	0	0	0	0	0	0	1	0	2	6	7	6	8	6	8	10	8	10	12	13	21	24
10/13/2002	21	15	15	15	18	10	6	6			0	0		0	0		0	1	4	5	4	2	1	1
10/14/2002	1	1	0			3	7	7	0	0	0	0	0	0	0	0	1	1	6	7	7	6	6	5
10/15/2002	4	4	4	3	3	3	4	10	5	1	1	3	4	4	6	5	3	4	5	4	6	5	3	1
10/16/2002	1	1	0	0	0	0	1	2	1	0	0	0	0	0	0	1	5	4	9	10	7	6	5	5
10/17/2002	4	5	2	3	2	1	1	4	1	0	1	3	0	3	4	2	4	2	5	3	6	8	8	8
10/18/2002	6	4	3	3	4	7	7	9	8			6	5	8	8	9	9	9	9	8	9	8	7	7
10/19/2002	9	7	4	5	5	4	6	7	6	6	7	7	7	7	9	10	7	3	6	7	7	7	5	5
10/20/2002	6	5	11	9	10	7	13	17	18	17	18		2	5	4	3	5	4	7	8	9	10	8	10
10/21/2002	8	9	9	10	14	13	12	12	8	7	4	5	4	4	5	6	7	11	14	11	13	14	13	11
10/22/2002	12	12	12	13	12	15	13	18	31	34	33	19	12	8	5	6	7	9	13	14	15	15	15	21
10/23/2002	20	21	18	11	10	12	13	19	15	11	10	7	5	7	7	10	10	11	12	12	10	5	8	7
10/24/2002	8	6	5	6	7	8	10	10	11	11	11	11	11	10	11	10	10	11	11	11	10	11	12	11
10/25/2002	12	11	11	11	12	12	12	13	12	12	13	13	11	11	11	9	11	10	9	6	7	6	10	8
10/26/2002	7	7	6	10	8	7	7	6	8	7	6	7	11	12	13	14	14	14	18	18	18	19	23	19
10/27/2002	19	19	19	20	21	20	16	17	16	10	11	11	12	10	11	11	13	15	13	14	15	15	18	14
10/28/2002	13	14	14	14	16	13	9	12	12	11	10	6	4	3	3	4	3	4	5	4	6	5	4	3
10/29/2002	3	4	3	4	3	3	3	4	3	4	4	8	5	3	3	3	5	2	1	0	1	0	0	0
10/30/2002			0	0	0	0	0	1	1	1	2	1	1	1	3	3	3	2	3	3	4	3	2	3
10/31/2002	5	5	4	5	5	6	9	14					16	13	13	16	18	16	15	16	20	19	16	15
11/1/2002	17	18	16	16	13	14	16	14	14	11	11	10	9	8	7	9	8	9	9	9	8	9	9	9
11/2/2002	8	8	8	8	10	10	10	10	9	7	5	4	3	5	5	6	7	10	12	12	12	14	14	12
11/3/2002	13	14	14	12	12	13	14	15	15	12	10	9	9	12	11	10	10	10	13	15	15	17	17	17
11/4/2002	11	10	9	9	10	11	11	12	12	12	11	11	11	12	12	12	11	12	11	12	14	13	15	15
11/5/2002	16	16	17	15	16	16	16	16	12	11	13	12	11	10	10	14	14	11	10	7	3	3	5	6
11/6/2002	7	9	12	10	6	6	6	8	8	9	5	5	8	11	12	14	16	14	15	15	13	12	11	10
11/7/2002	10	11	12	14	15	16	17	18	11	10	10	9	7	10	14	16	17	20	21	18	18	17	17	16
11/8/2002	16	16	16	16	15	15	15	16	14	13	11	6	5	5	6	5	7	7	7	7	9	14	13	13
11/9/2002	13	8	8	11	6	5	5	7	8	10	9	9	8	8	9	8	8	10	11	8	10	10	9	11
11/10/2002	9	9	10	9	10	8	9	10	11	11	8	4	2	2	3	5	5	4	6	8	7	8	12	5
11/11/2002	3	5	4	4	7	6	8	9	11	8	14	14	12	11	13	15	14	15	14	15	18	18	13	12
11/12/2002	11	11	11	11	10	9	12	12	12	13	12	12	11	11	10	11	11	13	14	14	14	15	9	3
11/13/2002	3	5	6	7	8	7	6	8	9	7	8	6	7	7	9	9	10	10	13	13	11	11	12	12
11/14/2002	13	12	13	11	12	11	11	12	11	11	11	8			9	11	10	10	9	10	10	13	9	8

Hourly TEOM Data for Liberty and Lawrenceville

DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
11/15/2002	8	8	8	8	8	9	11	12	13	14	13	12	12	12	13	11	14	13	16	14	13	13	12	11
11/16/2002	10	11	10	8	9	11	10	12	10	7	5	6	7	7	9	11	11	11	9	9	6	6	4	4
11/17/2002	2	2	2	1	2	2	2	2	4	3	5	2	2	3	4	4	7	11	6	8	7	6	6	5
11/18/2002	7	5	6	6	8	8	10	9	8	8	7	7	6	8	8	10	10	10	10	10	10	14	17	16
11/19/2002	15	16	14	14	12	12	14	20	21	15	12	8	10	13	13	12	13	13	14	15	16	19	19	21
11/20/2002	20	18	19	18	20	17	16	25	26	16	11	7	4	6	6	5	9	13	15	16	15	16	17	17
11/21/2002	15	17	18	18	20	18	20	19	18	16	13	13	17	14	13	15	18	19	21	16	17	21	17	19
11/22/2002	19	10	3	1	5	5	5	6	8	7	6	5	4	4			5	3	3	3	5	3	4	7
11/23/2002	5	3	4	4	4	4	5	4	6	6	5	5	6	7	6	8	5	7	7	7	8	9	8	8
11/24/2002	9	10	11	9	9	9	10	12	11	12	12	8	5	6	5	7	7	8	12	15	14	15	15	14
11/25/2002	15	16	15	14	17	16	22	25	31	35	26	12	10	14	18	18	11	10	7	6	7	6	6	6
11/26/2002	5	6	8	9	9	8	10	13	18	11	4	2	2	4	6	6	10	6			8	6	8	5
11/27/2002	4	2	3	3	3	4	6	6	4	1	0	0	0	2	3	1	3	3	3	3	3	5	7	9
11/28/2002	8	5	4	4	6	6	6	5	5	6	6	4	4	5	6	6	7	8	8	8	7	7	7	7
11/29/2002	7	6	7	6	7	7	7	8	7	6	4	2	4	5	5	5	6	6	5	4	5	5	4	3
11/30/2002	4	4	4	4	3	2	2	0	0	1	2	0	3	4	3	7	4	2	4	5	3	1	3	0
12/1/2002	1	4	3	0	0	2	2	2	0	1	1	0	0	1	0	3	3	2	3	3	2	4	7	7
12/2/2002	7	6	6	5	6	6	8	7	8	7	6	6	8	9	8	8	12	11	12	14	13	5	4	3
12/3/2002	3	4	4	4	4	5	6	7	5	3	2	2	1	2	3	4	5	4	6	8	9	10	10	10
12/4/2002	11	14	15	15	11	11	12	16	18	21	12	6		0	5	4	4	5	4	4	2	1	1	0
12/5/2002	0	0	2	0	0	0	0	0	0	1	1	0	1	1	4	5	6	6	7	9	7	7	8	8
12/6/2002	7	4	3	2	3	3	4	7	8	6	4	3	3	4	4	4	7	5	3	5	5	6	6	7
12/7/2002	6	5	5	4	4	4	4	4	3	3	2	1	3	3	5	6	6	7	7	7	6	6	5	6
12/8/2002	6	7	8	7	8	7	9	9	9	8	8	6	4	6	5	3	4	2	1	2	1	0	0	0
12/9/2002	1	0	0	0	0	2	7	5	10	5	0	0	0	0	0	0	0	2	4	8	6	6	6	5
12/10/2002	5	7	7	6	7	9	11	13	19	22	28	30	13	10	9	10	9	11	13	12	12	13	12	13
12/11/2002	11	12	10	7	5	4	6	5	6	7	0	0	0	0	0	0	0	1	1	2	7	6		0
12/12/2002	1	1	2	2	2	2	2	3					23	18	16	15	15	17	15	14	14	15	14	12
12/13/2002	12	14	14	13	9	11	8	5	7	5	7	3	2	3	4	4	4	2	0			0	0	0
12/14/2002	0	0	0	0	0	1	1	0	0	4	1	1	0	3	4	5	9	10	13	9	6	6	6	4
12/15/2002	4	5	7	5	5	5	5	5	7	8	8	6	7	7	8	7	7	7	7	8	9	11	13	11
12/16/2002	9	5	7	2	1	0	1	1	2	1	0	0	0	2	5	7	4	4	5	7	7	5	4	5
12/17/2002	4	5	3	3	5	8	9	7	13	11	8	6	8	9	10	12	10	9	7	6	5	4	6	5
12/18/2002	3	4	4	2	4	5	7	8		11	9	10	10	10	11	11	11	13	14	13	14	14	13	11
12/19/2002	12	12	13	12	13	13	15	15	19	20	14	6	4	5	4	2	5	9	9	11	7	11	8	7
12/20/2002	10	7	4	3	4	4	2	5	4	7	6	4	4	5	6	5	6	5	7	8	5	2	2	2
12/21/2002	2	3	3	3	4	4	4	5	5	5	5	4	4	3	3	3	3		1	1	1	2	3	2
12/22/2002	1	2	1	2	2	3	4	7	5	4	4	4	5	7	8	7	8	7	6	6	6	8	6	6
12/23/2002	8	9	8	8	9	8	8	7	6	5	4	2	3	4	4	5	4	6	6	7	5	7	6	7
12/24/2002	6	6	7	7	6	7	9	10	10	7	6	4	3	4	6	7	6	6	8	7	5	5	5	5
12/25/2002	3	2	2	1	2	3	1	3	4	6	5	4	6	10	11	12	11	5	5	5	5	5	5	5
12/26/2002	3	3	4	4	4	5	7	7	7	6	5	5	5	8	10	10	13	13	12	11	10			10
12/27/2002	11	12	13	13	11	12	12	13	15	14	15	14	14	13	18	18	19	20	21	20	18	18	19	21
12/28/2002	19	18	17	16	16	16	17	17	17	17	16	13	13	15	16	15	14	15	16	15	13	12	14	14
12/29/2002	15	16	17	13	15	16	14	17	17	19	19	18	19	18	25	22	22	24	23	21	23	22	23	23
12/30/2002	26	21	21	20		20	23	25	27	28	28	25	29	35	31	25	19	20	14	8	13	8	9	9
12/31/2002	9	9	7	3	6	6	9	6	9	6	8	6	7	7	10	11	12	13	8	9	10	9	12	7

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: IYY

QUICKLOOK CRITERIA PARAMETERS

Report Request ID: 687394 Report Code: AMP450 Oct. 25, 2009

GEOGRAPHIC SELECTIONS

Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region	Method	Duration	Begin Date	End Date
	42	003		88101	1										

SELECTED OPTIONS

Option Type	Option Value
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES

SORT ORDER

Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	COUNTY_CODE
4	SITE_ID
5	POC
6	DATES
7	EDT_ID

SCR GROUP SELECTIONS

Allegheny Co, PA

GLOBAL DATES

Start Date	End Date
1999	2009

Oct. 25, 2009

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
3	EXCEPTIONAL EVENTS EXCLUDED
4	NATURAL EVENTS EXCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED
6	EXCEPTIONAL EVENTS WITH CONCURRENCE EXCLUDED
7	NATURAL EVENTS WITH CONCURRENCE EXCLUDED

Note: The * indicates that the mean does not satisfy summary criteria.

Oct. 25, 2009

PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	1999	118	75	62.2	31.7	31.5	30.2	31.7	16.23*		0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2000	118	255	37.1	35.5	35.3	35.1	34.1	15.63*		0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2001	118	341	54.2	49.4	47.7	46.0	41.7	16.58		0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2002	118	347	54.4	51.7	48.4	45.1	41.4	15.33	Y	0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2003	118	352	63.9	59.2	41.0	39.5	35.9	15.20	Y	0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2004	118	348	52.1	47.4	44.1	43.9	38.3	15.46	Y	0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2005	118	358	60.5	60.4	53.8	48.1	42.5	15.82	Y	0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2006	118	357	55.1	51.5	49.3	43.1	37.6	14.40	Y	0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2007	118	341	50.7	47.7	45.9	45.7	39.8	14.89		0
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2008	118	352	39.7	38.3	35.2	34.6	30.3	12.87		5
42-003-0008	1	0021	Pittsburgh	Allegheny	BAPC 301 39TH STREET BLDG #7	2009	118	173	27.6	26.0	25.9	23.7	23.7	11.95*		0

Note: The * indicates that the mean does not satisfy summary criteria.

Oct. 25, 2009

PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-0021	1	0021	Pittsburgh	Allegheny	GLADSTONE HIGH SCHOOL	1999	118	82	64.3	39.1	38.8	35.2	39.1	16.57*		0
42-003-0021	1	0021	Pittsburgh	Allegheny	GLADSTONE HIGH SCHOOL	2000	118	99	35.0	33.7	33.1	32.9	33.7	14.85*		0
42-003-0021	1	0021	Pittsburgh	Allegheny	GLADSTONE HIGH SCHOOL	2001	118	108	57.0	56.3	40.7	40.7	56.3	15.81*		0
42-003-0021	1	0021	Pittsburgh	Allegheny	GLADSTONE HIGH SCHOOL	2002	118	115	49.0	43.3	40.2	36.2	40.2	14.55	Y	0
42-003-0021	1	0021	Pittsburgh	Allegheny	GLADSTONE HIGH SCHOOL	2003	118	108	54.9	40.0	30.7	28.1	30.7	14.56	Y	0
42-003-0021	1	0021	Pittsburgh	Allegheny	GLADSTONE HIGH SCHOOL	2004	118	108	53.8	44.6	39.7	36.4	39.7	14.10	Y	0
42-003-0021	1	0021	Pittsburgh	Allegheny	GLADSTONE HIGH SCHOOL	2005	118	112	57.7	38.3	35.1	34.7	35.1	15.35	Y	0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	1999	118	190	60.5	58.4	58.0	49.3	49.3	18.80*		0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2000	118	328	78.5	71.1	70.2	68.6	64.2	20.92		0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2001	118	337	98.6	90.2	81.0	71.9	63.9	23.05		0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2002	118	355	69.6	63.4	62.6	61.9	59.9	20.30	Y	0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2003	118	359	101.7	85.2	80.4	76.1	66.6	20.21	Y	0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2004	118	350	94.0	82.2	71.5	71.3	68.5	20.66	Y	0

Note: The * indicates that the mean does not satisfy summary criteria.

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PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2005	118	355	100.3	84.9	83.1	77.8	69.6	21.41	Y	0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2006	118	345	100.7	82.1	68.0	60.6	58.4	19.03	Y	0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2007	118	359	61.7	58.7	58.7	58.0	54.7	18.88		0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2008	118	358	70.8	66.9	63.2	62.7	50.0	17.00		0
42-003-0064	1	0021	Liberty	Allegheny	2743 Washington Blvd	2009	118	172	54.8	42.2	40.3	35.1	35.1	14.35*		0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	1999	118	71	56.4	37.0	28.6	28.0	37.0	14.98*		0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2000	118	83	34.2	32.0	32.0	30.7	32.0	14.09*		0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2001	118	98	50.5	37.0	32.6	32.4	37.0	14.04*		0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2002	118	105	49.7	47.6	37.0	31.6	47.6	12.31*	Y	0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2003	118	99	52.0	42.1	37.7	29.9	42.1	13.23*	Y	0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2004	118	101	47.2	42.2	35.6	30.3	42.2	13.00*	Y	0

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PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2005	118	110	48.9	37.0	34.1	32.8	34.1	14.22	Y	0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2006	118	98	29.3	28.6	28.0	27.8	28.6	11.14*	Y	0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2007	118	98	43.6	42.4	40.7	37.6	42.4	13.47*		0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2008	118	108	30.8	30.5	25.5	24.7	25.5	10.77		0
42-003-0067	1	0021	Not in a city	Allegheny	OLD OAKDALE ROAD, SOUTH FAYETTE	2009	118	52	23.6	20.1	19.2	17.3	20.1	9.88*		0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	1999	118	17	26.3	22.4	20.8	20.5	26.3	11.99*		0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2000	118	43	33.9	32.8	31.7	29.7	33.9	14.49*		0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2001	118	48	37.9	36.0	35.0	33.4	37.9	14.87*		0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2002	118	56	57.9	52.5	29.4	25.4	52.5	13.63	Y	0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2003	118	50	56.6	30.5	26.6	26.1	56.6	13.96*	Y	0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2004	118	48	47.2	43.6	32.7	31.7	47.2	12.28*	Y	0

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PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2005	118	49	50.7	41.3	27.8	25.4	50.7	14.44*	Y	0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2006	118	46	37.2	28.6	27.2	20.0	37.2	11.50*	Y	0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2007	118	55	39.6	32.9	28.7	27.5	32.9	13.02		0
42-003-0093	1	0021	McCandless Township	Allegheny	PEARCE MILL ROAD NORTH PARK	2009	118	26	20.2	13.5	13.5	13.2	20.2	9.35*		0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	1999	118	27	54.2	30.3	29.0	25.9	54.2	15.63*		0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2000	118	36	31.1	27.5	25.5	22.4	31.1	13.38*		0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2001	118	45	38.4	31.7	30.2	30.1	38.4	15.33*		0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2002	118	55	50.0	46.2	30.2	29.3	46.2	13.63*	Y	0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2003	118	53	53.7	38.6	30.2	28.3	38.6	15.71	Y	0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2004	118	52	46.7	46.6	31.0	30.2	46.6	13.26	Y	0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2005	118	56	45.2	37.0	27.9	27.7	37.0	14.67	Y	0

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PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2006	118	53	47.2	36.7	36.6	29.3	36.7	12.38	Y	0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2007	118	56	40.7	32.8	28.8	28.2	32.8	13.64		0
42-003-0095	1	0021	Coraopolis	Allegheny	1000 BEAVER GRADE RD CORAOPOLIS PA	2009	118	24	19.6	14.3	14.2	14.0	19.6	9.74*		0
42-003-0097	1	0021	Not in a city	Allegheny	BEAVER ROAD LEETSDALE	1999	118	18	46.8	25.9	25.2	24.5	46.8	21.20*		0
42-003-0097	1	0021	Not in a city	Allegheny	BEAVER ROAD LEETSDALE	2000	118	38	39.3	32.2	27.3	27.0	39.3	15.22*		0
42-003-0116	1	0021	Stowe (Township of)	Allegheny	405 WHEELER AVE, MCKEES ROCKS, PA 15132	1999	118	84	60.1	50.0	34.2	32.8	50.0	16.99*		0
42-003-0116	1	0021	Stowe (Township of)	Allegheny	405 WHEELER AVE, MCKEES ROCKS, PA 15132	2000	118	94	35.7	33.2	32.0	31.3	33.2	15.39*		0
42-003-0116	1	0021	Stowe (Township of)	Allegheny	405 WHEELER AVE, MCKEES ROCKS, PA 15132	2001	118	107	53.2	51.7	44.5	37.6	51.7	15.59*		0
42-003-0116	1	0021	Stowe (Township of)	Allegheny	405 WHEELER AVE, MCKEES ROCKS, PA 15132	2002	118	107	40.5	38.4	36.4	33.1	38.4	14.20	Y	0
42-003-0116	1	0021	Stowe (Township of)	Allegheny	405 WHEELER AVE, MCKEES ROCKS, PA 15132	2003	118	108	59.9	45.9	42.9	37.8	42.9	15.28	Y	0

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PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-0116	1	0021	Stowe (Township of)	Allegheny	405 WHEELER AVE, MCKEES ROCKS, PA 15132	2004	118	112	57.6	47.9	45.5	40.4	45.5	14.68*	Y	0
42-003-0116	1	0021	Stowe (Township of)	Allegheny	405 WHEELER AVE, MCKEES ROCKS, PA 15132	2005	118	106	54.8	44.1	39.3	33.5	39.3	16.15	Y	0
42-003-0131	1	0021	Not in a city	Allegheny	WAVE POOL,SOUTH PARK, SOUTH PARK TWP, PA	1999	118	25	67.4	36.0	33.4	31.4	67.4	17.93*		0
42-003-0131	1	0021	Not in a city	Allegheny	WAVE POOL,SOUTH PARK, SOUTH PARK TWP, PA	2000	118	48	36.4	33.2	32.7	31.7	36.4	14.48*		0
42-003-0131	1	0021	Not in a city	Allegheny	WAVE POOL,SOUTH PARK, SOUTH PARK TWP, PA	2001	118	50	40.6	35.3	33.3	32.2	40.6	14.85*		0
42-003-0131	1	0021	Not in a city	Allegheny	WAVE POOL,SOUTH PARK, SOUTH PARK TWP, PA	2002	118	51	48.6	33.0	27.3	25.5	33.0	13.51	Y	0
42-003-0131	1	0021	Not in a city	Allegheny	WAVE POOL,SOUTH PARK, SOUTH PARK TWP, PA	2003	118	6	16.2	12.1	11.4	10.7	16.2	9.98*	Y	0
42-003-0133	1	0021	Elizabeth	Allegheny	5118 DORRIS DRIVE, ELIZABETH	2003	118	49	53.9	35.6	29.9	28.9	53.9	14.44	Y	0
42-003-0133	1	0021	Elizabeth	Allegheny	5118 DORRIS DRIVE,	2004	118	58	61.1	36.1	35.6	33.5	36.1	13.52	Y	0

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PM2.5 - Local Conditions (88101) Pennsylvania Micrograms/cubic meter (LC) (105)

24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
					ELIZABETH											
42-003-0133	1	0021	Elizabeth	Allegheny	5118 DORRIS DRIVE, ELIZABETH	2005	118	49	27.7	27.3	25.6	25.1	27.7	14.04	Y	0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	1999	118	81	70.8	40.3	40.3	39.6	40.3	17.45*		0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2000	118	102	42.4	41.6	38.4	37.1	41.6	16.09*		0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2001	118	99	60.2	48.1	39.9	38.9	48.1	16.11*		0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2002	118	120	57.0	53.3	46.2	41.9	46.2	16.09	Y	0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2003	118	111	55.9	44.5	41.9	36.5	41.9	15.50	Y	0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2004	118	85	49.4	45.4	38.5	36.9	45.4	15.02*	Y	0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2005	118	118	50.8	41.5	41.3	37.8	41.3	15.95	Y	0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2006	118	103	44.4	38.9	37.8	31.3	37.8	14.03	Y	0
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2007	118	111	51.8	43.9	39.9	38.4	39.9	15.06		0
42-003-1008	1	0021	Harrison	Allegheny	PACIFIC &	2008	118	107	41.3	39.2	32.1	31.4	32.1	13.39		0

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24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
			Township		IDAHO AVE, NATRONA											
42-003-1008	1	0021	Harrison Township	Allegheny	PACIFIC & IDAHO AVE, NATRONA	2009	118	52	25.7	25.2	25.1	24.1	25.2	12.67*		0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	1999	118	79	68.9	39.7	38.8	36.1	39.7	17.69*		0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2000	118	88	40.8	39.7	36.9	36.5	39.7	16.45*		0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2001	118	109	57.2	51.7	44.7	41.7	51.7	17.09*		0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2002	118	114	59.3	42.2	41.9	41.3	41.9	16.92	Y	0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2003	118	104	65.3	50.4	38.3	36.0	50.4	16.80*	Y	0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2004	118	107	54.8	44.2	38.3	37.0	38.3	15.79	Y	0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2005	118	111	60.9	39.6	38.6	37.0	38.6	17.16	Y	0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2006	118	104	41.5	40.0	38.1	36.4	38.1	15.03	Y	0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2007	118	110	50.0	47.0	43.7	43.1	43.7	16.38		0

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24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2008	118	105	38.4	37.3	36.3	36.2	36.3	14.15		0
42-003-1301	1	0021	North Braddock	Allegheny	600 ANDERSON ST, N. BRADDOCK	2009	118	53	30.7	23.3	20.8	20.0	23.3	11.83*		0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2001	118	55	47.2	44.5	37.9	36.5	44.5	18.65*		0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2002	118	56	51.6	50.4	39.8	37.5	50.4	16.00	Y	0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2003	118	60	59.3	58.8	37.0	30.7	58.8	17.02	Y	0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2004	118	55	43.2	39.8	36.2	33.1	39.8	13.80	Y	0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2005	118	57	57.3	30.9	29.1	27.6	30.9	16.36	Y	0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2006	118	59	38.7	35.8	29.1	28.4	35.8	14.49	Y	0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2007	118	55	40.4	35.0	31.8	30.0	35.0	15.11		0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2008	118	58	40.6	34.6	30.7	29.3	34.6	13.32		0
42-003-3007	1	0021	Clairton	Allegheny	501 Waddell Ave	2009	118	25	20.4	20.3	19.3	15.0	20.4	10.73*		0
42-003-9002	1	0021	Springdale	Allegheny	SPRINGDALE JR HIGH, COLFAX & BUTLER	1999	118	43	72.8	38.0	34.2	31.5	72.8	16.48*		0
42-003-9002	1	0021	Springdale	Allegheny	SPRINGDALE JR HIGH, COLFAX & BUTLER	2000	118	51	33.4	32.8	32.6	32.0	33.4	14.76		0
42-003-9002	1	0021	Springdale	Allegheny	SPRINGDALE JR HIGH, COLFAX	2001	118	51	41.9	33.4	32.7	32.6	41.9	14.84*		0

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24-HOUR

SITE ID	POC	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH PERCENTILE VALUE	WTD ARITH MEAN	CERT	EDT
					& BUTLER											
42-003-9002	1	0021	Springdale	Allegheny	SPRINGDALE JR HIGH, COLFAX & BUTLER	2002	118	55	56.7	52.8	34.3	28.8	52.8	13.92*	Y	0
42-003-9002	1	0021	Springdale	Allegheny	SPRINGDALE JR HIGH, COLFAX & BUTLER	2003	118	57	58.6	33.4	31.0	29.1	33.4	15.95	Y	0
42-003-9002	1	0021	Springdale	Allegheny	SPRINGDALE JR HIGH, COLFAX & BUTLER	2004	118	57	45.6	41.4	32.3	32.2	41.4	12.49	Y	0
42-003-9002	1	0021	Springdale	Allegheny	SPRINGDALE JR HIGH, COLFAX & BUTLER	2005	118	55	50.6	38.8	27.9	26.1	38.8	14.88	Y	0

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Oct. 25, 2009

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
88101	118	R & P Model 2025 PM2.5 Sequential w/WINS	GRAVIMETRIC

Note: The * indicates that the mean does not satisfy summary criteria.

Oct. 25, 2009

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0021	Allegheny County,PA Health Department

Note: The * indicates that the mean does not satisfy summary criteria.

$PM_{2.5}$ SIP

Appendix B

RACT Analysis by Source

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This appendix includes RACT/RACM analysis for sources within the Liberty-Clairton area. Emissions were based on 2006 inventories and future 2014 equipment at U. S. Steel Clairton Works.

Major Sources

US Steel Clairton Works
Koppers
Mid-Continent Coal and Coke (formerly major source)

Synthetic Minor Sources

Pennsylvania Electric Coil
Durabond

Minor Sources

Mon Valley Transportation Center (now closed)
AKJ Industries

Other

Area
Mobile

US Steel Clairton Coke Works

Point #	Seg #	U. S. Steel Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
		Battery C fugitives									
		Charging	PROven System (Pressure Regulated Oven) neg. pressure on Main & Slight positive pressure on Ovens, Screw Feed Larry Car With Drop Sleeves, Electronic Controls of Individual Ovens for Each Coking Stage, Stage Charging, Auto Lid Lifters, & Sealed Holes			<12 Sec.Visibles /Charge			V.E. Method 303 Daily		
		Door Leaks	PROven System Reduces Door Leaks & Improves Seals to Convey Emissions to Main, neg. pressure on Main, Diligent Operating and Maintenance Practices, <2.5% Leaks, PLD; <8% Door Areas V.E.or 40% Opacity Anytime/Oven			FLEXZED Sealing System on Doors For Adjusting to Varying Door Body & Chamber Frame Contours, Prevents Air Infiltration, Sealing Doors & Jambs, Cleaning & Maintenance			V.E. Door Leaks Reduced by PROven System, V.E. Method 303 Daily		
		Topside Leaks	PROven System Reduces Lids, Offtakes Leaks, & Collection Main, neg. pressure on Main, Diligent Operating and Maintenance Practices, <0.4% Lid & 1.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Luting & Joint Sealing			V.E. Lids & Offtakes Leaks Reduced by PROven System, V.E. Method 303 Daily		
		Soaking	PROven System Reduces Soaking Seal Leaks Between Oven and Collector Main			Green Coke Occurence Reduced by PROven System			Operate According to Work Practice Plan, Part 63 Subpart CCCCC		
		Decarbonizing	Results of Carbon Burned to CO 14% Less CO	95							
1		**Battery #1 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<3.8% Leaks, PLD; <10% Door Areas V.E.or 40% Opacity Anytime/Oven			Sealing Doors & Jambs, Maintenance			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Joint Sealing			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
2		**Battery #2 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<3.8% Leaks, PLD; <10% Door Areas V.E.or 40% Opacity Anytime/Oven			Sealing Doors & Jambs, Maintenance			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Joint Sealing			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
3		**Battery #3 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<3.8% Leaks, PLD; <10% Door Areas V.E.or 40% Opacity Anytime/Oven			Sealing Doors & Jambs, Maintenance			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Joint Sealing			V.E. Method 303 Daily		

Point #	Seg #	U. S. Steel Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
	5	Soaking									
	6	Decarbonizing									
7		**Battery #13 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<3.8% Leaks, PLD; <10% Door Areas V.E.or 40% Opacity Anytime/Oven			Sealing Doors & Jambs, Maintenance			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Joint Sealing			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
8		**Battery #14 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<3.8% Leaks, PLD; <10% Door Areas V.E.or 40% Opacity Anytime/Oven			Sealing Doors & Jambs, Maintenance			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Joint Sealing			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
9		**Battery #15 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, Sealed Holes, & Three Rounds Refractory Repair			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<3.8% Leaks, PLD; <10% Door Areas V.E.or 40% Opacity Anytime/Oven			Sealing Doors & Jambs, Maintenance, Three Round Refractory Repair			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Joint Sealing, Three Round Refractory Repair			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
10		**Battery #19 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<3.8% Leaks, PLD;<8% Door Areas V.E.or 40% Opacity Anytime/Oven			Big Plug Doors, Sealing Doors & Jambs, Maintenance,Advanced Patching			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <2% Charge Ports or Port Seals; V.E.For <5% Offtake Piping			Joint Sealing, Advanced Patching			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
11		**Battery #20 fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		

Point #	Seg #	U. S. Steel Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
	2	Door Leaks	<3.8% Leaks, PLD; <5% Door Areas V.E.or 40% Opacity Anytime/Oven			Big Plug Doors, Sealing Doors & Jambs, Maintenance, Advanced Patching			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <1% Charge Ports or Port Seals; V.E.For <4% Offtake Piping			Joint Sealing, Advanced Patching			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
12		**Battery B fugitives**									
	1	Charging	Stage Charging, Volumetric Controls, Steam Aspirators, Auto Lid Lifters, Dual Collector Main, & Sealed Holes			<V.E. 55 Sec./5 Charges,12 Sec.Visibles /Charge			V.E. Method 303 Daily		
	2	Door Leaks	<4.3% Leaks, PLD; <5% Door Areas V.E.or 40% Opacity Anytime/Oven			Sealing Doors & Jambs, Maintenance			V.E. Method 303 Daily		
	4	Topside Leaks	<0.4% Lid & 2.5% Offtake Leaks, PLL; V.E.For <1% Charge Ports or Port Seals; V.E.For <4% Offtake Piping			Joint Sealing			V.E. Method 303 Daily		
	5	Soaking									
	6	Decarbonizing									
		Battery Underfiring									
		Battery C Stack	Desulfurized COG Used, NOx CEMS, <0.009 grs. PT/dscf exhaust, Continuous Opacity Monitor, Opacity 20% @ 3min., 60%@anytime; Daily Opacity 15% Normal Coke Cycle, Daily 20%, Part 63 Subpart CCCCC.			New Ovens Have Significantly Less Raw COG Leakage Reducing Emissions of SO_2, PM2.5, NO_x, VOC & CO. & PROven System Keeps Low Oven Pressure, Pre-Stressing of Batt. Walls, & Oven Wall Maintenance			Less COG Needed / Ton of Coke. This Reduces All COG Emissions From C Batt. Stack, Staged Combustion Air Underfiring Reduces NOx, VOC, & CO		
13		Battery #1 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance			Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
14		Battery #2 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance			Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
15		Battery #3 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance			Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
19		Battery #13 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance			Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
20		Battery #14 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance			Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
21		Battery #15 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance			Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
22		Battery #19 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance & Replacement, Revitalization Plan			WOBBE Stabilizer,Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
23		Battery #20 Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance & Replacement, Revitalization Plan			WOBBE Stabilizer,Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		

Point #	Seg #	U. S. Steel Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
24		Battery B Stack	Desulfurized COG Used; NOx CEMS; <0.015 grs.PT/dscf exhaust; COM, Opacity 20%@3min.,60%@anytime			Oven Wall Maintenance			Staged Underfiring; <500 ppm dry vol. SO_2 in Outlet		
		PEC System, Batt. C									
		PEC Baghouse	New Pulse Jet Baghouse; PEC Maintained & Operated	99.684	90	(See PEC Fugitives)			<0.005 gr.PT/dscf Outlet; <0.02 lb.PT/Ton of Coke at Outlet, Part 63 Subpart CCCCC; & <20% V.E. at PEC Outlet Anytime		
		Traveling Hot Car	PEC Hood Over Coke Push of New Larger Hot Car, Uncovered Car Travel (With Fewer Trips, Shorter Distance, & Smaller Car Surface Area / Volume Ratio), <10% V.E. Anytime								
		PEC Fugitives	PEC Moveable Hood Integral to Door Machine for Pushing	0.001	90						
		Uncontrolled Pushing									
		Ball Mill									
25		**PEC System, Batt. 1-3**									
		PEC Baghouse	Pulse Jet Baghouse (5 Module), Belco; PEC Maintained & Operated	99.435		(See PEC Fugitives)			<0.040 lb./Ton of Coke at Outlet & <20% V.E. at PEC Outlet Anytime		
		Traveling Hot Car	<10% V.E. Anytime								
		PEC Fugitives	PEC Traveling Hood for Pushing + Fans Upgrade	0.001	88						
		Uncontrolled Pushing									
		Ball Mill									
27		**PEC System, Batt. 13-15**									
		PEC Baghouse	Pulse Jet Baghouse (5 Module), Belco; PEC Maintained & Operated	99.435		(See PEC Fugitives)			<0.040 lb./Ton of Coke at Outlet & <20% V.E. at PEC Outlet Anytime		
		Traveling Hot Car	<10% V.E. Anytime								
		PEC Fugitives	PEC Traveling Hood for Pushing + Fans Upgrade	0.001	88						
		Uncontrolled Pushing									
		Ball Mill									
28		**PEC System, Batt. 19-20**									
		PEC Baghouse	Pulse Jet Baghouse (5 Module), Belco; PEC Maintained & Operated	99.531		(See PEC Fugitives)			<0.010 gr.PT/dscf Batt #19 Outlets, <0.04 lb.PT/Ton of Coke Batt #20 Outlets, & <20% V.E. at PEC Outlets for Batt #19 & 20 Anytime		
		Traveling Hot Car	<10% V.E. Anytime								
		PEC Fugitives	PEC Traveling Hood for Pushing + Fans Upgrade	0.001	88						
		Uncontrolled Pushing									
		Ball Mill									

Point #	Seg #	U. S. Steel Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
29		**PEC System, Battery B**									
		PEC Baghouse	Pulse Jet Baghouse (12 Modules+ 2 Standby), Mikropul; PEC Maintained & Operated	88.84		(See PEC Fugitives)			<0.040 lb./Ton of Coke at Outlet & <20% V.E. at PEC Outlet Anytime		
		Traveling Hot Car	PEC Secondary Shed Hood			<10% V.E. Anytime					
		PEC Fugitives	PEC Sheds Hood for Pushing	0.001	95						
		Uncontrolled Pushing									
		Ball Mill									
		Quenching									
		Quench Tower C	Double Baffles, New Extra Tall Tower Height, Extra Exit Area; <5% Area Open to Sky, Part 63 Subpart CCCCC; & Below Baffles Second Mist Supression Spray (LEQ), Proper Maintenance, & Other Work Practices	71.82	100	Article XXI, §2105.21.g, Quenching; Larger Quench Sump for Better Settling & Cleaner Recycle Water, Rake to Remove Solids			Auxiliary Tower for Batt. C is Quench Tower B		
30		Quench Tower 1	Double Baffles, Normal Tower Height, & Proper Maintenance	71.82	100	Article XXI, §2105.21.g, Quenching					
33		Quench Tower #5A	Double Baffles, New Extra Tall Tower Height, Extra Exit Area; <5% Area Open to Sky, Part 63 Subpart CCCCC; & Below Baffles Second Mist Supression Spray (LEQ), Proper Maintenance, & Other Work Practices	71.82	100	Article XXI, §2105.21.g, Quenching; Larger Quench Sump for Better Settling & Cleaner Recycle Water, Rake to Remove Solids					
32		Quench Tower #7A	Double Baffles, New Extra Tall Tower Height, Extra Exit Area; <5% Area Open to Sky, Part 63 Subpart CCCCC; & Below Baffles Second Mist Supression Spray (LEQ), Proper Maintenance, & Other Work Practices	71.82	100	Article XXI, §2105.21.g, Quenching; Larger Quench Sump for Better Settling & Cleaner Recycle Water, Rake to Remove Solids					
34		Quench Tower B	Single Baffles, Normal Tower Height, & Proper Maintenance	71.82	100	Article XXI, §2105.21.g, Quenching					
		Boiler #1									
35		COG	NOx CEMS, <0.02 lbs.PT/10^6 BTU Input			COG <40 gr H_2S/100 dscf (Batts. 13-15, 19-20, B); COG <34 gr H2S/100 dscf (C, D Batts.)			<0.54 lb.NOx/MMBtu & <1740 Tons NOx/yr		
36		NG									
		Boiler #2									
38		COG	NOx CEMS, <0.02 lbs.PT/10^6 BTU Input			COG <40 gr H_2S/100 dscf (Batts. 13-15, 19-20, B); COG <34 gr H2S/100 dscf (C, D Batts.)			<0.54 lb.NOx/MMBtu & <1285 Tons NOx/yr		
39		NG									
		Boiler R-1									
47		COG	<0.02 lbs.PT/10^6 BTU Input			COG <40 gr H_2S/100 dscf (Batts. 13-15, 19-20, B); COG <34 gr H2S/100 dscf (C, D Batts.)			<0.54 lb.NOx/MMBtu & <525 Tons NOx/yr		
49		NG									

Point #	Seg #	U. S. Steel Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
		Boiler R-2									
49		COG	<0.02 lbs.PT/10^6 BTU Input			COG <40 gr H_2S/100 dscf (Batts. 13-15, 19-20, B); COG <34 gr H2S/100 dscf (C, D Batts.)			<0.54 lb.NOx/MMBtu & <525 Tons NOx/yr		
50		NG									
		Boiler T-1									
51		COG	<0.02 lbs.PT/10^6 BTU Input or Alternate <0.120 PM-10/10^6 BTU			COG <40 gr H_2S/100 dscf (Batts. 13-15, 19-20, B); COG <34 gr H2S/100 dscf (C, D Batts.)			<0.54 lb.NOx/MMBtu & <358 Tons NOx/yr		
52		NG									
		Boiler T-2									
53		COG	<0.02 lbs.PT/10^6 BTU Input or Alternate <0.120 PM-10/10^6 BTU			COG <40 gr H_2S/100 dscf (Batts. 13-15, 19-20, B); COG <34 gr H2S/100 dscf (C, D Batts.)			<0.54 lb.NOx/MMBtu & <358 Tons NOx/yr		
54		NG									
		BY-PRODUCT PLANT									
55		Tar/Flushing Liquor Decanters	LDAR for VHAP			Part 61 Subpart V					
56		F.L. Circ / Surge Tanks	LDAR for VHAP			Part 61 Subpart L					
57		Tar Storage / Separator Tanks	LDAR for VHAP			Part 61 Subpart L					
58		Weir Tank / Intercept Sump	LDAR for VHAP			Part 61 Subpart V					
59		Final Cooler Sump	Condenser	98		LDAR for VHAP			Part 61 Subpart V		
60		F.L. Pumphouse Sumps	LDAR for VHAP			Part 61 Subpart V					
61		Equip. Leaks / Sample Connections	LDAR for VHAP			Part 61 Subpart V					
62		Tar Collecting Tanks	LDAR for VHAP			Part 61 Subpart L					
		MATERIAL HANDLING									
63		#1 Unloader	Opacity, & NSPS Subparts A & Y								
		#2 Unloader	Opacity, & NSPS Subparts A & Y								
64		Pedestal Crane									
65		Clamshell Unloader									
65A		Boom Conveyor									
	1	Front End Loader to Truck									
	2	Truck to Hopper									
	3	Hopper to Conveyor	Enclosure Hood at 8.28% Moisture	50							
	4	Conveyor to Barge									
66		Coal Transfer for Conveyor & Tower Drops	Deflector Plates, Hoppers & Chutes at 6.46% Moisture			Opacity <20%@ 3min.,<60% @Anytime					
67	1	#1 Pulverizer - Primary	Enclosed Feed Chutes	50		Dust Suppressant Prior to Entry	92				
	2	#1 Pulverizer - Secondary	Enclosed Feed Chutes	50		Dust Suppressant Prior to Entry	92				
68	1	#2 Pulverizer - Primary	Enclosed Feed Chutes	50		Dust Suppressant Prior to Entry	92				
	2	#2 Pulverizer - Secondary	Direct Feed Chute & Distribution Plough, Enclosed Feed Chutes	50		Dust Suppressant Prior to Entry	92				
69		Coal Storage,Bins#1&2/Bunkers1,5,7&B									
70		Coal Storage, Pile Erosion									
71		Coke Transfer: B, C	Surfactant Dust Suppressant								
72		Coke Transfer: 13-15, 19-20									
73		Coke Pile, Load/Unload									
74	1	#1 Screening Station 1-3	Enclosure	50		Feed Conveyors Covered					
	2	#1 Screening Station Loadout	Enclosure Hood	50							

Point #	Seg #	U. S. Steel Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
75	1	#2 Screening Station 13-15, 19-20	Enclosure	50							
	2	#2 Screening Station Loadout	Enclosure Hood	50							
		#4 Screening Station B & C Baghouse	New Pulse Jet Baghouse - B & C	98.9		(See Screening Fugitives-B&C)					
		#4 Screening Station B & C Loadout	Enclosure Hood	50							
		#4 Screening Fugitives - B & C	Hoods, & Enclosure	50	85						
77		Coke Pile Erosion									
		MISCELLANEOUS									
78		Blasting - Black Beauty	Enclosure	50		Opacity					
79	1	Roads - Paved	Street Sweeping	90							
	2	Roads - Unpaved	Dust Suppressant	90							
80		Heavy Duty Motor Vehicles									
81		Tug Boat Exhaust									
82		**Facility Maintenance**									
	1	Safety-Kleen Parts Washer									
	2	Paints and Thinners									
83		SCOT Stack	Afterburner	98		LDAR for VHAP			H_2S CEM		
84		Cooling Tower, Induced Crossflow	Normal Mist Eliminator	98	100						
85		Flaring	Enclosed Flare at 1925°F	98		Part 63 Subpart L, Part 61 Subpart V					
86		Aeration Basins - WWTP									
87		**Methanol Usage**									
	1	Air Lines									
	2	Winter Lid Slurry									
	3	Storage Tanks									
88		WWT Surge Tank, Ammonia Flare	Flare at 1925°F	98		<2920 Hrs. WWT Opertion/yr.					
89		Ammonia Tanker Loading, Flare	(See WWT Surge Tank, Ammonia Flare)			<1400 Hrs. Operation/yr.					
90		COG Venting	Enclosed Flare For Abnormal COG By-Pass, (Part 63 Subpart L)	98							
91		Light Oil Collecting and Storage Tanks	Gas Blanketing System	98		LDAR for VHAP			Part 61 Subpart L		
92		Light Oil Barge Loading	Vapor Balancing System			LDAR for VHAP			Part 63 Subpart Y, Part 61 Subpart L		
93		Light Oil Decanters	LDAR for VHAP			Part 61 Subpart L, Part 61 Subpart V					
		Regenerator Stone Cleaning	Opacity <20% @3 min., 60% Anytime								

Koppers Industries Inc.-Clairton Plant

Point #	Seg #	Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
1		**Tar Refining**									
	1	TAR REFINING PROCESS	PROCESS HEATERS (8)/ USX, Temp.1200°F	95	100	BLANKET GAS BE1 CHILLER & SEPARATORS	60.15	100	NAT'L GAS BLANKETED TANKS & nc PRES. RELIEFS for TANKS V113, 8, 9, V110 & column ejectors 1T1, (2T4)+(TI), 2D5, 2T1, & 1T2	0.001	100
	2	TAR REFINING FUGITIVES	LDAR for FUGITIVES, Part 61 Subparts L & V	90	100						
2		Rod Pitch Process									
	1	MANUFACTURING	PULSEJET BAGHOUSE-LOW TEMP. <180°F for Pitch Cooler & Dryer	99	100						
	2	Fugitives									
3	1	2T1 Hot Oil Heater,2F-1B	Opacity <20% @ 3min., 60% Anytime								
	2	**1T2 Hot Oil Heater (Spare), 1F-1C**	Opacity <20% @ 3min., 60% Anytime								
4	1	2T2 Primary Heater, 2F-1A	Opacity <20% @ 3min., 60% Anytime								
5	1	TI Heater, 2F-2A	Opacity <20% @ 3min., 60% Anytime								
6	1	1T1 Hot Oil Heater, 1F-1B idle	Opacity <20% @ 3min., 60% Anytime								
7	1	2T4 Hot Oil Heater, 1F-2C	Opacity <20% @ 3min., 60% Anytime								
8	1	2D5 Secondary Heater, 2F-1C	Opacity <20% @ 3min., 60% Anytime								
	2	Prill Hot Oil Heater	Opacity <20% @ 3min., 60% Anytime								
9	1	**Petroleum Pitch RAILCARS Depress.**									
10		Transportation									
	1	Gasoline Vehicle Exhaust	Limit Truck Idling, & Vehicle Turnover								
	2	Diesel Vehicle Exhaust	Truck & Heavy Vehicle Retrofits, Limit Idling, & Vehicle Turnover								
	3	Paved Roads	DUST SUPPRES.-WATER SPRAYS	70	100						
	4	Unpaved Roads	DUST SUPPRES.-WATER SPRAYS	70	100						
11		Loading Losses									
	1	**Liquid Loading**									
	2	Rod Pitch Loading									
20		Creosote Process	THERMAL OXIDIZER [1] Temp.1400°F	99	100						
25		Soil/Vapor Recovery									
26		Cooling Tower									
28		Heaters (8) Blanket Gas VOC Only Combustion (See Refining)									

Mid-Continent Coal and Coke Co.

Point #	Seg #	Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
1		**Transfer Points**									
	1	Breeze Conveyor	V.E. <20%@3min.,&60%@ anytime								
	2	Screen#1outfall	V.E. <20%@3min.,&60%@ anytime								
	3	Screen#2outfall	V.E. <20%@3min.,&60%@ anytime								
	4	Conveyor Outfall	V.E. <20%@3min.,&60%@ anytime								
	5	Small Pile	V.E. <20%@3min.,&60%@ anytime								
	6	Buckwheat Pile	V.E. <20%@3min.,&60%@ anytime								
	7	**Coke Breeze**	V.E. <20%@3min.,&60%@ anytime								
2		Screens									
	1	Screen 1	Enclosure								
	2	Screen 2	Enclosure								
	3	Screen 3	Enclosure								
3		Wind Erosion									
	1	Wind Erosion									
4		**Storage Piles**									
	1	Storage Piles(0.814% Moisture)	Dust Suppressant	70							
5		Road Emissions									
	1	Trucks	V.E. <20%@3min.,&60%@ anytime								
	2	970F Loader	V.E. <20%@3min.,&60%@ anytime								
	3	950E Loader	V.E. <20%@3min.,&60%@ anytime								
	4	**950B Loader**	V.E. <20%@3min.,&60%@ anytime								
6	1	Diesel Fuel	<= 0.05% Sulfur Content	75							

Durabond

Point #	Seg #	Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
1		**FUSION BOND PROCESS**									
	1	FUSION BOND AIR WASH									
2		EXTRUSION PROCESS(X-TEC)									
	1	X-TEC OIL HEATER									
	2	XTEC WB BH STACK	Baghouse	90	90						
3		FUSION BOND OVEN 1									
4		FUSION BOND OVEN 2									
5		FUSION BOND OVEN 3									
6		FUSION BOND WB-1 BH STACK	Baghouse	90	90						
7		FUSION BOND WB-2 BH STACK	Baghouse	90	90						
8		FUSION BOND DRYING OVEN									
9		GASOLINE STORAGE TANK	Consevation Vent	75	100						
10		DIESEL STORAGE TANK									
11		ROAD EMISSIONS									
	1	ROAD DUST (Haul Trucks)	Watering	50	50						
	3	ROAD DUST (Forklifts)	Watering	50	50						
	2	FORKLIFT EMISSIONS (Diesel)	Catalytic Retrofit & Spark Adjust.	95	98						

Pennsylvania Electric Coil

Point #	Seg #	Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
A03		**Large Bake Oven**									
	1	Natural Gas Combustion	Opacity < 20%@3min.,60% anytime								
	2	Coating Evaporation	Opacity < 20%@3min.,60% anytime								
A04		Small Bake Oven									
	1	Natural Gas Combustion	Opacity < 20%@3min.,60% anytime								
	2	Coating Evaporation	Opacity < 20%@3min.,60% anytime								
A09	1	Abrasive Blasting	Baghouse, low temp.	99	99	Opacity<20%@3min.,60% anytime					
A10	1	**Paint Spray Booth**	Fabric Filters	99	100	Opacity<20%@3min.,60% anytime					
A14		Coil Manufacturing, Oven, 3 units									
	1	Natural Gas Combustion	Opacity < 20%@3min.,60% anytime								
	2	Coating Evaporation	Opacity < 20%@3min.,60% anytime								
A15		Skin/Tin Area									
	1	Tinning Process	Blast Baghouse, low temp.& Hood	98.4	100	Opacity<20%@3min.,60% anytime					
	2	Natural Gas Combustion	Opacity < 20%@3min.,60% anytime								
A16	1	**Gas Insulator**	Opacity < 20%@3min.,60% anytime								
A17	1	Coil Pressing Area	Opacity < 20%@3min.,60% anytime								
A18	1	Cleaning of Motor Parts	Opacity < 20%@3min.,60% anytime								
D03	1	U-372 Storage Area	Conservation Vent								
D04	1	U-475 Storage Area	Conservation Vent								
D05	1	TSR-601 Varnish Tank	Conservation Vent								
D06	1	B7-373 Resin Storage Tank	Conservation Vent								
D07	1	**B7-619 Resin Storage Tank**	Conservation Vent								
G08	1	Miscellaneous Fugitive Emissions									
I02	1	Boiler	Opacity < 20%@3min.,60% anytime								
I03	1	Gas Radient Space Heaters	Opacity < 20%@3min.,60% anytime								
P01		Small Burnoff Oven									
	1	Coating Evaporation	Afterburner for Fume	99	100				Precleaning Material		
	2	Natural Gas Combustion	Opacity < 20%@3min.,60% anytime								
P02		Large Burnoff Oven									
	1	Coating Evaporation	Afterburner for Fume	99	100				Precleaning Material		
	2	Natural Gas Combustion	Opacity < 20%@3min.,60% anytime								

Mon Valley Transportation Center

Point #	Seg #	Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
		Material Handling Process									
P	1	Rail Car (Bottom) Unloading									
	1a	Rail Car (Bottom Dump) to Hopper	Water Sprays	50	70						
	1b	Hopper Conveyor #1									
	1c	Dock Conveyor #2	Covered Conveyor	95	90						
P	2	Dock #2 Barge Loading									
	2a	**Dock #2 Barge Conveyor**	Covered Conveyor	95	90						
	2b	Dock #2 Drop Sleeve	Drop Sleeve	99	95						
P	3	Dock #3 Barge Unloading									
	3a	Dock #3 Barge Unloading Transfer									
	3b	Dock #3 Hopper Conveyor #1	Covered Conveyor	95	90						
	3c	Dock #3 Conveyor #2	Covered Conveyor	95	90						
P	4	Dock #2 Bin Transfer Station									
P	5	Dock #1 Barge Unloading									
	5a	Dock #1 Barge Unloading Transfer (Crane or Stick Excavator) + Hopper									
	5b	Dock #1 Conveyor #1	Covered Conveyor	95	90						
	5c	Dock #1 Conveyor #2	Covered Conveyor	95	90						
P	6	Pet Coke Screening									
P	6a	Pet Coke Screening + Conveyor Fugitives	Covered Conveyor	50	70						
	6b	Pet Coke Screening Loadout	Drop Sleeve	50	70						
		Fugitive Emssions									
F		Storage Piles									
F	2	Ground Storage Stockpiles Loadout	Water Sprays	50	70						
F		Wind Erosion									
F	3	Wind Erosion	Water Sprays	90	95						
F		Road Emissions									
F	1	Trucks	Dust Supressant or Water Sprays	95	95						
			Dust Supressant or Water Sprays	95	95						
			Dust Supressant or Water Sprays	95	95						
			Dust Supressant or Water Sprays	95	95						
C	1	Diesel Fuel	Catalytic Retrofit & Spark Ajustment	99	98						

AKJ Industries

Point #	Seg #	Emission Source Unit Description	Final Emis. Control Equip. (1)	Control % Effic. (1)	Capture % Effic. (1)	Secondary Emis. Control Equip. (2)	Control % Effic. (2)	Capture % Effic. (2)	Tertiary Emis. Control Equip. (3)	Control % Effic. (3)	Capture % Effic. (3)
1		**Unit#1 Coal Tar Waste Sludge Process**									
	1	Unit#1 Batch Mixer (Sludge/Diluent+Dispersant)	Flat Closed Lid, & Conservation Vent								
	2	Unit#1 Product Storage Tank (Fixed Roof)	Conservation Vent								
2		Unit#2 Coal Tar Waste Sludge Process									
	1	Unit#2 Batch Mixer (Sludge/Diluent+Dispersant)	Flat Closed Lid, & Conservation Vent								

Area and Mobile

Emission Source					
Unit Description		Possible Control			Notes
Mobile Sources					
	diesel trucks	retrofit with filters			A truck company serving US Steel Clairton is voluntarily being retrofitted with filters of DOCs
					A truck company serving naerby US Steel Edgar Thomson is voluntarily being retrofitted with filters of DOCs
	diesel school buses	upgrade or retrofit with filters			School districts have been offered freee retrofits. Many have purchased newer 2007-compliant buses.
Area Sources					
	Woodstoves	replace older stoves with newer 1990 compliant stoves			In 2005-2007 ACHD participated in EPA's woodstove exchange program, replacing 175 stoves in southwest PA.

$PM_{2.5}$ SIP

Appendix C

Model Protocol for Liberty-Clairton

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$PM_{2.5}$ Model Protocol

Liberty-Clairton Nonattainment Area

Allegheny County Health Department
Air Quality Program

October 15, 2007

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1.0 OVERVIEW

This section explains the official designations for particulate matter 2.5 microns or less ($PM_{2.5}$) in Allegheny County and need to carry out an attainment demonstration for the Liberty-Clairton Nonattainment Area according to this protocol. Stakeholders for the $PM_{2.5}$ protocol are also discussed.

1.1 $PM_{2.5}$ Designations

EPA issued final $PM_{2.5}$ area designations on December 17, 2004, which became final on April 5, 2005.

Designations for $PM_{2.5}$ were based on several factors, including 2001-2003 monitored data, proximity to metropolitan areas, census populations, types of emissions, and others. Five counties in the Pittsburgh metropolitan area (MSA)[1] and portions of adjacent counties were designated as the Pittsburgh-Beaver Valley nonattainment area. Additionally, the Liberty-Clairton area was designated as a separate area within Allegheny County.

The Liberty-Clairton Area includes the Boroughs of Glassport, Liberty, Lincoln, Port Vue, and the City of Clairton. Appendix A provides maps of the Southwestern PA designation areas, including close-ups of the Liberty-Clairton Area.

1.2 Stakeholders

The PA Dept. of Environmental Protection (DEP) will model the Pittsburgh-Beaver Valley nonattainment area, while the Allegheny County Health Department (ACHD) will model the Liberty-Clairton Area. A final attainment demonstration for the Liberty-Clairton Area will be submitted to the PA DEP, on behalf of the ACHD, for submittal to the U.S. Environmental Protection Agency (EPA) Region 3 office.

All contractual assistance for the development of Liberty-Clairton Area modeling will be under the direction of the ACHD. ACHD staff, the ACHD Criteria Subcommittee (subcommittee of the Air Advisory Committee), and the ACHD $PM_{2.5}$ Modeling Workgroup have participated in the development of this protocol.

The Criteria Subcommittee members include persons from industry, environmental advocacy organizations, environmental consultation companies, and the general public.

Sullivan Environmental Inc. has been selected as the meteorological consultant for this modeling demonstration. Additional support for the dispersion modeling has not been contracted at the time of this protocol.

[1] The Pittsburgh Metropolitan Statistical Area (MSA) encompasses Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland counties, according to the U.S. Census Bureau, November 2004.

2.0 PROBLEM STATEMENT

This section explains the nature of the $PM_{2.5}$ problem and provides a conceptual design for the Liberty-Clairton Area. Monitored data results are also given.

2.1 Modeling Area

The Liberty-Clairton Area is made up of complex river valley terrain, approximately 3 miles wide by 5 miles long. It includes a 4-mile winding portion of the Monongahela River and is bordered by the Youghiogheny River to the east. The area includes rural land, densely populated residential areas, and industrial facilities.

River valleys lie at 718 feet in elevation (MSL), while adjacent hilltops can be greater than 1250 feet. Large temperature differences can be seen between hilltop and valley floor observations (e.g. 2 to 7° F) during clear, low-wind, nighttime conditions. Strong nighttime drainage flows can cause differences of up to 180° in wind direction with 3-4 mph downward flows. Also, strong nighttime inversions can lead to poor dispersion scenarios on several days of the year.

The Liberty-Clairton Area is presumably impacted by regional, urban excess, and localized $PM_{2.5}$. Source apportionment results based on speciated data can be found in the report *Allegheny County PM2.5 Source Apportionment Results using the Positive Matrix Factorization Model (PMF Version 1.1).*[2]

2.2 Monitored Data

The Federal Reference Method (FRM) $PM_{2.5}$ monitor at Liberty is located atop a school at high elevation near the center of the Liberty-Clairton area. The FRM monitor at Clairton is located atop a school at low elevation in the western portion of the area. Both are violating the annual $PM_{2.5}$ standard of 15 µg/m³. The Liberty monitor is also in violation of the 24-hour standard of 65 µg/m³. FRM monitors located to the west and to the south of the area have monitored attainment of both standards. Appendix B contains details of monitor sites and data.

Results from the Liberty $PM_{2.5}$ speciation monitor show that carbons, ammonia, and some trace elements are higher in the Liberty-Clairton Area than in other monitored areas by 4 to 5 µg/m³. An in-depth analysis of speciated $PM_{2.5}$ components in Allegheny County can be found in the report *$PM_{2.5}$ Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results.*[3]

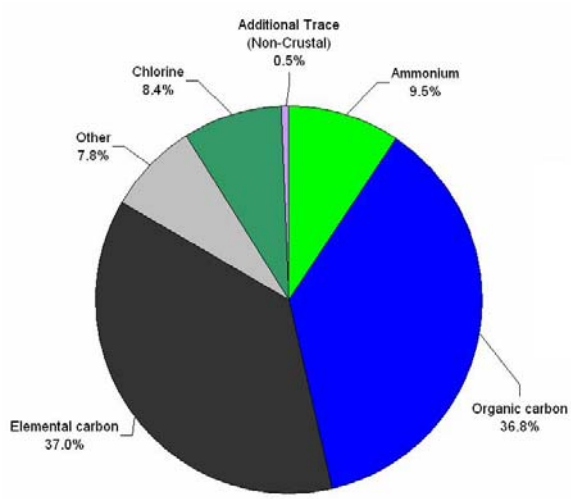


Figure 2.2. Liberty $PM_{2.5}$ Excess Species Pie Chart

[2] Report can be found online at http://www.achd.net/airqual/pubs/pdf/pmf0106.pdf
[3] Report can be found online at http://www.achd.net/airqual/pubs/pdf/speciation_report.pdf

3.0 SELECTION CRITERIA

This section outlines the models, the species of $PM_{2.5,}$ and the years to be modeled for the Liberty-Clairton Area. The final EPA $PM_{2.5}$ Implementation Rule was published in March 2007. The final EPA $PM_{2.5}$ Modeling Guidance was published in April 2007.

3.1 Models Selection

The PaDEP is using CMAQ modeling for PM-2.5 as developed by the Mid-Atlantic NorthEast Visibility Union. The same modeling results will be used for the Liberty/Clairton area. However, a more detailed analysis is necessary for the Liberty/Clairton area due to localized emissions impacting communities located nearby. In this process, a local dispersion model will be used to more precisely locate and represent the impact of local emissions, the regional model CMAQ will be used for the remaining sources.

The EPA-preferred CALPUFF modeling system will be used to create near-field and some long-range transport simulations of the Liberty-Clairton area. CALPUFF Version 5.8 (dated June 29, 2007) is the most recently EPA-approved version for regulatory applications. CALPUFF was selected as the dispersion model for the Liberty-Clairton Area based on the complex terrain and strong temperature inversions that are characteristic to the area. CALPUFF also has the ability to model buoyant line sources that are resident to the area.

The CALPUFF modeling system is comprised of CALMET (meteorological model), CALPUFF (dispersion model), geophysical data preprocessors, meteorological data preprocessors, and several postprocessors such as CALPOST. The CALPro GUI (dated June 29, 2007) comprises CALPUFF and associated preprocessors and postprocessors in a central interface and will be utilized as the modeling software.[4]

The CALMET meteorological model employs the use of gridded multi-layer wind fields. Data from the PSU/NCAR Mesoscale Model Generation 5 (MM5) will be used for prognostic wind field data. Regional modeling will also be required for background values for the Liberty-Clairton domain. This will be performed using the Community Multiscale Air Quality (CMAQ) model. Regional impacts from CMAQ will be combined with the near-field impacts and long-range transport from CALPUFF during post-processing.

3.2 Regional Modeling

The Pennsylvania Department of Environmental Protection or its contractor will complete modeling for the Pittsburgh-Beaver Valley Nonattainment Area, likely using the regional reactive model CMAQ. The results of this modeling will be the basis of the modeling completed for the Liberty-Clairton attainment demonstration.

The regional results will provide a hourly concentrations by major $PM_{2.5}$ component for each 12 x 12 km grid cell. This will represent the background value for each cell, which will then be combined with the impacts from the CALPUFF model simulations. Sample hourly CMAQ results for major species for base year 2002 and projected year 2009 are shown in the tables in Appendix G.

[4] CALPUFF can be downloaded at: http://www.src.com/calpuff/download/download.htm

3.3 $PM_{2.5}$ Components

Analysis of speciated $PM_{2.5}$ data in Southwestern PA indicates that the Liberty-Clairton Area excess is composed mainly of primary components of $PM_{2.5}$. Therefore, emission inputs for the CALPUFF modeling will consist of primary filterable and condensable $PM_{2.5}$. Secondary formation of $PM_{2.5}$ from sulfur dioxide, nitrogen oxides, and volatile organic compounds (VOCs) will be excluded from the Liberty-Clairton modeling. Therefore, CMAQ modeled results will be used for all secondary components, and a combination of CMAQ (for background) and CALPUFF modeled results will be used for primary components.

3.4 Modeling Year

The availability of MM5 and CMAQ data is the limiting factor in the Liberty-Clairton modeling timeframe. Data is available for the area for the year 2002, based on MANE-VU regional modeling. Hence, 2002 will be the modeled year for the Liberty-Clairton modeling. Modeling will focus on annual concentrations, but selected short-term modeling periods may reveal specific meteorological scenarios and control techniques.

4.0 CALPUFF MODELING PROCEDURE

This section delineates the procedures for preprocessing, model simulations, and postprocessing required for the Liberty-Clairton modeling demonstration.

4.1 Domain Settings

Since nested domains are not possible in the current version of CALPUFF/CALMET, separate domains for long-range transport and near-field impacts will be used at different resolutions. Results from these domains will be combined in postprocessing with the regional CMAQ background results.

Common domain settings can be shared for CALPUFF, CALMET, and most associated preprocessor programs. These include:

- Projection: Universal Transverse Mercator (UTM)
- Zone: 17, Northern
- Datum: North American 1983
- Continent/Region: North America/Continental US (CONUS), NAR-C
- Base Time Zone: Eastern U.S. (GMT -05:00)
- Grid Type: Cartesian, referenced to lower left corner
- Grid Spacing:
  - 1 km for long-range transport grid
  - 100 m for near-field impact grid
- Grid Dimensions:
  - 140 x 140 km for long-range transport grid
  - 20 x 20 km for near-field impact grid

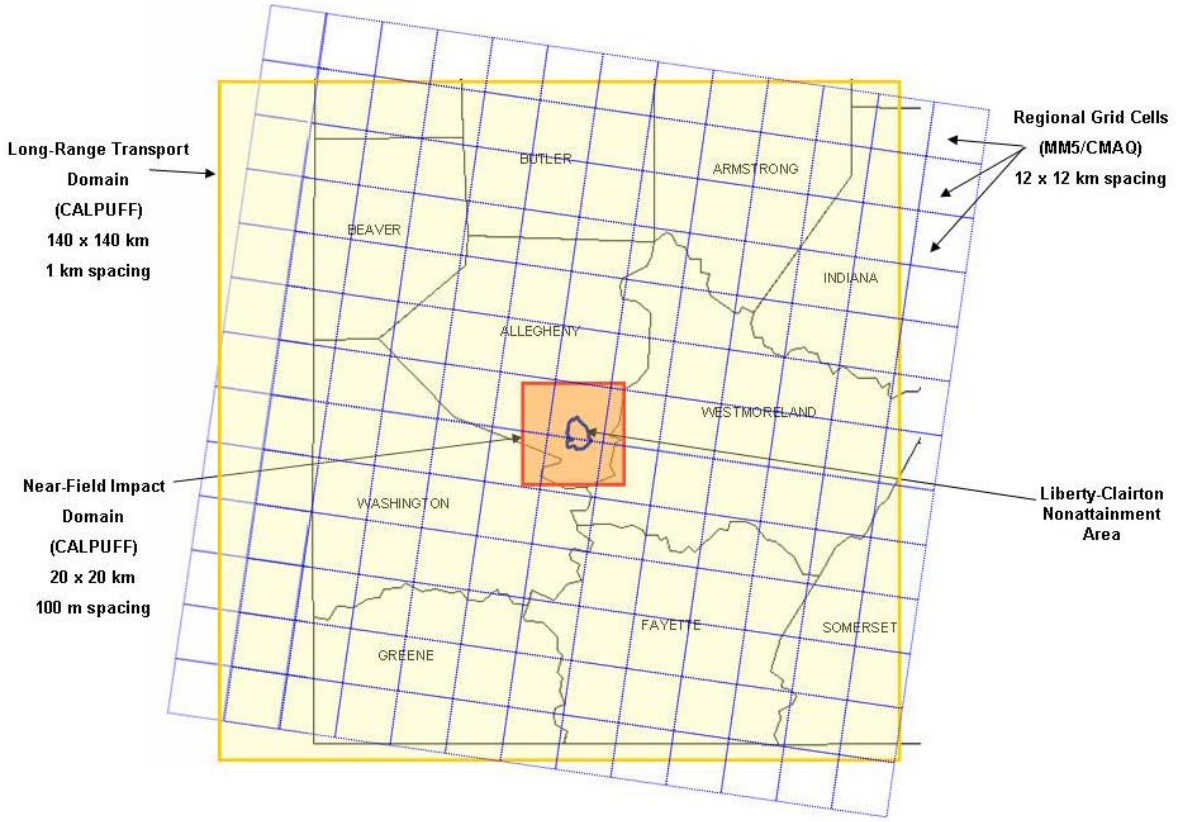


Figure 4.1. Modeling Domains

The near-field domain will be centered on the Liberty Monitor, allowing for equidistant movement of puffs around maximum monitored concentration point. The long-range transport domain will match the extent of the MM5 data as supplied by the regional modelers.

Data files from different datum references can be used for geophysical inputs since the preprocessors are able to convert to one consistent datum. Contour plotting with software such as Surfer® should be used to reveal errors that may exist in gridded data.

For the long-range modeling applications, Lambert Conformal coordinates are recommended for domains in which the earth's curvature may be significant (greater than 200 km). For purposes of post-processing Liberty-Clairton results, UTM will be datum to be used for the gridded and discrete receptor coordinates within the long-range transport and near-field domains.

4.2 Geophysical Preprocessing

Geophysical preprocessing for CALMET includes the programs TERREL, CTGCOMP, CTGPROC, and MAKEGEO. The following settings should be used for these:

- Coastline: none
- Terrain Files:
  - USGS30, 7.5' DEMs in and adjacent to the Liberty-Clairton Area
  - USGS90, 1° DEMs outside the vicinity of the Liberty-Clairton Area
- Discrete Receptors: only for Liberty and Clairton nearby receptors
- Land Use Files:
  - USGS NLCD 1992 land use (by state)

The use of 7.5' DEM terrain and NLCD 1992 land use data provide data points at every 30 meters within the near-field domain (100 meter resolution). Since the resolution of the long-range transport domain is 1 km, the use of 1° DEM terrain data at 90-meter resolution is sufficient.

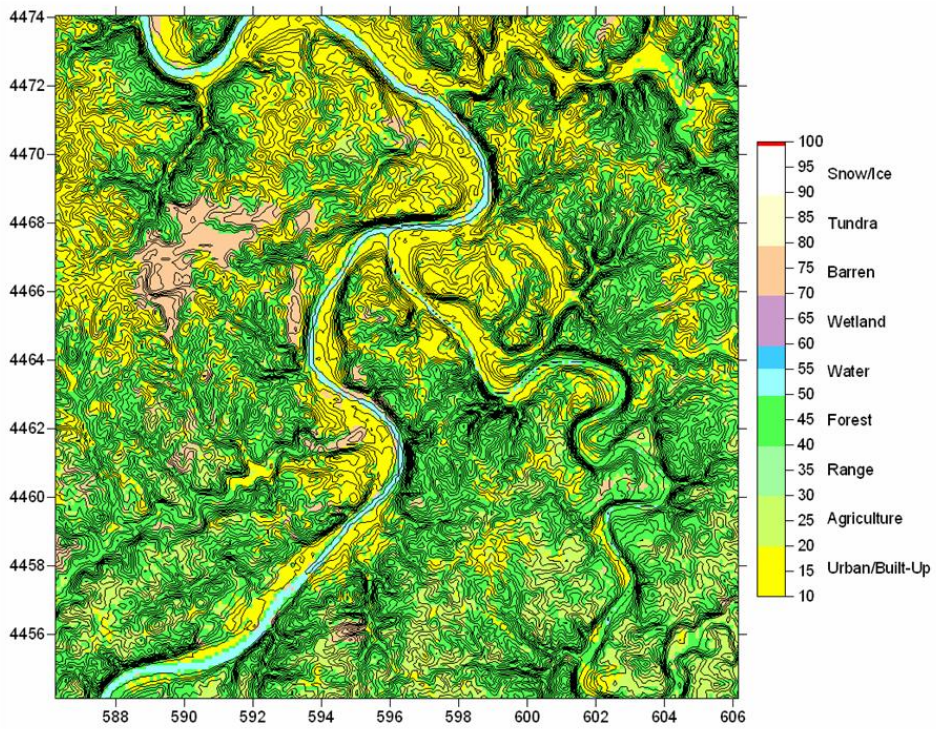


Figure 4.2. Near-Field CALMET Domain at 100 m Resolution

Land use files are periodically updated by the USGS. NLCD 2001 land use data would provide a more accurate depiction of the Liberty-Clairton Area. However, The CTGPROC preprocessor code will not accept NLCD 2001 at the time of this protocol.

4.3 Meteorological Preprocessing

Meteorological preprocessing for CALMET includes SMERGE, READ62, PXTRACT, and PMERGE. The following inputs should be used for these preprocessors:

- Period: Jan.1-Dec. 31, 2002, Local Standard Time (LST)
- Surface Data: DATSAV3 (TD-9956), converted to SAMSON
- Upper Air Data: NCDC FSL or MM5
- Top Pressure: must equal or exceed top of vertical domain
- Precipitation Data: TD-3240

Airports near the Liberty-Clairton Area include the Pittsburgh International Airport (Code: PIT, WBAN: 94823) and the Allegheny County Airport (Code: AGC, WBAN: 14762). Upper air and precipitation data is not available for the Allegheny County Airport.

Several local surface data sites have been evaluated for use in the modeling demonstration. Local surface data to be included are the Liberty site, operated by the ACHD Air Quality Program, and the Clairton site, operated by US Steel on Clairton Coke Works property. Photographs and wind roses of 2002 data for key sites are shown are shown in Appendix C.

For the long-range transport domain, the following inputs will be used

- PIT Airport surface and precipitation data
- PIT Airport and/or MM5 for hourly upper air data

For the near-field domain, the following inputs will be used:

- AGC Airport, Liberty, and Clairton surface data
- PIT Airport precipitation data
- PIT Airport and/or MM5 for hourly upper air data

Raw surface from the U.S. Steel Clairton site is incomplete, containing no data from Jan.1 – Aug. 11, 2002. A regression analysis based on additional years of data from Clairton, Liberty, and historical met sites may be used to substitute or “back-fill” missing data for 2002 at Clairton. Details of the regression analysis will be given in the final report by the meteorological contractor.

Since surface data from local meteorological sites only provide wind speed, wind direction, and temperature, airport data will be substituted for other meteorological variables. During hours where local temperature is lower than airport dew point temperature, relative humidity will be corrected to 100% in the surface data files.

Surface characteristics such as albedo and surface roughness can vary by season. Therefore, CALMET files will be processed on a seasonal basis with varying surface characteristics for the near-field domain. Adjustments will also be made to anthropogenic heat flux in grid cell areas where combustion sources emit large amounts of heat. Appendix D shows default average surface parameters (all-season) and high anthropogenic heat flux areas.

4.4 Prognostic Meteorology

Data for prognostic meteorology will be extracted from 2002 MM5 results. The PSU/NCAR Mesoscale Model Generation 5 (MM5) is a limited-area, non-hydrostatic, terrain-following sigma-coordinate model designed to simulate or predict mesoscale atmospheric circulation. Modeled surfaces near the ground closely follow the terrain, and the higher-level sigma surfaces tend to approximate isobaric surfaces. The vertical and horizontal resolution and domain size are variable.

MM5 data has been prepared for 2002 in the Northeastern United States by states in the Mid-Atlantic/Northeast States Visibility Union (MANE-VU) during early work for Regional Haze State Implementation Plans (SIPs) for these states. This same data will be used by the member states in preparation of their $PM_{2.5}$ SIPs. PA DEP has indicated that they will use this data in their SIPs, including the Pittsburgh-Beaver Valley SIP.

For consistency with the regional modeling for the Pittsburgh-Beaver Valley SIP, ACHD will use the same meteorological data and process it through CALMET for use in the CALPUFF model. The MM5 grid cells are set at 12 km spacing. ACHD will use the existing grid and the subset of meteorological data appropriate for the modeling domains. Appendix E shows MANE-VU MM5 and CMAQ maps and configurations for Southwestern Pennsylvania.

Additional meteorological data will be included in the CALMET processing of data. This includes surface, upper air, and precipitation data from the Greater Pittsburgh Airport (PIT), surface data from the Allegheny County Airport, and surface data from ACHD air quality or other monitoring sites. CALMET will create a three-dimensional wind and temperature gridded fields for use in CALPUFF.

4.5 Meteorological Simulation

CALMET will be used for the meteorological simulation. ACHD will begin by using only the MM5 data in CALMET and review the CALMET-created wind fields for representative wind characterization. Meteorological site data will be added, with limited range of effectiveness, until sufficiently accurate representative wind fields are structured for each hour across the modeling domain.

Meteorological data processed through CALMET will result in two gridded meteorological domains: a long-range transport domain (140 x 140 km, 1 km receptor spacing) and a near-field impact domain (20 x 20 km, 100 m receptor spacing), with each domain containing 11 vertical layers of meteorological data. Data used to create these grids will come from 12-km spaced MM5 data already processed for multi-state regional modeling, combined with local airport and local meteorological tower data. The steps of meteorological data preparations are:

a) Quality-assure MM5 grid points from MANE-VU MM5 meteorological data processed for 2002.
b) Reformat observed data as necessary to prepare for CALMET runs.
c) Review results for model input parameters such as albedo and surface roughness from the preprocessor programs. Identify values for model inputs such as bias and mixing height constants; use default values if unknown.
d) Compare meteorological data from CALMET run to observed data. Identify specific days to run during data preparation tests, including days of high concentration and representation of various meteorological conditions.
e) Make a first run through CALMET using only MM5 and terrain data, using the days selected in (d).
f) Evaluate results against observed data.

g) Review airflow information surrounding the USS Clairton coke works. Using heat information from the plant, identify a proper representation of air movement near and above the plant.
h) Review and determine use of observed meteorological data for subsequent test runs.
i) Make subsequent test runs, with selected observed data files and adjusted meteorological parameters. Analyze results, and recommend modifications to meteorological parameters with each run.
j) Make full year runs with final meteorological parameters and chosen observed data sets.

CALMET runs will be performed by season to allow for seasonally-adjusted surface parameters. For modeling purposes, seasons are defined as follows:

- Winter: Dec. – Feb.
- Spring; Mar. -May
- Summer: June - July
- Autumn: Sept. - Nov.

For a complete year of CALMET data for year 2002, a total of five files are needed as input to CALPUFF, since the winter season is split between Jan.-Feb. and December.

Key variables in CALMET are needed to assign bias, radii of influence, and many other options. Table 4.5 below lists CALMET variable assignments based on preliminary modeling and meteorological analyses.

TABLE 4.5. CALMET Variable Values

CALMET Variable	*Selected Value*	*Rationale*
NOOBS	1	Use MM5 upper air data
NPSTA	-1	Use MM5 precipitation data (to consider wet deposition)
IEXTRP	-4	Using MM5 for upper levels, extrapolate observed surface winds aloft to account for valley wind effects based on BIAS.
ZFACE	0.,20.,40.,80.,160.,320.,640., 1000.,1500.,2000.,2500.,3000.	Define 11 cell face heights (m) in vertical grid
BIAS	-1, -1, -1, -1, .5, .8, 1, 1, 1, 1, 1	Heavily weight surface observations below valley wall height of 200m and then increase weighting of upper air observations above valley wall.
RMIN2	-1	Not used since NOOBS=1; IEXTRP=-1
IPROG	14	Use MM5 as a first guess but allow CALMET to adjust for terrain
TERRAD	0.5	Using formula of terrain ridge to ridge distance divided by 2 plus some small factor
R1 & R2	1.5	This adjustment is data dependent and projected wind patterns will be compared to observed wind flows (feedback mechanism)
RMAX1 & RMAX2	1.5	This adjustment dependent on met data sites relative to terrain valley/ridge features
ITPROG	1	Use surface stations and MM5 for upper air
IRHPROG	1	Use MM5 relative humidity
SIGMAP	12	Set radius to the MM5grid spacing

4.6 Emissions Inputs

Emissions inputs will be based on calculated actual emissions data for sources affecting the Liberty-Clairton Area. Types of sources should be modeled as such:

- Stacks: point sources
- Ambient-Temperature Fugitives: area or volume sources
- Quench Towers: point or short buoyant line sources
- Coke Oven Batteries: buoyant (BLP) line sources
- Significant roads: non-buoyant line sources

For the base inventory, the ACHD will begin with the NEI inventory as prepared for the MANE-VU regional $PM_{2.5}$ modeling effort. All sources in Allegheny County and significant sources outside Allegheny County will be reviewed for their influence on the non-attainment area.

The MANE-VU inventory lists 1439 point sources for Allegheny County. Preliminary runs will be made of individual sources and groups of sources to determine if these sources create a gradient of concentrations across the CMAQ grid cell (that matches the near-field domain), i.e. that the source results in a significantly higher concentration at one receptor point than another. Sources with no gradient that are not targeted with local controls will be removed from the CALPUFF inventory. The intent in the CALPUFF modeling is to find the variance of concentrations to add or subtract that gradient from the full CMAQ model.

Sources will be reviewed for emissions and source parameter errors. MANE-VU has corrected some source inputs, but since the accuracy of source emissions and parameters become more sensitive to a finer grid, it may be necessary to further refine these sources. Recent stack tests may be incorporated to better characterize emission rates and stack parameters.

For consistency with CMAQ modeled results, sources with erred parameters will be subtracted from the regional results, based on average CALPUFF results that closely matches that CMAQ grid cell, then added according to corrected CALPUFF average results. This is discussed more in the model simulation and postprocessing sections that follow.

The MANE-VU emission inventory contains a number of area sources. ACHD will evaluate these sources to determine whether they are spread evenly across the County and therefore would not be responsive to the CALPUFF model. Also, ACHD will review the effect of these sources within the Liberty/Clairton non-attainment domain.

<u>Allowable vs. Actual Emissions</u>

The regional model is based on 2002 actual emissions for its modeling runs. This is necessary because the formation of some $PM_{2.5}$ components such as sulfates and nitrates depend on the ambient mix of chemicals. Thus, an actual emission inventory, rather than an allowable emission inventory, is needed. The CALPUFF modeling of the Liberty-Clairton Area must be consistent with the CMAQ modeling, so modeling will also be based on 2002 actual emissions using the inventory. This is different from most local regulatory dispersion modeling applications, where allowable or potential emissions are used.

In developing a control strategy, a procedure must be developed to calculate expected actual emissions from the control strategy. For those sources with a control strategy set by the Pittsburgh-Beaver Valley SIP demonstration and modeled in the attainment run for that model, the ACHD will use the same emission rates for the CALPUFF modeling runs. For those sources whose emissions have changed by the ACHD control strategy for the Liberty-Clairton Area, or changed due to other expected source changes, emission rates will be adjusted to represent

actual emission rates in the attainment year by evaluating actual operating levels and actual fuel use over the most recent two years.

Appendix F contains sources potentially affecting the Liberty-Clairton $PM_{2.5}$ Nonattainment Area, lying within the nonattainment area or adjacent municipalities.

4.7 Receptor Grid

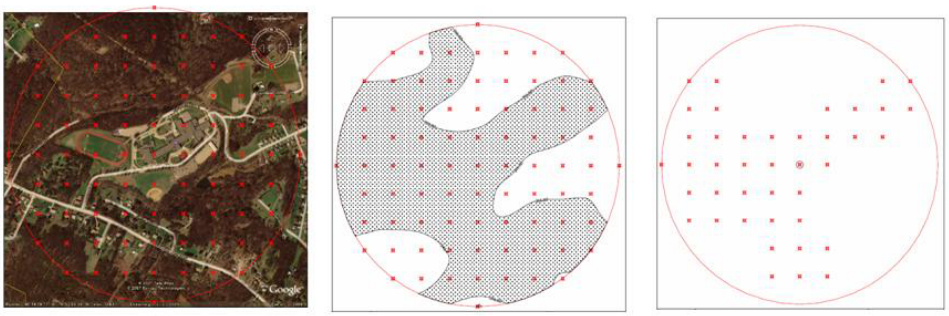
Either a 100-meter or 1-kilometer grid across the area covered by the CMAQ modeling grid number 98, 89 of the MANE-VU modeling will be used to determine an average CALPUFF concentration for each source modeled. Tests will be made of the sensitivity of the model to the choice of grid.

Although the modeling domains are larger in scale to accommodate changing wind patterns, the attainment analysis will only be performed on the 12 km CMAQ grid cell that contain the Liberty-Clairton Area. Final attainment will be based on the nearby receptor impacts located at the FRM sites within the Liberty-Clairton Area on a quarterly (calendar year) basis

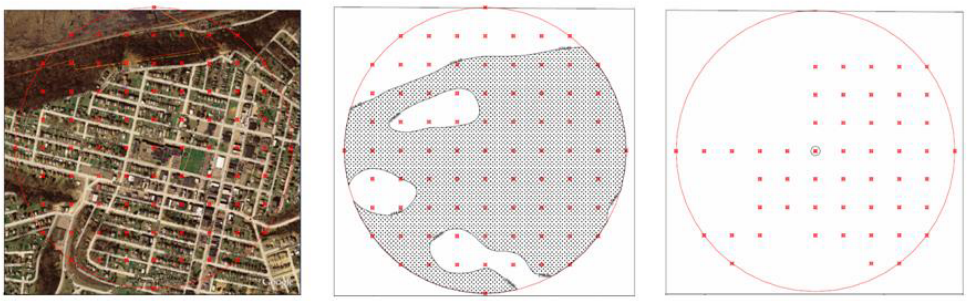
Nearby Receptors

The modeling guidance recommends modeling concentrations at “nearby receptors,” receptors close to the 2 PM-2.5 monitors in the Liberty/Clairton area, the Liberty monitor and the Clairton monitor. Nearby receptors have been defined by ACHD as receptors spaced at 100 meter resolution up to a 500 meter radius from the FRM site and located at an elevation no less or greater than 40 feet of the FRM monitor elevation. Once the elevation criterion is not met, receptors at further distances away from the monitor in the same radial direction are excluded.

Liberty Nearby Receptors



Clairton Nearby Receptors



The locations of the Clairton nearby receptors have led to a problem: the receptors located southwest of the monitor are located outside the CMAQ grid cell used in the remaining modeling.

Several options were discussed to deal with this issue:

- Include the next CMAQ grid cell in the analysis, by using the CMAQ concentrations from this grid with the receptors located in that cell. This may lead to some inconsistency.
- Include the next CMAQ grid cell in the analysis, by averaging the CMAQ results of the two grid cells and modeling CALPUFF as a 12 x 24 kilometer grid. This would shift the emphasis off the non-attainment area and into locations further south.
- Do not consider any nearby receptors not located within the CMAQ grid. This may lead to concerns from the excluded areas.
- Locate the CALPUFF modeling grid 0.5 southwest of the CMAQ grid, but use the concentrations provided by the one CMAQ grid cell when combining the results of the two models.

ACHD has chosen the fourth option: make a slight shift to the southwest to the CALPUFF equivalent cell to include the nearby receptors for Clairton (see Figure 4.8.b below). The CALPUFF receptor gird would not include the area represented by the "top" 0.5 km x 12 km of the CMAQ grid cell, and include an area 0.5 km x 12 km area below the identified CMAQ grid cell. This would maintain the mass of a 12 km x 12 km grid, include all the nearby receptors, and maintain consistency of the CMAQ results across the grid. Since there are no major sources affected by such an adjustment, and the average should be similar to that of the exact equivalent CMAQ grid cell area, this shift should not negatively affect the final modeled results.

Figure 4.8.a. Near-Field Domain Aerial Map, with CMAQ Grid Cell Area and Nearby Receptors for Liberty and Clairton

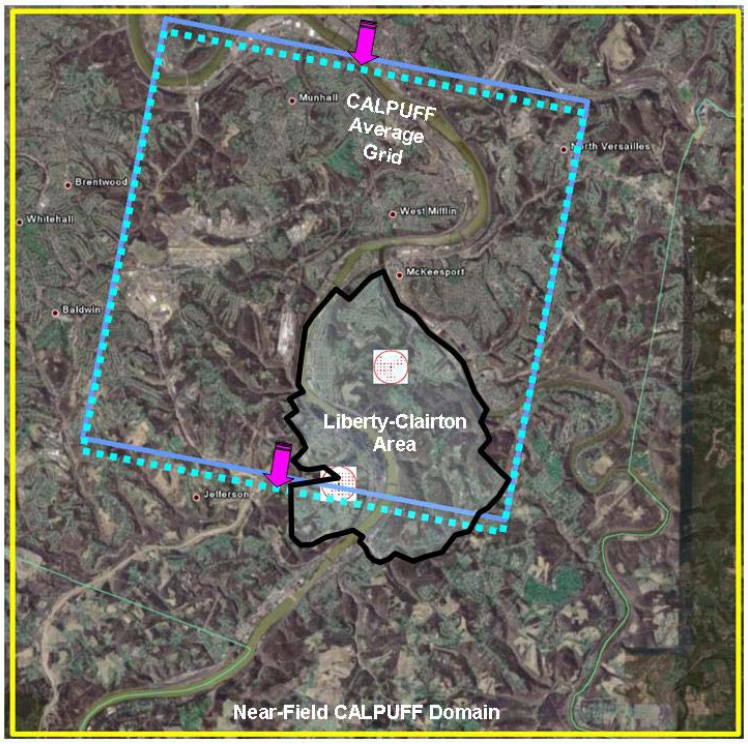


Figure 4.8.b. Near-Field Domain Aerial Map, with CALPUFF Equivalent (Average) Grid Cell Shift and Liberty-Clairton Area and Monitors

4.8 Modeling Tasks

The CALPUFF model will be run for each source, for each quarter, for each of the selected pollutants.

The modeling steps, in brief, are:

a) Select input and results data from MANE-VU CMAQ runs for Liberty-Clairton non-attainment area. Develop software as needed to extract data from the MANE-VU runs.
b) Compare the NEI/MANE-VU PM and VOC emissions inventory against ACHD, PADEP, & WVDEP inventories for Allegheny County sources and select sources from the remainder of the modeling domain. This review will include source parameters.
c) Confirm questionable emission rates and source parameters.
d) Write software, if needed, to combine results from modeling runs of separate groups of sources, specifically to combine CALPUFF and CMAQ results. Results from different CALPUFF runs, i.e., near-field and long-range grids, can be combined using the CALSUM or other postprocessor.
e) Make test runs of individual and groups of sources or small sets of receptors or dates using CALPUFF to check the integrity of input files.
f) Perform test runs for model options as applicable; exclude options not applicable to Liberty-Clairton modeling such as chemical transformation.
g) Set up full modeling runs. If needed, set up separate modeling runs to run simultaneously on separate computers.
h) Combine CALPUFF and CMAQ results, using the process described below.
i) Run the model iteratively to determine the optimum control strategy.
j) Verify the attainment modeling by making a final run using the selected control strategy.
k) Combine CALPUFF results with CMAQ results of the final run.
l) Prepare a technical support document on the final attainment modeling.

5.0 EVALUATION OF RESULTS

This section delineates the procedures for postprocessing modeled results and testing for attainment.

5.1 Combination of CMAQ and CALPUFF

Component-by-Component Analysis

Total concentration of $PM_{2.5}$ can be determined by summing the primary dispersion derived component and the secondary grid model component. The Speciated Modeled Attainment Test (SMAT) will adjust the major species to a total that is more equivalent to an FRM mass concentration on a quarterly basis.

Elsewhere in this document, it is demonstrated that nitrates and sulfates in the Liberty/Clairton are regional, rather than local, in nature. The results of the CMAQ model are sufficient for these components, and CALPUFF will not be run for them. For nitrates, sulfates, and ammonium, the value from CMAQ base and attainment modeling runs will be used. There will be one value each day per 12 x 12-km grid, on a quarterly basis.

CALPUFF modeling will be done for primary filterable and condensible $PM_{2.5}$ emissions. Results will be analyzed and calculated against the same component in CMAQ. For primary filterable, condensable, and other primary $PM_{2.5}$, the value from CMAQ will be combined with CALPUFF modeled values.

CMAQ regional modeling will provide one value per species across the 12 x 12 km grid cell that includes the Liberty-Clairton Area. CALPUFF modeling for the near field domain (long-range domain discussed below), will produce two end-results:

- And array of concentrations in an area equivalent to the area represented by the CMAQ 12 x 12 km cell, from which an average will be calculated. Resolution for this area should be sufficient enough (250 m to 1 km) to realize the maximum and minimum impacts throughout the area. The average from all the receptors from the CALPUFF “equivalent cell” will be used in combination with the CMAQ value to effectively remove any double-counting of average/background concentrations.

- Concentrations at the nearby receptors, at or adjacent to the FRM site locations within the Liberty-Clairton Area, representing community impacts.

The methodology of the CALPUFF procedure is to use CMAQ values as background, remove the equivalent CALPUFF average values from the background (to avoid double-counting), and add the localized CALPUFF impacts at the nonattainment sites.

Based on work done for the Philadelphia air toxics study, the CALPUFF modeling can provide a finer resolution to the terrain within the non-attainment area than the CMAQ model; however, the mass of the CMAQ grid cell should be maintained. For the nearby receptor analysis, ACHD plans to use the equation:

CMAQ + CALPUFF defined sub-grid variability:

$$C_{sub\text{-}Grid} = C_{CMAQ} + C_{CALPUFF} - [C_{CALPUFF}]_{AVG}$$

In this case, the concentration results from the CMAQ attainment run and the concentrations from the CALPUFF attainment runs will be used. The effects of local controls on sources that are not included in the CMAQ modeling would be eradicated from the attainment run if a new, final CALPUFF average were subtracted from each receptor. So, the final attainment calculation would need to be:

$$C_{controlled_sub\text{-}Grid} = C_{CMAQcontrolled} + C_{CALPUFFcontrolled} - [C_{CALPUFF}]_{AVGuncontrolled}$$

Relative response factors (RRFs) will be applied to elemental and organic carbons base year actual monitor concentrations in order to project future year concentrations. Actual speciation monitor results are not available for Liberty-Clairton in 2002, and averages for 2003-2007 will be extrapolated temporally to represent quarterly averages.

5.2 Attainment Test

Final concentrations for each species will be entered into SMAT analysis, which adjusts the speciated results to more closely match FRM results using the SANDWICH method on a quarterly basis. The SANDWICH method (Sulfate, Adjusted Nitrate, Derived Water, Inferred Carbonaceous mass Hybrid) material balance approach adds water, passive mass, and corrects the organic carbon species.

The EPA Modeling Guidance for $PM_{2.5}$ (and ozone and regional haze) provides the procedures for processing the data by SMAT. Weight of evidence analysis will be needed based on final values for $PM_{2.5}$ for the controlled year.

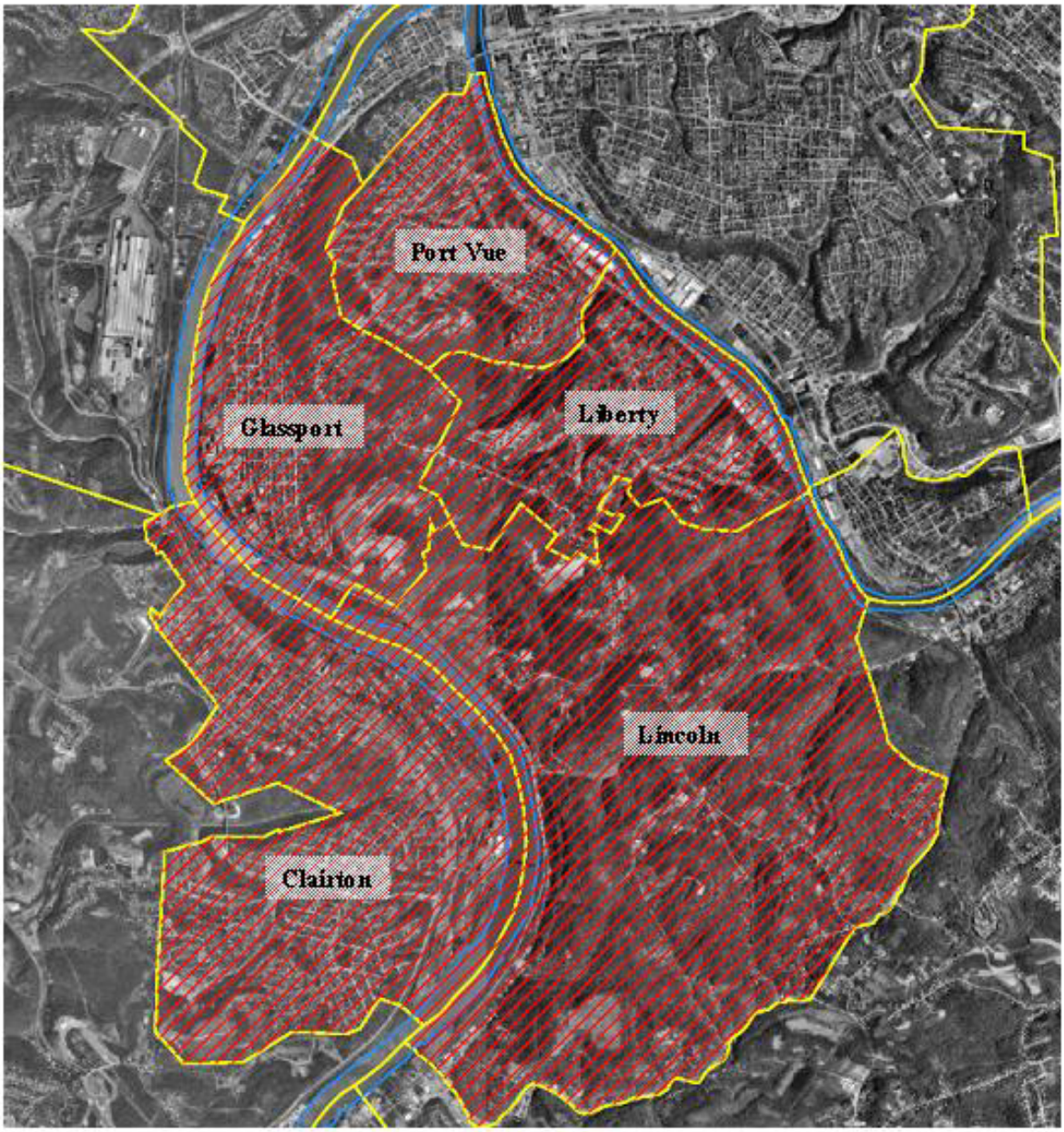
APPENDIX A – Maps of Affected Areas

$PM_{2.5}$ Southwestern PA Designation Areas

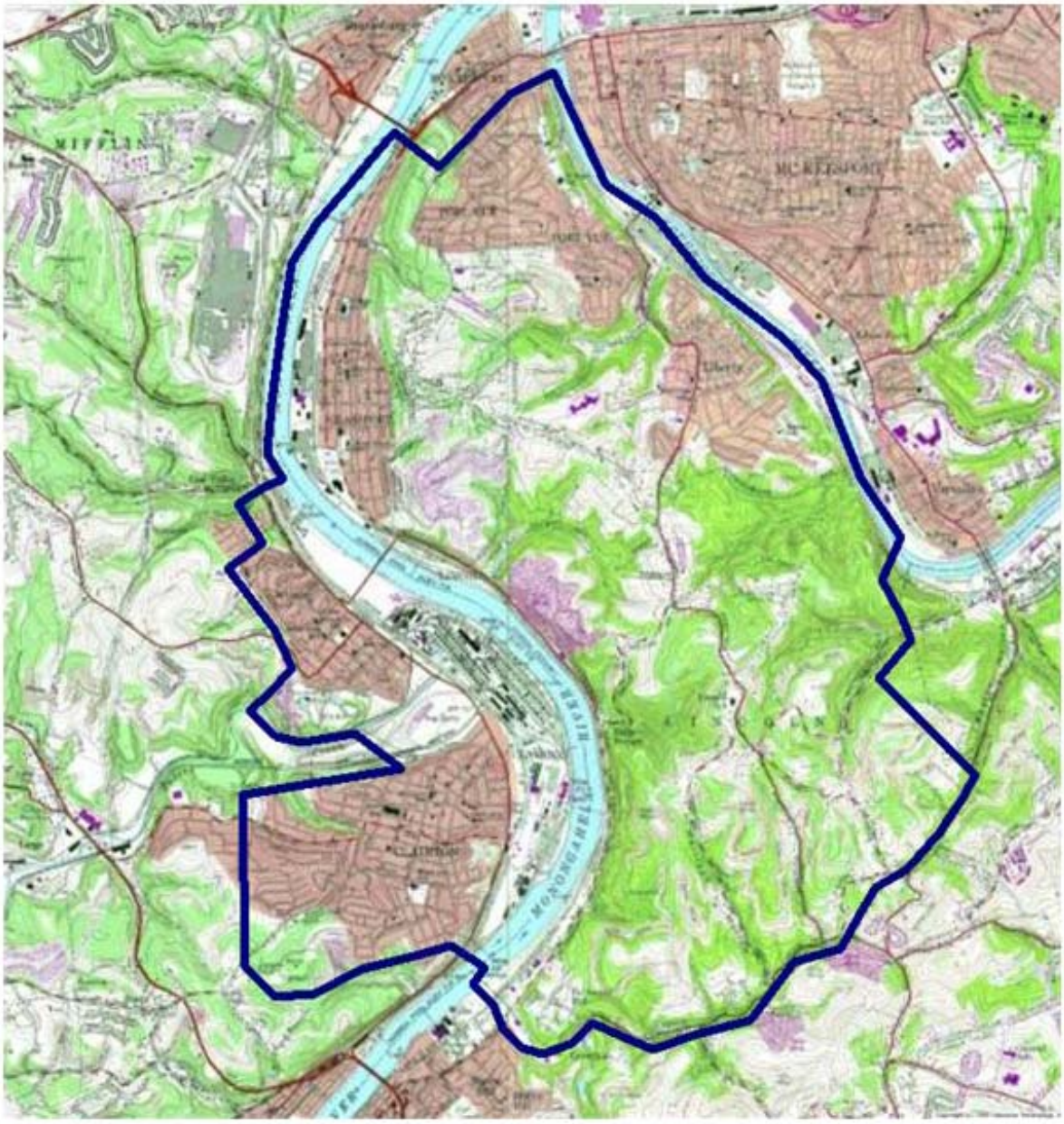
Pittsburgh – Beaver Valley Area: includes all of Allegheny, Beaver, Butler, Washington, and Westmoreland Counties, and parts of Armstrong Co. (Washington Twp., Plumcreek Twp., and Elderton Borough), Greene Co. (Monongahela Twp.), and Lawrence Co. (Taylor Twp. south of New Castle)

Liberty – Clairton Area: includes Glassport, Liberty, Lincoln and Port Vue Boroughs, and City of Clairton

Liberty-Clairton Area – Aerial Close-Up
(with Municipalities)



Liberty-Clairton Area – Topographic Close-Up



APPENDIX B – Monitored Sites and Data

Two sites have monitored $PM_{2.5}$ (FRM monitors) within in the Liberty-Clairton Area:

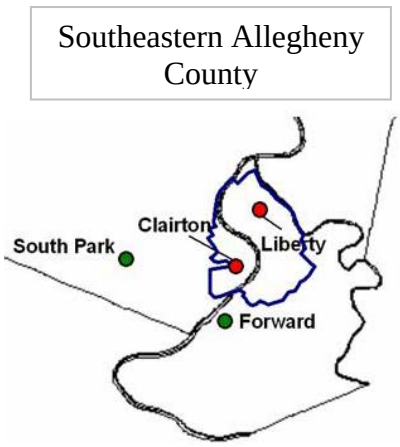
Liberty: Located on a plateau near the center of the Liberty-Clairton Area at an elevation of 1069 ft. (MSL). It has monitored nonattainment for both the annual and the 24-hour standard. It also contains continuous (TEOM) and speciation (STN) monitors. [AQS# 42-003-0064-88101]

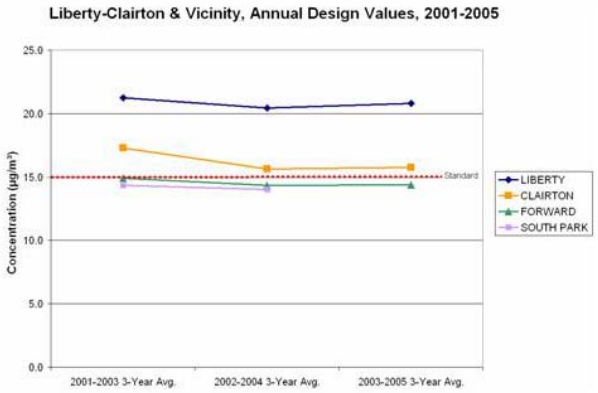
Clairton: Located within the Monongahela River valley in the western portion of the area at an elevation of 953 ft. (MSL). It has monitored nonattainment for the annual standard only. [AQS# 42-003-3007-88101]

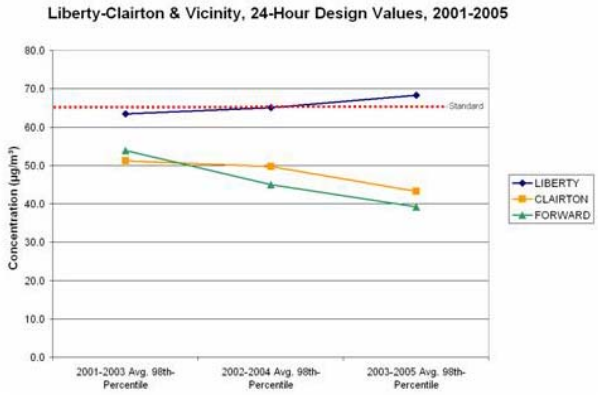
Two additional sites have monitored $PM_{2.5}$ (FRM monitors) within the vicinity of the Liberty-Clairton Area:

Forward: Located on a plateau to the south of the Liberty-Clairton Area at an elevation of 1170 ft. (MSL). It has monitored attainment of both standards. It was relocated from the South Park site in Feb. 2003 and was discontinued in Dec. 2005. AQS# 42-003-0133-88101

South Park: Located on a plateau to the west of the area at an elevation of 1221 ft. (MSL). It monitored attainment for both standards. It was discontinued and moved to the Forward site in Feb. 2003. AQS# 42-003-0131-88101

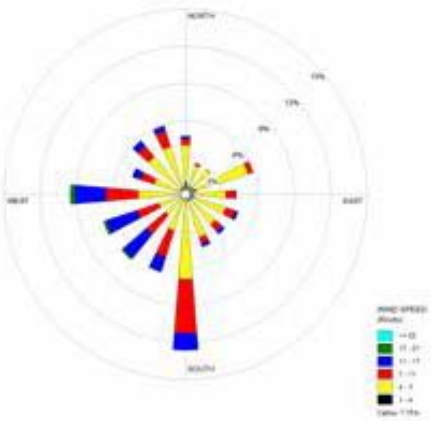




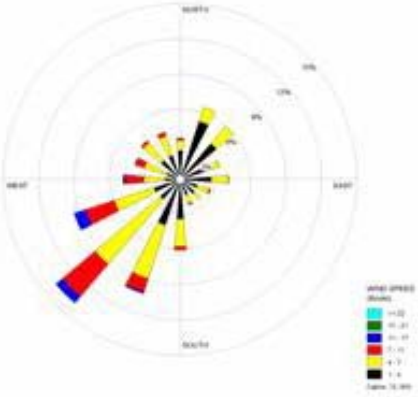


APPENDIX C – Meteorological Sites with Wind Roses

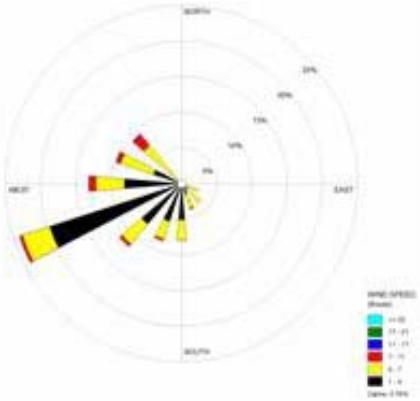
Allegheny County Airport



Liberty



Clairton

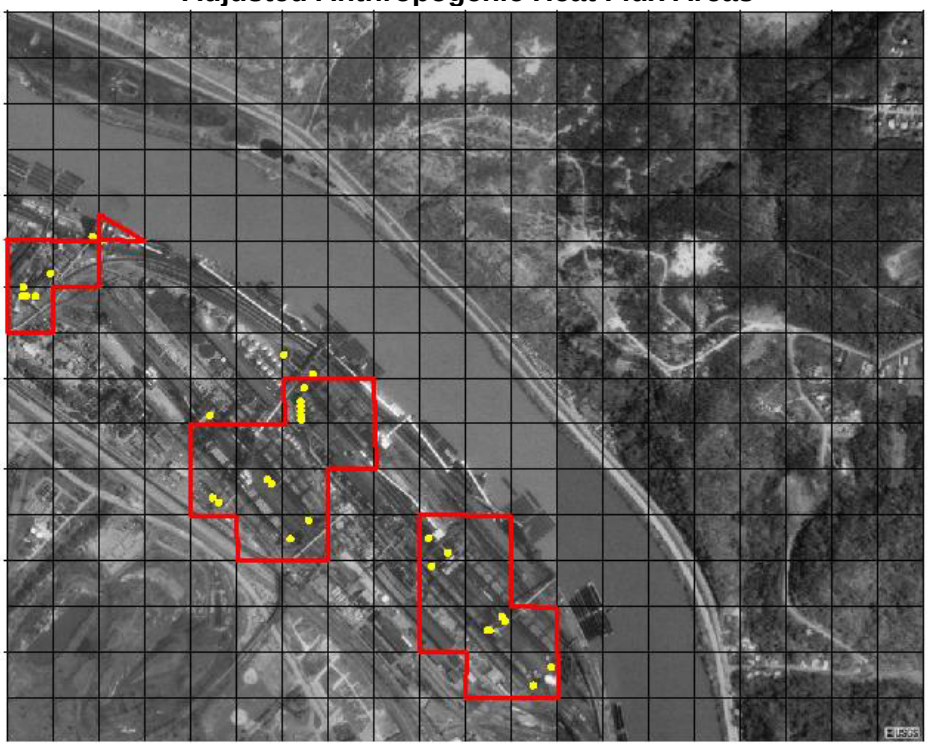


APPENDIX D – Surface Characteristics and Heat Flux Areas

Annual Average CALMET Default Surface Characteristics with Adjusted Anthropogenic Heat Flux

Land Use Type	Description	Albedo	Bowen Ratio	Soil Heat Flux	Anthropogenic Heat Flux	Leaf Area
11	RESIDENTIAL	0.19	1.20	0.19	5.00	1.68
13	INDUSTRIAL	0.18	1.50	0.25	30.00	0.00
15	INDUSTRIAL AND COMMERCIAL COMPLEXES	0.18	1.50	0.25	5572.73	0.00
21	CROPLAND AND PASTURE	0.15	1.00	0.15	0.00	3.00
41	DECIDUOUS FOREST LAND	0.10	1.00	0.15	0.00	7.00
42	EVERGREEN FOREST	0.10	1.00	0.15	0.00	7.00
43	MIXED FORESTLAND	0.10	1.00	0.15	0.00	7.00
52	LAKES (RIVERS)	0.10	0.00	1.00	0.00	0.00
75	STRIP MINES, QUARRIES, AND GRAVEL PITS	0.30	1.00	0.15	0.00	0.05
76	TRANSITIONAL AREAS	0.22	1.25	0.20	0.00	0.35

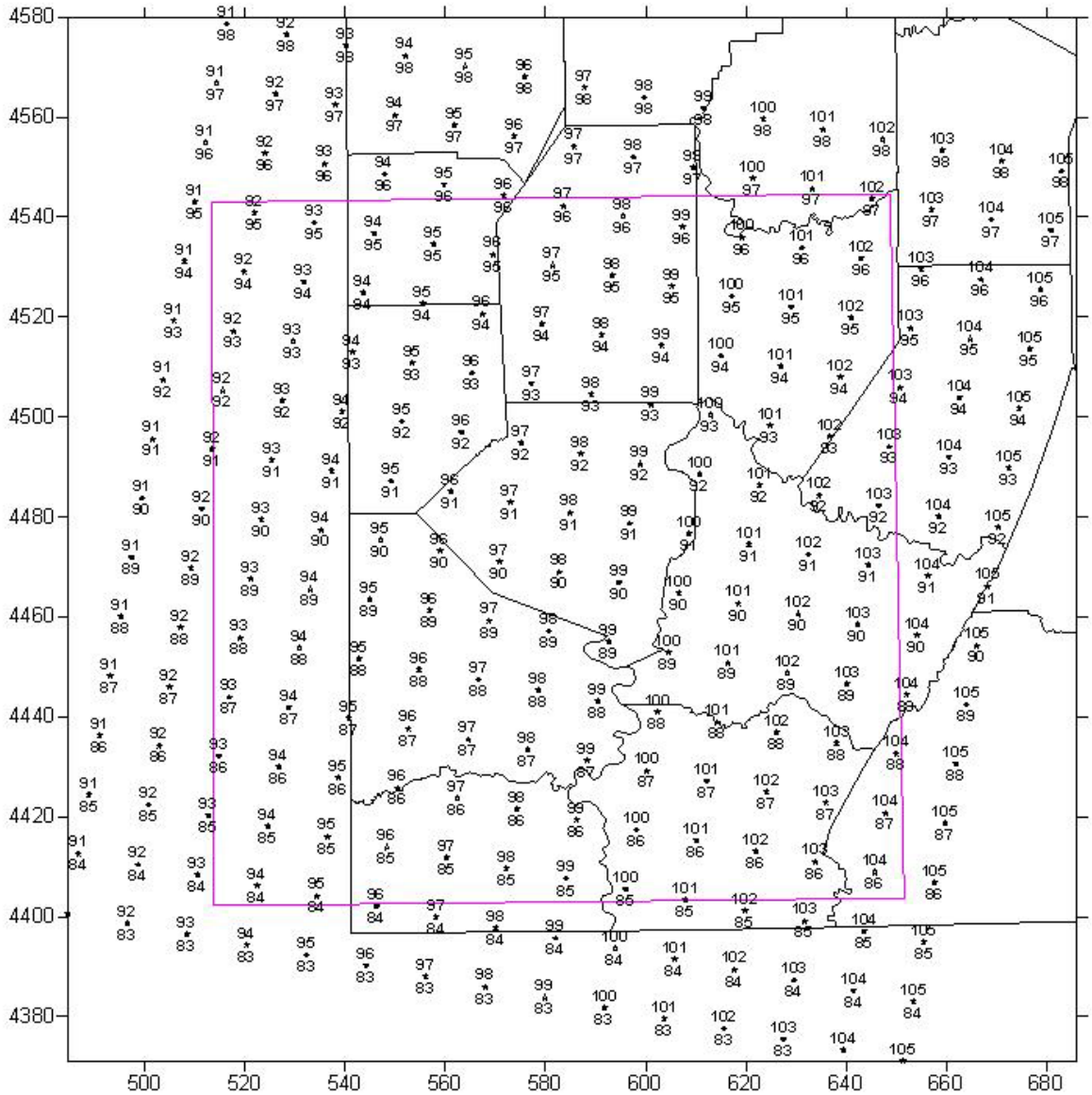
Adjusted Anthropogenic Heat Flux Areas



Near-field grid cells in red contain high anthropogenic heat flux based on combustion sources (shown in yellow)

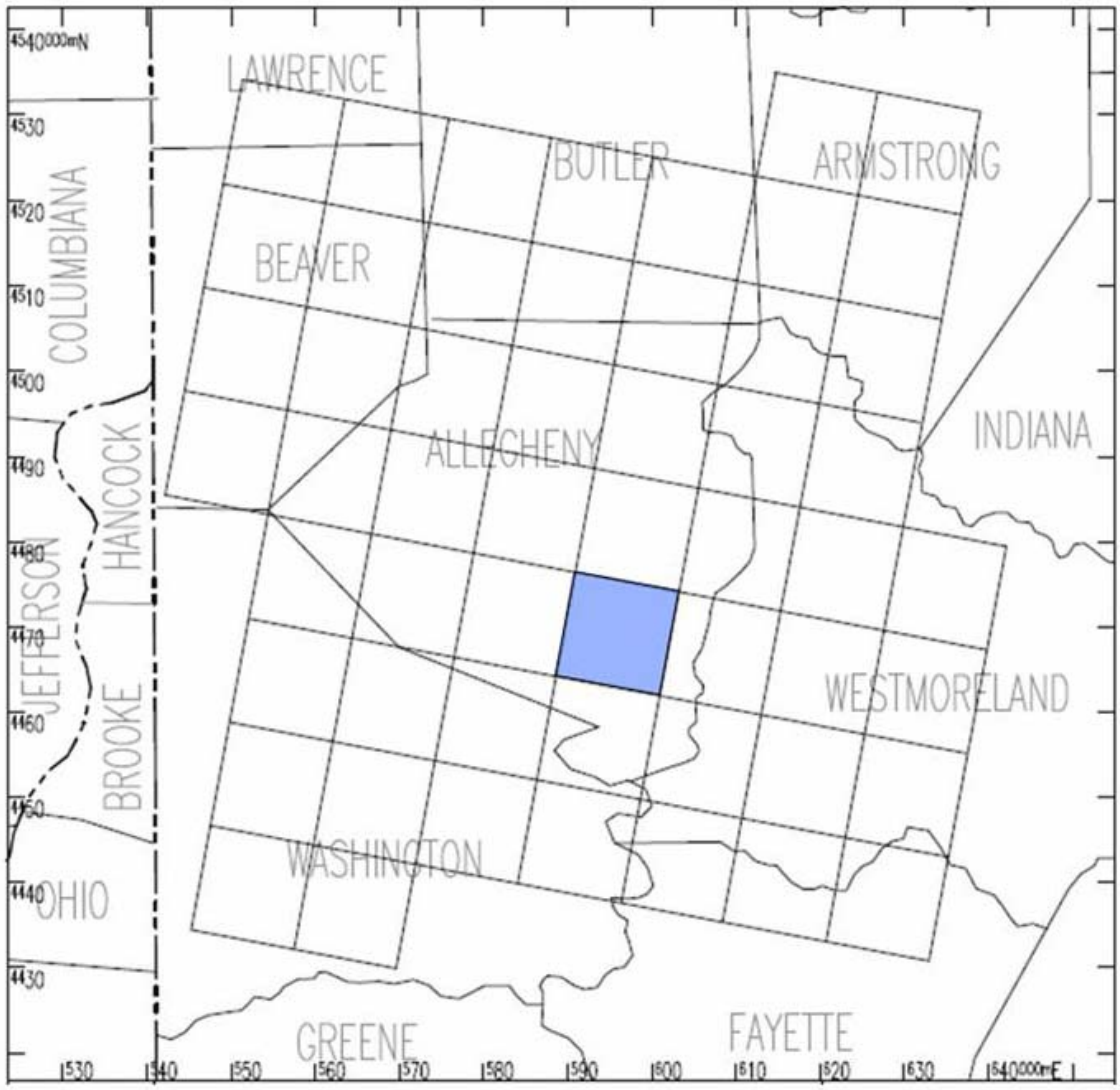
APPENDIX E – MANE-VU Grid Cells and Configuration

MM5 Grid Center Points and MM5 Coverage



Grid points at 12 km spacing

CMAQ Grid Cells with SW PA Counties



Grid cell containing Liberty-Clairton shown in blue

MANE-VU Regional Modeling System Grid Configurations

OTC MM5/SMOKE/CMAQ modeling system for 2002 annual simulation is applied with a Lambert Conformal Conic projection with parallels at 33N and 45N. A spherical earth radius of 6370km is used in these programs.

MM5 Setup

MM5 was run with two-way nesting at 36 and 12km horizontal grid spacing and with 29 vertical layers. The top is at 50 mb.

For 36km domain, the center is at 97W and 40N. There are 149 grids (dot-points) in east-west direction and 129 grids (dot-points) in north-south direction. The south-west corner is at (-2664km, -2304km) and the north-east corner is at (2664km, 2304km)

For 12km domain, there are 175 grids in east-west direction and 175 grids in north-south direction. The south-west corner is at (252km, -900km) and the north-east corner is at (2340km, 1188km)

The 30 sigma-levels for the 29 vertical layers are:
1.0000, 0.9974, 0.9940, 0.9890, 0.9820, 0.9720, 0.9590, 0.9430, 0.9230, 0.8990, 0.8710, 0.8390, 0.8030, 0.7630, 0.7180, 0.6680, 0.6180, 0.5680, 0.5180, 0.4680, 0.4180, 0.3680, 0.3180, 0.2680, 0.2180, 0.1680, 0.1230, 0.0800, 0.0400, 0.0000

CMAQ Setup

CMAQ 36km modeling domain has 145 cells in east-west direction and 102 cells in north-south direction. The south-west corner is at (-2628km, -1728km) and the north-east corner is at (2592km, 1944km)

CMAQ 12km modeling domain has 172 cells in east-west directions and 172 cells in north-south direction. The south-west corner is at (264km, -888km) and the north-east corner is at (2328km, 1176km)

There are 22 vertical layers for CMAQ. The sigma-levels for these 22 layers are:

1.0000, 0.9974, 0.9940, 0.9890, 0.9820, 0.9720, 0.9590, 0.9430, 0.9230, 0.8990, 0.8710, 0.8390, 0.8030, 0.7630, 0.7180, 0.6680, 0.5680, 0.4680, 0.3680, 0.2680, 0.1680, 0.0800, 0.0000

SMOKE Setup

SMOKE modeling domains are same as CMAQ, except that the emissions are limited to the lower 16 CMAQ layers.

APPENDIX F – Facilities Potentially Affecting Liberty-Clairton

Below are facilities potentially affecting the Liberty-Clairton PM2.5 Nonattainment Area, lying within the nonattainment area or adjacent municipalities, according to the ACHD permit tracking list. Emissions data are based on NEI 2002 emissions inventory (actuals).

Major/Minor/Synthetic Minor Sources w/$PM_{2.5}$ > 1 TPY
Clairton Slag, *W. Elizabeth*.....10.46 tpy
CP Industries, *McKeesport*.....1.05 tpy
Eastman Chemical, *W. Elizabeth*.....13.04 tpy
Guardian, *W. Elizabeth*.....21.89 tpy
Marsh Asphalt, *Dravosburg*.....4.66 tpy
Mid-Continent Coal, *Clairton*.....4.10 tpy
Koppers, *Clairton*.....6.71 tpy
US Steel Clairton, *Clairton*.....319.04 tpy
US Steel Irvin, *W. Mifflin*.....26.41 tpy

Major/Minor/Synthetic Minor Sources w/$PM_{2.5}$ < 1 but Other Criteria > 1 TPY
GE International, *W. Mifflin*
GM, *W. Mifflin*
Kinder Morgan, *Dravosburg*
Liberty Pultrusions, *W. Mifflin*
Marathon Ashland, *W. Elizabeth*
Nash, *Elizabeth*
Precoat, *McKeesport*
Sanyo Chemical, *W. Elizabeth*

Major/Minor/Synthetic Minor Sources w/All Criteria < 1 TPY
PA Electric Coil, *Glassport*

Minor Sources w/No Emissions Inventory
AKJ Industries, *Clairton*
Elizabeth Carbide, *McKeesport*
Harbison Walker, *W. Mifflin*
MonValley Transportation Center, *Glassport*
Penn Rilton, *W. Elizabeth*
Ryan Metal, *McKeesport*
Tech Met, *Glassport*
TYK Refractories, *Clairton*

PA DEP Sources
Reliant Energy – Elrama, *Union Twp.*
Allegheny Energy – Mitchell, *Union Twp.*

APPENDIX G - Sample CMAQ Output

Data below is shown for year 2002 (base year), by hourly major species in µg/m³. The species A25 is primary un-speciated $PM_{2.5}$.

2002 DATE/HOUR	PM2.5	SO4	NO3	NH4	EC	OM	A25
2002010100	14.8025	1.3307	4.7542	1.8792	0.9320	3.1156	2.7910
2002010101	15.3689	1.3787	5.2984	2.0551	0.8850	2.9497	2.8019
2002010102	16.6705	1.4380	5.7607	2.2116	1.0383	3.2216	3.0002
2002010103	17.4495	1.4135	6.0682	2.2917	1.1672	3.3952	3.1137
2002010104	18.2931	1.3158	6.2770	2.3157	1.4417	3.7457	3.1972
2002010105	19.1490	1.2872	6.5669	2.3892	1.5920	4.0079	3.3058
2002010106	20.2648	1.3094	6.8786	2.4880	1.7428	4.3646	3.4815
2002010107	21.6470	1.3800	7.1915	2.6053	1.9126	4.8193	3.7383
2002010108	23.0140	1.4724	7.4489	2.7147	2.0777	5.2884	4.0118
2002010109	23.9955	1.5170	7.5192	2.7518	2.2311	5.7673	4.2090
2002010110	22.7164	1.4829	7.3748	2.6971	1.9189	5.1758	4.0669
2002010111	19.0075	1.5060	6.7729	2.5310	1.2314	3.7132	3.2531
2002010112	16.8398	1.5920	6.0480	2.3528	1.0356	3.1239	2.6875
2002010113	14.7394	1.4883	5.1577	2.0554	0.9184	2.8217	2.2979
2002010114	14.7165	1.7929	4.5507	1.9933	0.9118	2.9348	2.5330
2002010115	18.3694	2.4379	4.7795	2.3016	1.4067	4.0730	3.3708
2002010116	25.1637	3.0168	5.2343	2.6509	2.6888	6.7227	4.8501
2002010117	26.7666	3.0794	5.4420	2.7346	2.9395	7.3119	5.2592
2002010118	27.4995	2.8928	5.7316	2.7487	3.0251	7.5641	5.5372
2002010119	27.5892	2.5784	6.2197	2.7725	2.9400	7.4624	5.6162
2002010120	27.6079	2.4022	6.9326	2.9134	2.6696	7.0359	5.6543
2002010121	28.0412	2.4297	7.7505	3.1610	2.3317	6.5527	5.8156
2002010122	28.5227	2.4908	8.4058	3.3742	2.1049	6.2427	5.9043
2002010123	28.4715	2.4801	9.0439	3.5554	1.8190	5.8264	5.7467
2002010200	28.5442	2.4498	9.6462	3.7187	1.6405	5.5451	5.5440
2002010201	28.5095	2.3856	10.1459	3.8397	1.5482	5.2945	5.2956
2002010202	27.9996	2.2779	10.5305	3.9106	1.4436	4.9544	4.8827
2002010203	27.1029	2.0935	10.8094	3.9222	1.3915	4.5832	4.3030
2002010204	26.5643	1.8992	11.0418	3.9170	1.4700	4.4141	3.8223
2002010205	26.6821	1.7940	11.2865	3.9487	1.5957	4.4630	3.5942
2002010206	27.7236	1.7927	11.5551	4.0265	1.7779	4.7855	3.7858
2002010207	29.2867	1.8215	11.8191	4.1141	1.9983	5.2701	4.2636
2002010208	31.0866	1.8323	11.9975	4.1701	2.3076	5.9724	4.8067
2002010209	32.1544	1.8350	11.9859	4.1678	2.5024	6.4990	5.1644
2002010210	32.4919	1.8761	11.7850	4.1249	2.5866	6.7837	5.3357
2002010211	30.5268	1.9863	11.4494	4.0688	1.9995	6.0451	4.9777

Data below is shown for year 2009 (projected controlled year), by hourly major species in µg/m³. The species A25 is primary un-speciated $PM_{2.5}$.

2009 DATE/HOUR	PM2.5	SO4	NO3	NH4	EC	OM	A25
2009010100	14.8876	1.3012	4.5373	1.8052	0.8266	2.9902	3.4270
2009010101	15.5982	1.3455	5.1189	1.9906	0.7798	2.9132	3.4501
2009010102	16.9447	1.4077	5.6291	2.1620	0.9286	3.1959	3.6215
2009010103	17.9199	1.3966	6.0175	2.2707	1.0499	3.4234	3.7618
2009010104	19.1311	1.3606	6.3414	2.3512	1.3040	3.8370	3.9368
2009010105	20.1977	1.3785	6.7085	2.4645	1.4501	4.1066	4.0895
2009010106	21.4533	1.4089	7.1108	2.5927	1.6039	4.4602	4.2768
2009010107	22.9384	1.4749	7.4603	2.7189	1.7765	4.9358	4.5720
2009010108	24.1541	1.5480	7.6171	2.7919	1.9399	5.4106	4.8466
2009010109	24.7023	1.5710	7.4795	2.7605	2.0888	5.8086	4.9940
2009010110	23.1497	1.5152	7.1775	2.6520	1.7875	5.2040	4.8135
2009010111	19.8690	1.5492	6.5987	2.4967	1.1423	3.8143	4.2679
2009010112	17.7946	1.5684	5.9031	2.3019	0.9705	3.3074	3.7432
2009010113	15.1120	1.3903	5.0817	1.9967	0.8669	2.8797	2.8967
2009010114	14.8956	1.5468	4.7077	1.9468	0.8624	2.9512	2.8806
2009010115	18.6337	2.2076	4.8671	2.2408	1.3461	4.1493	3.8228
2009010116	25.2866	2.8490	5.1714	2.5697	2.5839	6.7801	5.3325
2009010117	26.5864	2.9371	5.3500	2.6546	2.8013	7.3009	5.5427
2009010118	26.8451	2.7775	5.5809	2.6618	2.8683	7.4350	5.5216
2009010119	26.6377	2.5079	6.0007	2.6825	2.7749	7.2544	5.4172
2009010120	26.4796	2.3599	6.6394	2.8124	2.4986	6.8063	5.3630
2009010121	26.8580	2.4039	7.5016	3.0792	2.1531	6.3244	5.3959
2009010122	27.4114	2.4839	8.2222	3.3184	1.9236	6.0151	5.4483
2009010123	27.4115	2.4911	8.8209	3.4949	1.6514	5.6011	5.3521
2009010200	27.5247	2.4746	9.3355	3.6381	1.4889	5.3409	5.2467
2009010201	27.6184	2.4298	9.7513	3.7419	1.4061	5.1489	5.1404
2009010202	27.4627	2.3327	10.1203	3.8126	1.3089	4.8818	5.0064
2009010203	27.1154	2.1354	10.4421	3.8320	1.2688	4.6171	4.8201
2009010204	26.9430	1.8966	10.7264	3.8250	1.3460	4.5387	4.6102
2009010205	27.2242	1.7482	10.9961	3.8477	1.4665	4.6382	4.5274
2009010206	28.1514	1.7195	11.1761	3.8893	1.6420	4.9743	4.7503
2009010207	29.5240	1.7458	11.2989	3.9348	1.8551	5.4591	5.2302
2009010208	31.1821	1.7829	11.3681	3.9689	2.1481	6.1377	5.7762
2009010209	32.1814	1.8262	11.2908	3.9628	2.3377	6.6178	6.1461
2009010210	32.4737	1.8990	11.1115	3.9380	2.4279	6.8134	6.2838
2009010211	30.4246	2.0083	10.8156	3.8931	1.8801	5.8411	5.9864

$PM_{2.5}$ SIP

Appendix D

Meteorological Evaluation of Liberty-Clairton Area

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The Processing of CALMET Files for Allegheny County's PM2.5 SIP Analysis

Submitted to:

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November 9, 2007

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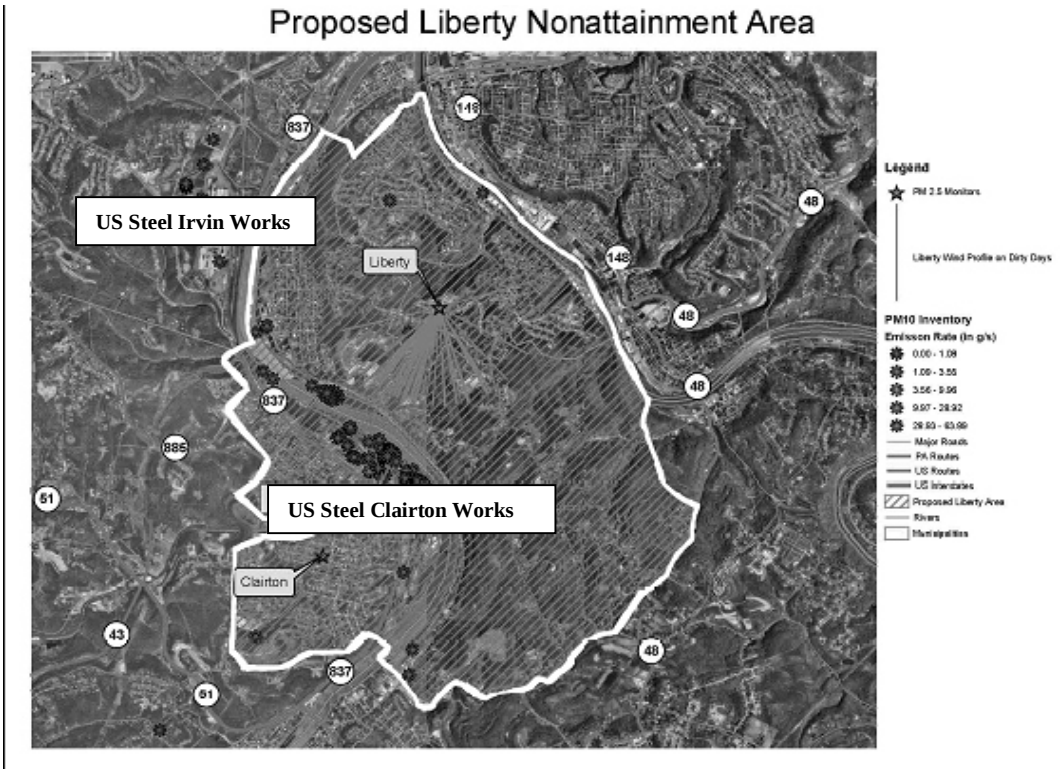
1.0 Introduction

Regulatory Background - On April 5, 2005, the U.S. EPA designated the Liberty/Clairton area (Boroughs of Liberty, Lincoln, Port Vue, Glassport, and the City of Clairton) as non-attainment for the fine particulates ($PM_{2.5}$) National Ambient Air Quality Standard (NAAQS). This non-attainment area is outlined in Figure 1. This designation requires the Allegheny County Health Department to submit a State Implementation Plans (SIP) by April 5, 2008. Sullivan Environmental provided support on processing the meteorological data for the Liberty/Clairton non-attainment area SIP. This report documents the CALMET modeling that was performed through this contract.

Figure 1: Clairton/Liberty Non-Attainment Area



(http://envirohealth.law.pitt.edu/journal/1_1/Luneburg.pdf)

Key Sources of PM2.5 Within Non-Attainment Area - The SIP demonstration will be based on calendar year 2002. The Allegheny County Health Department compiled a county-wide point source emission inventory report covering the period 1996-2003, which includes the base year of 2002. This inventory provides background on the magnitude and location of the key $PM_{2.5}$ sources in the Liberty/Clairton non-attainment area. Table 1 provides a summary of these key

sources, with the USX Clairton Works facility shown as the largest source within the boundary in Figure 1, and the USX Irvin plant (industrial source located just to the northwest of the non-attainment boundary in Figure 1) as a distant second based on total emissions. The other key sources identified in Table 1 are located well outside of the non-attainment area.

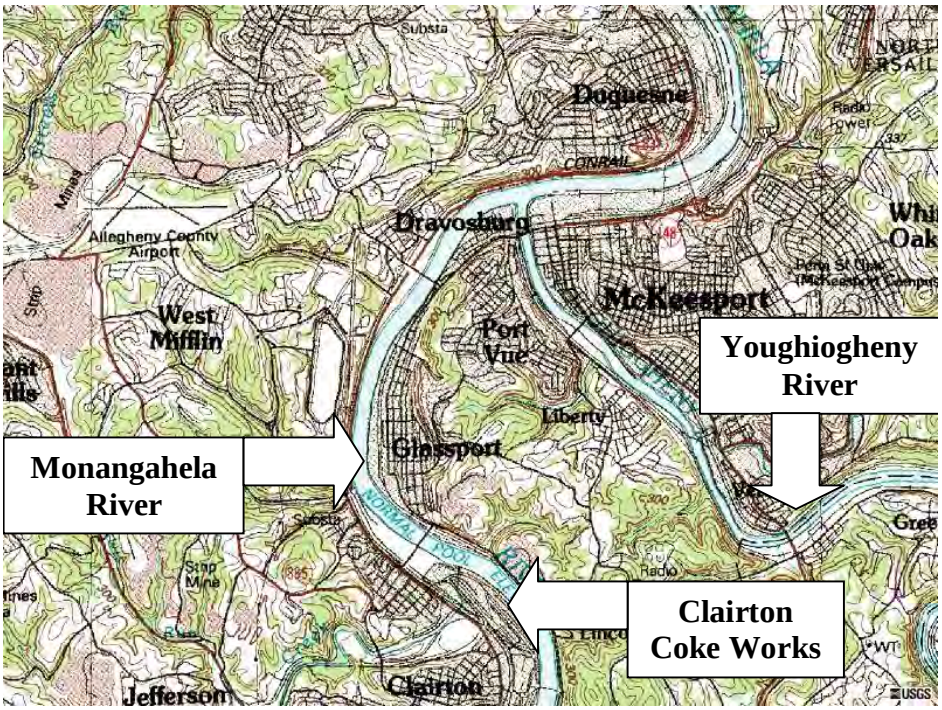
Table 1: Comparison of Point Source $PM_{2.5}$ Emissions (tons/year) from Key Emission Sources in Allegheny County (Hochhauser, 2004)

Year	USS – Clairton Works (Clairton)	USX Irvin Plant (Dravosburg)	Allegheny Ludlum (Brackenridge)	USS – Edgar Thompson (Braddock)	Cheswick Power Station (Cheswick)	Total for Allegheny County
1999	**351**	**29**	**327**	**266**	**196**	**1,768**
2000	**331**	**31**	**265**	**257**	**152**	**1,548**
2001	**311**	**26**	**211**	**194**	**117**	**1,218**
2002	**319**	**26**	**204**	**291**	**89**	**1,394**
2003	**328**	**24**	**211**	**308**	**187**	**1,551**

Complexity of Modeling Domain - Figure 2 presents a topographic map of the complex terrain of the Liberty/Clairton area, including the river valleys of the Monongahela and Youghiogheny Rivers. The Monongahela River valley with bluffs to the northeast in the direction of the prevailing southwesterly wind flow is one of the most significant complicating factors, particularly for the transport of emissions from the Clairton Works Facility.

From our previous work in this area, we have hypothesized that the Youghiogheny River valley may create a blocking effect that results in the Monangahela filling and not draining like a standard river valley. Based on the complexity of wind flow, and the need to account for the tremendous heat flux from the Clairton Works and the potential for low-level convergence flows, this non-attainment area is likely one of the most complex SIPs that will be prepared for $PM_{2.5}$ throughout the U.S. For this reason, CALMET needs to be set-up in a manner that most realistically represents the complex flows within the non-attainment area.

Figure 2: Topographic Map of the Liberty/Clairton Area



<u>Use of the CALPUFF / CALMET Modeling System</u> - CALPUFF (Scire et. al., 2000a) is a multi-layer, multi-species, non-steady-state puff dispersion model recommended by U.S. EPA within the Guideline for Air Quality Models for assessing long-range transport of pollutants and on a case by case basis for near-field applications involving complex meteorological conditions. First developed by Earth Tech, Inc. in the late 1980's, the model is maintained by the Atmospheric Studies Group (ASG) of TRC Companies Inc. (http://www.src.com/index.htm).

Allegheny County Health Department obtained a full year (2002) of Penn State/National Center for Atmospheric Research (NCAR) Mesoscale Modeling System - 5th Generation (MM5) data for the Ohio Valley region including eastern Ohio and western Pennsylvania. The MM5 temperature and wind profile data were primarily developed for weather forecasting. Use of more accurate Land Use Land Cover (LULC) data has the potential to improve the ability of this model to simulate heat flux and wind flow at a finer spatial scales of analysis. This can lead to improved exposure assessment and public health management.

Geophysical data required by CALMET (Scire et. al., 2000b) includes elevation, LULC type, surface roughness length, albedo, Bowen ratio, soil heat flux, vegetation leaf area index and anthropogenic heat flux. The data are incorporated within CALMET through various processors, which determine the average surface elevation, fractional and dominant land use, as well as the

weighted surface parameters for each grid cell. The model is capable of processing 52-category USGS LULC data in which land use code is defined at the center point of each cell which are spaced 100 meters apart.

High (30m) resolution 1992 United States Geological Society (USGS) National Land Use Cover Data (NLCD) were obtained and processed through the CALMET CTGPROC geophysical preprocessor to derive the fractional land use types within each 100m grid block within the model domain.

CALMET is flexible enough to allow the user to specify LULC-dependent values for each surface parameter. It also allows the user to define new LULC categories by remapping the USGS LULC categories. For example, the USGS land use category system has seven types of urban or built-up land and these would have been mapped to one land use category for urban or built-up land in CALMET, if using the 14-category LULC.

2.0 Existing Meteorological Monitoring Sites within the Greater Pittsburgh Area

During the period of April 29-30, 2007 and Jun 16, 2007, Sullivan Environmental inspected the following meteorological sites in the greater Pittsburgh area:

- Liberty
- South Fayette
- Avalon
- Hammer Field
- Clairton USC
- Allegheny County Airport
- Greater Pittsburgh International Airport

The following summarizes the review of each site:

Liberty – This site is located within the non-attainment area. The meteorological tower is positioned on the roof of a two-story school building. The roof level is 24 ft AGL. The sensor exposure height is 43 ft above the roof, and 67 ft AGL. The exposure height is beyond the 2.5 building height zone. Therefore, no significant building influences are expected with this data set. Some deciduous trees were observed towards the south side of the school, which may have a marginal effect on the representativeness of wind data from this sector.

Figure 3: Liberty Site Aerial View

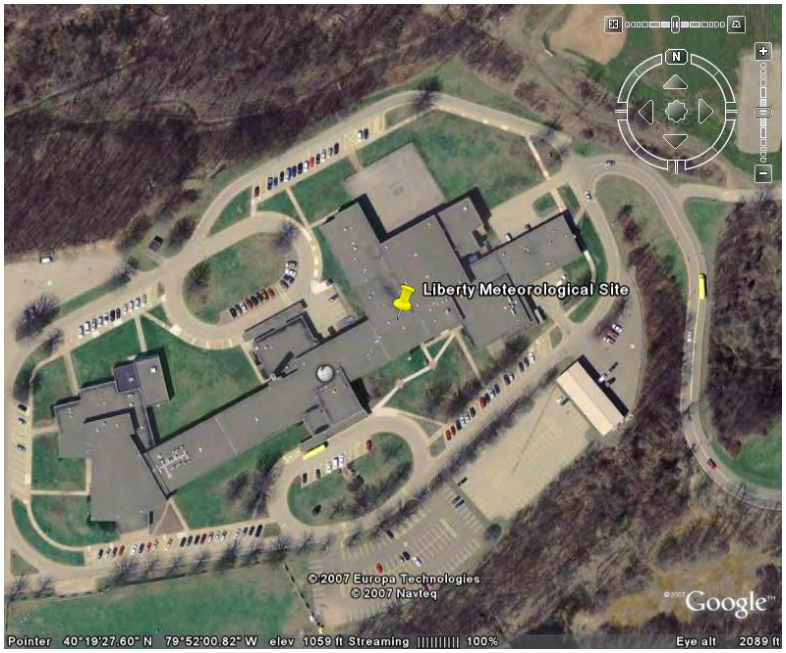
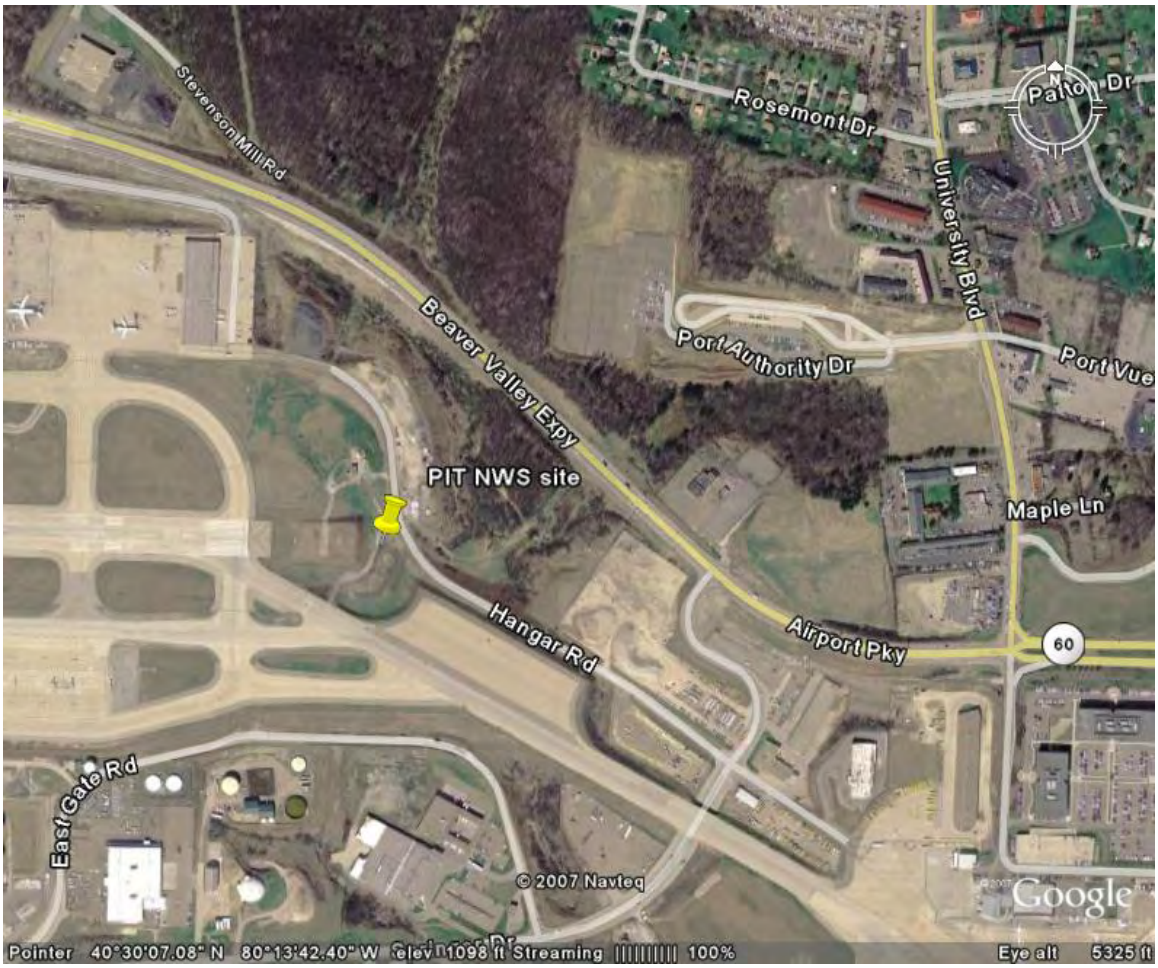


Figure 4: Liberty Site View from the South of the Tower

Greater Pittsburgh International Airport – During the site visit, we were not able to locate the tower. Subsequent review based on Google-Earth, showed the following location (based on NWS stated coordinates 40° 30' 5" and 80° 13' 52". This location is in an open area to the North and East of most of the airport operations, and is well removed from buildings. There are some trees evident to the East. Otherwise the location appears to be clear. This location, however, is well removed from the modeling domain of the CALMET analyses.

Height = 12 m

Figure 5: Aerial View of the Greater Pittsburgh International Airport



South Fayette - The South Fayette site is located at a school building in a very rural area and at a relatively high elevation. The monitors are on top of a short (~6 ft mast) that was placed on a ~27 foot rooftop. The monitors are positioned at the Northeast corner of the rooftop. Although this general location is well sited to cover regional flow, the sensor height above rooftop is a concern. There will be some adverse influence from flow over the structure. The site is also located well outside of the 20 km model domain. For this reason, this site was not considered to have data of sufficient quality to support the CALMET analysis.

Figure 6: South Fayette Site (View from Northeast)

Avalon – The Avalon site is a suburban location embedded within a community with tightly packed residences, with a high surface roughness value, e.g. in the estimated range of approximately 60-80 cm. The wind sensors appear to be set at a 10m height. There is a church approximately 20m to the west and a building about 40m to the east. Both of these structures are approximately at the same height as the sensors. There will be some reduction in wind flow caused by these structures, but this area would be expected to have lower wind speeds than for more open areas. The site is representative, however of this type of setting. Avalon is located, however, outside of the CALMET modeling domain.

Figure 7: Buildings to the East of the Avalon Site

Figure 8: Avalon Site

Hammer Field – The Hammer Field site is overgrown with tree cover that precludes the use of the data from this site for CALMET. There is a deciduous tree line to the East that would adversely affect the wind flow from North through the Southeast, especially during the period of May through October when there is substantial leaf area.

Figure 9: Hammer Field Site View from the South

Figure 10: Aerial View of Hammer Field Site

Current USX Clairton Meteorological Monitoring Site

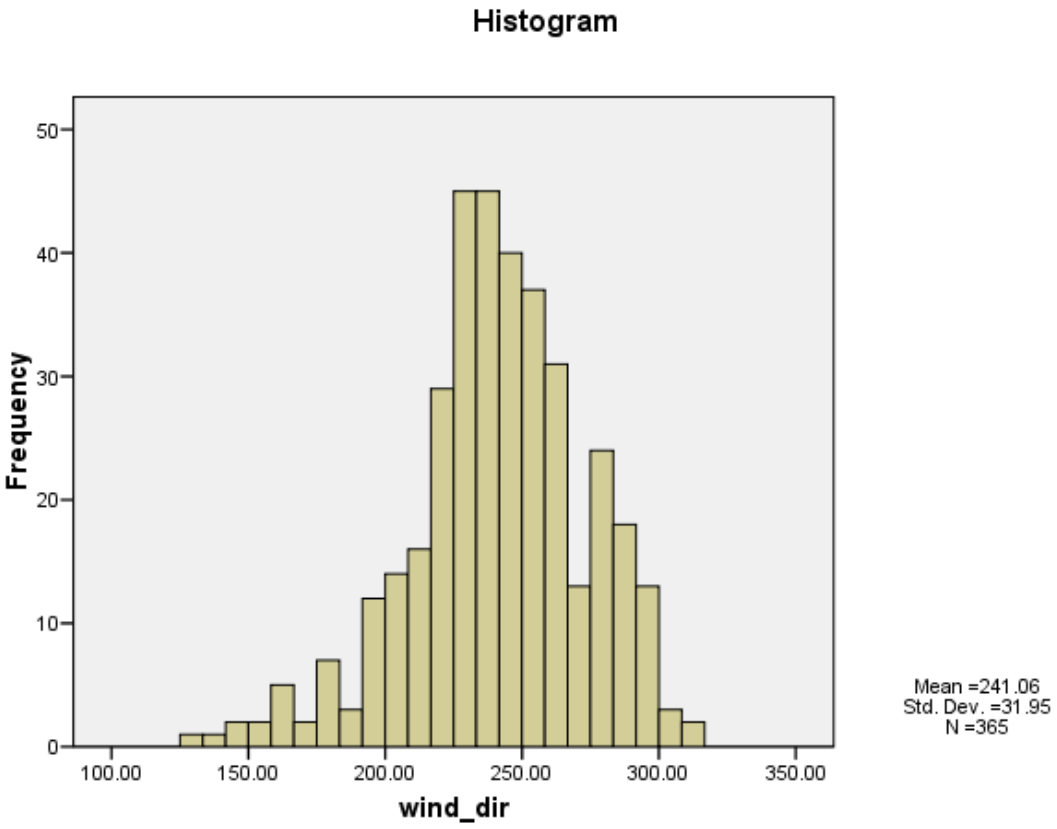
Data from the current USX Clairton meteorological monitoring station (see Figure 11) was initially reviewed based on daily processed averages. Figure 12 shows an example of wind direction frequencies for calendar year 2002. As shown, the wind direction data are heavily clustered within flow from 210 to 270 degrees (about 68 percent of the total flow). No prevailing daily flow is shown on this basis for 1 through 120 degrees, and only 2 percent of the days with prevailing daily flow from 300 through 360 degrees. Cursory review of 2001 and 2003 showed similar heavy weighting from the southwest.

Hourly data from the USX Clairton for the period of August 13- December 31, 2002 as well as a full-year of 2003 was later provided to Sullivan Environmental for review. A more detailed description of this hourly data and its use is provided in Section 8.0 of this report.

Height = 10 m

Figure 11: Existing USX Clairton Works Meteorological Monitoring Site

Figure 12: Histogram of Daily Predominant Flow for Calendar Year 2002



Allegheny County Airport – The ASOS meteorological tower is located among the runway areas with a very open exposure. The area is generally flat and rural. This location provides excellent data for use in CALMET.

Height = 12 m

Figure 13: Allegheny County Airport View from the South

In summary, the Liberty and Allegheny County Airport meteorological monitoring sites were selected for use as input data sets to CALMET. Avalon and the Greater Pittsburgh International Airport sites were evaluated and found to be reasonably representative of flow within the region, but these locations were outside of the final, selected modeling grid for CALMET. The Hammer Field and South Fayette sites were not judged to be of suitably quality for use in the analysis. The hourly USX Clairton meteorological was later chosen for use in the model analysis and the details of that data inclusion is presented in Section 8.0 of this report.

3.0 Surface Characteristics within the Modeling Domain

This section is subdivided into two major subsections: (a) surface roughness estimates, and (b) other surface characteristics.

a. Land Use

The Lettau, 1969[1] method was used to estimate roughness length. The Lettau method is based on the following formula:

$$z_0 = \frac{(1/2)(H)(a)}{A}$$

Where:

Z_0 = aerodynamic roughness length (m)

H = average obstacle height (m)

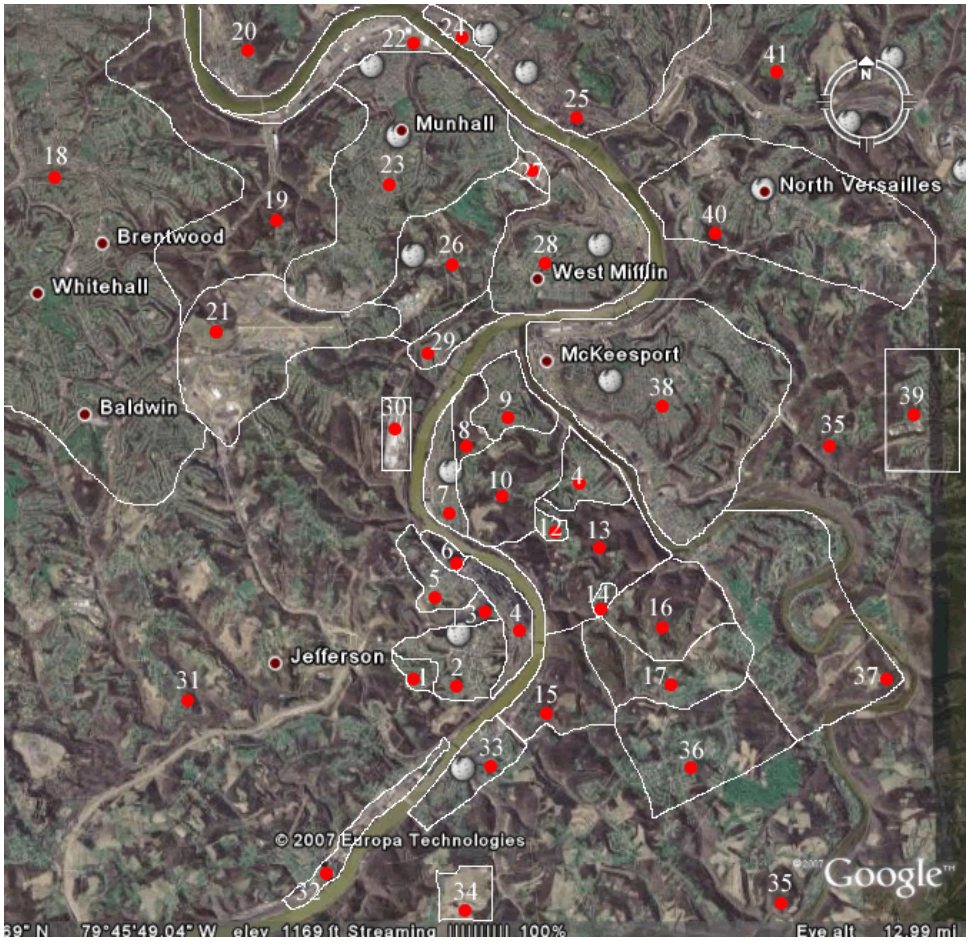
a = average silhouette area (m^2)

A = average lot area (m^2) = (total area evaluated / number of representative obstacles)

Figure 14 shows the modeling domain subdivided into 41 relatively homogenous zones. The following analysis was conducted for those zones that had significant residential, commercial, or industrial property, which was amenable to the method:

[1] Lettau, H., "Note on Aerodynamic Roughness-Parameter Estimation on the Basis of Roughness-Element Description," Journal of Applied Meteorology, 1969, Pages 828 – 832.

Figure 14: Sub-regions within the Modeling Domain That Were Evaluated for Surface Roughness



A representative subsection was selected within each zone, i.e. 300m by 300m. The number of buildings within the sample area was identified, and then the "A" and "a" terms were computed based on the preceding formula. An average building height of 8m was assigned for the residential areas, and 10 m for industrial areas, respectively. . Table 2 presents the computational spreadsheet that was used for this analysis.

Table 2: Computational Spreadsheet for Regions (Sheet 1 of 2)

Region	Type	Perimeter (mi)	Total Area m^2	Total Area mi^2	Sample Area	Buildings in Sample Area	Sample Building area (m^2)
1	Mixed Residential/Forest	1.82	383,033	0.15	n/a	n/a	n/a
2	**Residential**	4.43	2,741,661	1.06	46,694	50	146
3	Mixed Residential/Barren	1.44	303,641	0.12	n/a	n/a	n/a
4	Industrial	4.53	1,416,015	0.55	991,211	40	600
5	**Mostly Residential/Woods**	3.47	1,120,812	0.43	34,669	29	146
6	Mixed Industrial/Coal Pile	1.65	275,980	0.11	n/a	n/a	n/a
7	**Residential**	3.96	1,200,000	0.5	17,734	44	146
8	Forest	2.91	718,299	0.28	n/a	n/a	n/a
9	**Residential**	5.76	2,748,582	1.06	49,855	54	146
10	Mixed Forest/Barren/Residential	5.15	3,087,656	1.19	287,031	11	146
11	**Residential**	3.18	1,291,405	0.5	38,619	38	146
12	Mostly Residential	1.3	239,288	0.09	n/a	n/a	n/a
13	Forest	7.85	4,499,925	1.74	4,499,925	40	146
14	Mixed Forest/Residential	1.21	122,785		122,785	22	146
15	Mixed Forest/Residential	5.41	4,134,633	1.6	4,134,633	80	146
16	Forest/Hills	4.24	3,198,926	1.24	n/a	n/a	n/a
17	Forest/Cropland/Residential	4.86	2,801,357	1.08	114,250	21	146
18	**Residential**	19.45	34,958,895	13.5	39,706	54	146
19	Forest/Residential	14.19	11,938,847				
20	Residential/Forest/Barren	4.62	3,180,327		73,514	59	111
21	Barren/Runways/Airport	8.3	6,849,235				
22	Industrial	6.92	1,699,197		339,839		6976
23	**Residential**	11.83	14,695,522		28,218	37	146
24	Barren/Industrial	2.27	454,283				
25	Residential/Wooded	8.07	7,609,588		74,561	81	146
26	Wooded/Cropland/Residential	6.67	5,197,661		66,715	8	146
27	Golf Course	1.63	419,115				
28	**Residential**	7.63	7,733,346		16,856	18	146
29	Residential/Wooded	2.26	536,265		15,469	13	146
30	Industrial	2.04	509,617				
31	Wooded/Cropland	24.47	82,882,447		1,470,939	103	146
32	Industrial	7.66	1,776,918		355,384		
33	**Residential**	4.24	2,215,515		26,368	13	146
34	Barren	2.36	892,996				
35	Wooded/Cropland	36.49	70,638,199		341,298	29	146
36	Residential/Cropland/Wooded	6.37	5,574,775		84,988	21	146
37	Wooded/Cropland/Residential	8.79	12,644,486		211,502	49	146
38	**Residential Mostly**	10.27	15,907,104		25,685	15	146
39	**Residential Mostly**	3.24	1,599,206		51577	21	146
40	Residential/Wooded	0.63	63,351		63351	25	146
41	Woods/Residential	13.59	15,840,865		308,674	64	146

Table 2: Computational Spreadsheet for Regions (Sheet 2 of 2)

Type	A	a	H	Zo
Mixed Residential/Forest	n/a	n/a		n/a
Residential	933.88	96.66	8	0.41
Mixed Residential/Barren	n/a	n/a	n/a	n/a
Industrial	24,780.26	195.96	10	0.21
Mostly Residential/Woods	1,195.48	96.66	8	0.32
Mixed Industrial/Coal Pile	n/a	n/a	10	n/a
Residential	403.05	96.66	8	0.96
Forest	n/a	n/a	n/a	n/a
Residential	923.24	96.66	8	0.42
Mixed Forest/Barren/Residential	26,093.73	96.66	8	0.01
Residential	1,016.29	96.66	8	0.38
Mostly Residential	n/a	n/a	n/a	n/a
Forest	112,498.13	96.66	8	0.00
Mixed Forest/Residential	5,581.14	96.66	8	0.07
Mixed Forest/Residential	51,682.91	96.66	8	0.01
Forest	n/a	n/a	n/a	n/a
Forest/Cropland/Residential	5,440.48	96.66	8	0.07
Residential	735.30	96.66	8	0.53
Forest/Residential	n/a	n/a	n/a	n/a
Residential/Forest/Barren	1,246.00	84.29	8	0.27
Barren/Runways/Airport	n/a	n/a	n/a	n/a
Industrial	n/a	n/a	n/a	n/a
Residential	762.65	96.66	8	0.51
Barren/Industrial	n/a	n/a	n/a	n/a
Residential/Wooded	920.51	96.66	8	0.42
Wooded/Cropland/Residential	8,339.38	96.66	8	0.05
Golf Course	n/a	n/a	n/a	n/a
Residential	936.44	96.66	8	0.41
Residential/Wooded	1,189.92	96.66	8	0.32
Industrial	n/a	n/a	n/a	n/a
Wooded/Cropland	14,280.96	96.66	8	0.03
Industrial	n/a	n/a	n/a	n/a
Residential	2,028.31	96.66	8	0.19
Barren	n/a	n/a	n/a	n/a
Wooded/Cropland	11,768.90	96.66	8	0.03
Residential/Cropland/Wooded	4,047.05	96.66	8	0.10
Wooded/Cropland/Residential	4,316.37	96.66	8	0.09
Residential Mostly	1,712.33	96.66	8	0.23
Residential Mostly	2,456.05	96.66	8	0.16
Residential/Wooded	2,534.04	96.66	8	0.15
Woods/Residential	4,823.03	96.66	8	0.08

As described above, the Lettau method (Lettau, 1969) was applied to compute surface roughness values for residential, commercial, and industrial area based on silhouette area, and plot area for representative samples in the common zones shown in Figure 14. Some areas, however, such as forested areas, pasture land, etc., are not amenable to this method and defaults were established that are appropriate for the modeling domain. The average residential, commercial, and industrial land use types were established based on assigning representative values from the Lettau analysis. Note that it is not feasible to account for the

differences in the treatment of residential, commercial, or industrial within the 41 zones throughout the study area. This would require manual manipulation of 160,000 cells (approximately 40,000 grid cells by four seasons). Although some refinements clearly could be made, the averaging approach was deemed representative and appropriate for the specific modeling domain. Rather, representative values were selected from the surface roughness analysis, as well as for the other surface characteristics required in CALMET.

The Clairton plant industrial site sub-region (applicable to primary location of buoyant sources) was used to represent the surface roughness of the overall Clairton Works, as other industrial areas within the modeling domain.

b. Other Surface Characteristics

The CALMET user's guide (Scire et. al., 2000b) shows in Table 4-45 the default data to define surface characteristics (Table 3). These values, complemented by relative seasonal factors based on the AERMET user's guide (EPA, 2004) were used to define annual average values for the modeling domain (Table 4). As a starting basis, the following annual defaults were compiled for each significant land use category within the modeling domain:

Table 3: Annual Average CALMET Default Surface Characteristics (Sheet 1 of 2)

CALMET DEFAULTS

Land Use Type	Description	Albedo	Bowen Ratio	Soil Heat Flux	Anthropogenic Heat Flux	Leaf Area
11	RESIDENTIAL	0.19	1.20	0.19	5.00	1.68
13	INDUSTRIAL	0.18	1.50	0.25	30.00	0.00
15	INDUSTRIAL AND COMMERCIAL COMPLEXES	0.18	1.50	0.25	5572.73	0.00
21	CROPLAND AND PASTURE	0.15	1.00	0.15	0.00	3.00
41	DECIDUOUS FOREST LAND	0.10	1.00	0.15	0.00	7.00
42	EVERGREEN FOREST	0.10	1.00	0.15	0.00	7.00
43	MIXED FORESTLAND	0.10	1.00	0.15	0.00	7.00
52	LAKES (RIVERS)	0.10	0.00	1.00	0.00	0.00
75	STRIP MINES, QUARRIES, AND GRAVEL PITS	0.30	1.00	0.15	0.00	0.05
76	TRANSITIONAL AREAS	0.22	1.25	0.20	0.00	0.35

Table 3: Annual Average CALMET Default Surface Characteristics (Sheet 2 of 2)

Surface roughness (m) Defaults	CALMET Classification Types
0.6200	40% Urban/40% Rangeland/20% Forest
0.2060	Urban
0.2060	Clairton map user-calculated values
0.2500	Agricultural Land - Unirrigated
1.0000	Forest Land
1.0000	Forest Land
1.0000	Forest Land
0.0010	Small Water Body
0.0500	Barren Land
0.5250	50% Urban/50% Rangeland

Table 4: AERMET Averages for All Seasons

AERMET ANNUAL AVERAGES

Land Use Type	Description	Albedo	Bowen Ratio	Soil Heat Flux	Anthropogenic Heat Flux	Leaf Area
11	RESIDENTIAL	0.23	1.18	0.19	5.00	1.64
13	INDUSTRIAL	0.22	1.70	0.25	30.00	0.00
15	INDUSTRIAL AND COMMERCIAL COMPLEXES	0.22	1.70	0.25	5572.73	0.00
21	CROPLAND AND PASTURE	0.24	0.63	0.15	0.00	3.00
41	DECIDUOUS FOREST LAND	0.19	0.80	0.15	0.00	7.00
42	EVERGREEN FOREST	0.18	0.70	0.15	0.00	5.50
43	MIXED FORESTLAND	0.19	0.75	0.15	0.00	6.25
52	LAKES (RIVERS)	0.18	0.23	1.00	0.00	0.00
75	STRIP MINES, QUARRIES, AND GRAVEL PITS	0.31	4.75	0.15	0.00	0.04
76	TRANSITIONAL AREAS	0.24	1.28	0.20	0.00	0.58

Surface roughness (m) averaged to domain	AERMET Classification Types
0.6070	40% Urban/40% Grassland/20% Deciduous Forest
0.2060	Urban
0.2060	Clairton map user-calculated values
0.0550	Cultivated Land
0.9500	Deciduous Forest
1.3000	Coniferous Forest
1.1250	Mixed Forest (50% Deciduous/50% Coniferous)
0.0010	Water (Fresh and Sea)
0.2625	Desert Shrubland
0.5213	50% Urban/50% Grassland

The following default assumptions were made:

- Transportation / communication corridors were treated as range land (CALPUFF guidance) and grass land (AERMET guidance)
- Cropland and pasture were treated as agricultural land unirrigated (CALPUFF guidance) and grassland (AERMET guidance)
- Mixed forests were treated as the averages of deciduous and evergreen forests)
- Forested wetlands (just 1 grid cell) was defaulted to deciduous forest values
- Strip mines / quarries was defaulted to barren land (CALPUFF guidance)

The annual average anthropogenic heat flux value was based on Piringer & Joffre[2], which shows typical urban/suburban values of 15 watts / m^2. This value was considered excessive for the population density in the Clairton area. Under the conditions specified for discussion temperate climate, summer)typical daily average values of QF (anthropogenic heat flux) range from about 5 watts / m2 in the suburb to 50 w / m2 in the city centre, and show about a three-fold increase from night to daytime (e.g. Kalma et. al, 1972 for Syndey, Austrailia). On most occasions such figures will lie within the precision to which the balance can be evaluated and can therefore be neglected. We used Five watts / m^2 as a default value to represent residential areas within the model domain.

The industrial surfaces (with the exception of the USX Clairton Works, which was assigned a separate category) were assigned an anthropogenic heat flux of 30 watts / m^2, which is consistent with city periphery from Piringer & Joffre. This is a relatively insensitive term, but was included for completeness. Oke, 1978[3] was used as the basis to assign seasonal heat flux factors (using New York City, which has a similar latitude as Pittsburgh), which resulted in seasonal scaling factors as follows:

Season	Seasonal Scaling Factor Anthropogenic Heat Flux
Spring	1.0
Summer	0.3
Autumn	1.0
Winter	1.7

[2] Piringer, Martin, and Sylvain Joffre, Urban Surface Energy Budget in European Cities, Final Report of Working Group 2 of Cost 715 Action, 2005

[3] Oke, T.R., "Boundary Layer Climates," Methuen & Co. Ltd, Table 8.1, 1978.

The leaf area index is generally computed based on the ratio of the upper leaf surface over the total area evaluated. The annual estimates were based on the CALMET user's guide, as shown in Table 5. The annual estimated value for residential areas was defaulted to the average of agricultural land–un-irrigated and urban (to account for partial vegetation within residential properties (grass, trees, gardens, shrubs, etc.).

The seasonal estimates were defaulted based on interpretation of seasonal variability shown in the Hanson, 2005. Coniferous forests were assigned seasonal scalars of 1.0 for all seasons. The following seasonal scalars for deciduous trees were developed from Hanson, 2005:

Table 5: Seasonal Scaling Factors for LAI

Season	Seasonal Scaling Factor LAI
Spring	2.0
Summer	1.0
Autumn	1.0
Winter	0.0

The grassland seasonal values were used to represent residential, crops / pastures, and transportation corridors. Urban, commercial, industrial, water, and strip mines / quarries were set to seasonal factors of 1.0 as defaults (i.e. not applicable in this case).

The annual average values were then adjusted on a seasonal basis primarily based on review of AERMET seasonal ratios. Many of the input terms are adjusted in winter to account for snow cover. For example, the winter values in AERMET assume snow/ice covered conditions during the winter months. In Allegheny County, the snow/ice cover category occurs approximately one-third of the time, i.e. 33 days during the winter season based on climatological data from 1941 through 1970. As a first approximation, weighting of winter conditions was assigned a double weighting for autumn and single weighting for winter for all of the surface parameters. The annual average values were adjusted by seasonal scaling factors based on the ratio of the specific seasonal average over the annual average. Note that the transitional land use category was assigned default values that were representative of average values within the modeling domain.

Wetlands data shown in Table 1 above are representative of non-forested wetlands. Based on review of the modeling domain, it is evident that the assignment of wetlands in the NLCD LULC data-base is not correct in terms of current land use. Many of these areas are now used for industrial and recreational purposes. To refine the analysis, these areas were manually reassigned to transitional areas (category 76) as a more appropriate default. One grid cell within the 40,000 was assigned as forested wetlands. This cell was not reassigned.

Transportation corridors were reassigned to be more representative of the modeling domain. These corridors were defaulted to rangeland characteristics with the exception that the surface roughness in this setting was defaulted to 0.25 m to account for mixed

characteristics of natural grass surfaces and larger obstructions to flow that would be encountered at the fringes of the corridors.

Tables 6 through 9 present the seasonal tables that were used in the seasonal input files to CALMET:

Table 6: Spring

Land Use Type	Description	AERMET Albedo	Estimated Albedo	AERMET Bowen Ratio	Estimated Bowen Ratio	AERMET Leaf Index	Estimated Leaf Index	AERMET Surface Roughness
11	RESIDENTIAL	0.15	0.13	0.70	0.71	1.68	1.72	0.62
13	INDUSTRIAL	0.14	0.12	1.00	0.88	0.00	0.00	0.20
15	INDUSTRIAL AND COMMERCIAL COMPLEXES	0.14	0.12	1.00	0.88	0.00	0.00	0.21
21	CROPLAND AND PASTURE	0.14	0.09	0.30	0.48	3.00	3.00	0.03
41	DECIDUOUS FOREST LAND	0.12	0.06	0.70	0.88	7.00	7.00	1.00
42	EVERGREEN FOREST	0.12	0.07	0.70	1.00	7.00	8.91	1.30
43	MIXED FORESTLAND	0.12	0.06	0.70	0.93	7.00	7.84	1.15
52	LAKES (RIVERS)	0.12	0.07	0.10	0.00	0.00	0.00	0.001
75	STRIP MINES, QUARRIES, AND GRAVEL PITS	0.30	0.29	3.00	0.63	0.05	0.07	0.30
76	TRANSITIONAL AREAS	0.16	0.15	0.70	0.69	0.35	0.21	0.53

Table 7: Summer

Land Use Type	Description	AERMET Albedo	Estimated Albedo	AERMET Bowen Ratio	Estimated Bowen Ratio	AERMET Leaf Index	Estimated Leaf Index	AERMET Surface Roughness
11	RESIDENTIAL	0.16	0.14	1.18	1.20	3.20	3.28	0.70
13	INDUSTRIAL	0.16	0.13	2.00	1.76	0.00	0.00	0.20
15	INDUSTRIAL AND COMMERCIAL COMPLEXES	0.16	0.13	2.00	1.76	0.00	0.00	0.21
21	CROPLAND AND PASTURE	0.20	0.12	0.50	0.80	6.00	6.00	0.10
41	DECIDUOUS FOREST LAND	0.12	0.06	0.30	0.38	14.00	14.00	1.30
42	EVERGREEN FOREST	0.12	0.07	0.30	0.43	7.00	8.91	1.30
43	MIXED FORESTLAND	0.12	0.06	0.30	0.40	10.50	11.76	1.30
52	LAKES (RIVERS)	0.10	0.06	0.10	0.00	0.00	0.00	0.001
75	STRIP MINES, QUARRIES, AND GRAVEL PITS	0.28	0.27	4.00	0.84	0.05	0.07	0.30
76	TRANSITIONAL AREAS	0.17	0.15	1.40	1.37	1.35	0.82	0.55

Table 8: Autumn

Land Use Type	Description	AERMET Albedo	Estimated Albedo	AERMET Bowen Ratio	Estimated Bowen Ratio	AERMET Leaf Index	Estimated Leaf Index	AERMET Surface Roughness
11	RESIDENTIAL	0.18	0.15	1.40	1.42	1.68	1.72	0.56
13	INDUSTRIAL	0.18	0.15	2.00	1.76	0.00	0.00	0.20
15	INDUSTRIAL AND COMMERCIAL COMPLEXES	0.18	0.15	2.00	1.76	0.00	0.00	0.21
21	CROPLAND AND PASTURE	0.18	0.11	0.70	1.12	3.00	3.00	0.05
41	DECIDUOUS FOREST LAND	0.12	0.06	1.00	1.25	7.00	7.00	0.80
42	EVERGREEN FOREST	0.12	0.07	0.80	1.14	7.00	8.91	1.30
43	MIXED FORESTLAND	0.12	0.06	0.90	1.20	7.00	7.84	1.05
52	LAKES (RIVERS)	0.14	0.08	0.10	0.00	0.00	0.00	0.001
75	STRIP MINES, QUARRIES, AND GRAVEL PITS	0.28	0.27	6.00	1.26	0.05	0.07	0.30
76	TRANSITIONAL AREAS	0.19	0.17	1.50	1.47	0.60	0.37	0.51

Table 9: Winter

Land Use Type	Description	AERMET Albedo	Estimated Albedo	AERMET Bowen Ratio	Estimated Bowen Ratio	AERMET Leaf Index	Estimated Leaf Index	AERMET Surface Roughness
11	RESIDENTIAL	0.42	0.35	1.44	1.46	0.00	0.00	0.54
13	INDUSTRIAL	0.39	0.32	1.80	1.59	0.00	0.00	0.20
15	INDUSTRIAL AND COMMERCIAL COMPLEXES	0.39	0.32	1.80	1.59	0.00	0.00	0.21
21	CROPLAND AND PASTURE	0.45	0.28	1.00	1.60	0.00	0.00	0.04
41	DECIDUOUS FOREST LAND	0.40	0.21	1.20	1.50	0.00	0.00	0.70
42	EVERGREEN FOREST	0.37	0.20	1.00	1.43	1.00	1.27	1.30
43	MIXED FORESTLAND	0.38	0.21	1.10	1.47	0.50	0.56	1.00
52	LAKES (RIVERS)	0.34	0.19	0.60	0.00	0.00	0.00	0.001
75	STRIP MINES, QUARRIES, AND GRAVEL PITS	0.39	0.38	6.00	1.26	0.00	0.00	0.15
76	TRANSITIONAL AREAS	0.42	0.39	1.50	1.47	0.00	0.00	0.51

4.0 Heat Analysis of USX Clairton Sources

The areas of the boilers and batteries and the area where the railcars transport the coke to the quench towers were summed and the heat flux values from the plant and from the combustion of the coke in air were calculated. From these values, the anthropogenic heat flux values were calculated in terms of watts/square meter. This was applied only to the areas within the plant the generated large amounts of heat (see Figure 15). The heat flux values calculated were based on calculations provided by the Clairton USX plant (see Table 10) and converted to watts/square meter.

Figure 15: Location of Heat Sources and Area Sources Defined by Grid Area

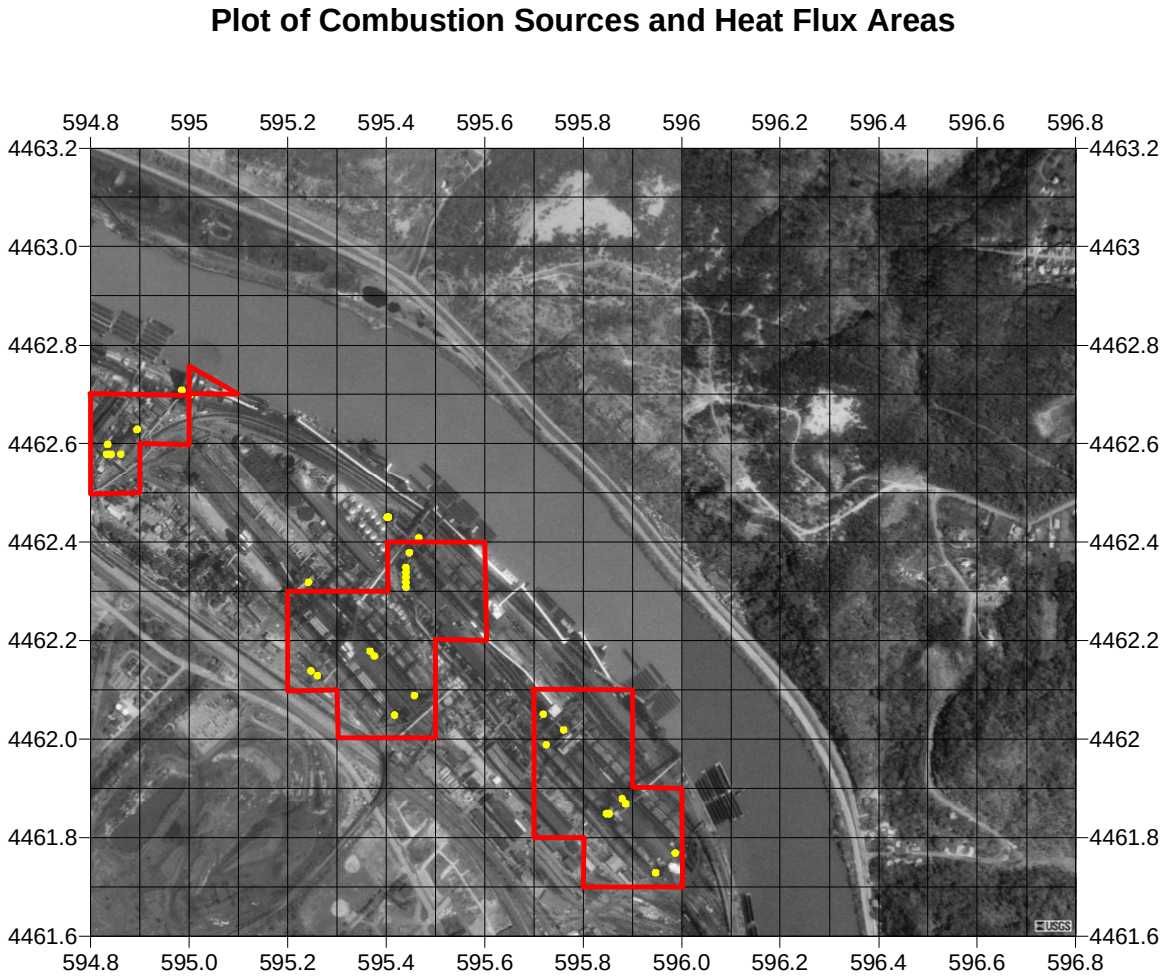


Table 10: Summary Heat Release Estimates

SUMMARY HEAT RELEAS ESTIMATES PUSHING, SOAKING & DECARB

June 27, 2007

	MMBTU / DAY		EQUIVALENT COG
	GROSS	NET	(MMCFD) [1]
PUSHING	2,237	2,053	4.56
SOAKING	331	285	0.66
DECARB	1,907	1,907	4.24
TOTAL	**4,474**	**4,244**	**9.46**

---

[1] EQUIVALENT COG EXPRESSED AS MILLION CUBIC FEET AT 500 GROSS BTU PER CUBIC FOOT

Comparative Value:	
Small Battery Underfiring Consumption Rate:	
Coke Prod'n - tons / day	830
Coal Cons - tons / day	1,186
UF consumption - Btu / lb coal	1,100
UF Heating Value - Btu/CF	500
UF consumption - MMCF / day	**5.22**

Calculations are provided below for the area sources that are the sources of the heat fluxes, including the amount of heat produced by the plant during the coking operation plus the heat produced by combustion from the pushing operation.

Total Area of Plant	142500	square meters
Total Heat Produced	794114206	Watts
Heat Flux	5572.73	Watts/m^2

5.0 Coordinate Problems / Resolution

The original emission inventory data for the model domain was developed using older NAD27 coordinate system for the Universal Transverse Mercator (UTM) coordinates of the source locations. The most current USGS mapping systems use NAD83 coordinates. In order to maintain consistency among all mapping system, land use and terrain data, all CALMET preprocessors were set to derive the NAD83 coordinates during the data processing. The coordinates for the emission inventory data within CALPUFF was also converted into the NAD83 coordinate system.

6.0 Potential for Low-Level Convergence During Stable Nocturnal Conditions

Two sources of information were reviewed to evaluate the potential for low-level convergence caused by the rising heat plumes, which would be expected to be most evident during light wind speed, nocturnal conditions: (1) the special meteorological study of 1996; and (2) data from the USX site for the period of 1995 through 1996.

Special Meteorological Study of 1996 – Appendix B contains this study report. Although a very short-term study and based on visual evidence rather than an intensive array of meteorological sensors, some useful information can be obtained by reviewing these historical records. Review of limited streamlines (see Figures 16 and 17 as examples) shows the potential for up-valley flow towards the heat sources at the coke facility. Down-valley flow would be towards the northwest at the Clairton Works. Note that the most westerly flow vector is located at the approximate location of the USX Clairton meteorological monitoring site. The limited data showed intermittent periods with flow up-river towards the heat sources. The SODAR data that were available concurrent to this study showed that any convergence was below the 50m level.

Figure 18 represents visual observations taken during the early morning hours of March 26, 1996. During this stable period strong down-valley flow was observed at the Youghiogheny River but weak up-valley flow down river from the USX Clairton facility. It has been hypothesized that blocking flow by the Youghiogheny River possibly coupled with low-level convergence near the plant (likely caused by the rising heat plumes) is creating the complex low-level flow during nocturnal conditions. Site-specific meteorological monitoring with low threshold wind systems would be needed to refine the available data-base, with coverage within both the Youghiogheny and Monongahela valley floors.

Figure 16: Flow Vectors (12/5/1995 0530)

Figure 4: Streamlines for December 5, 1995 (0530)

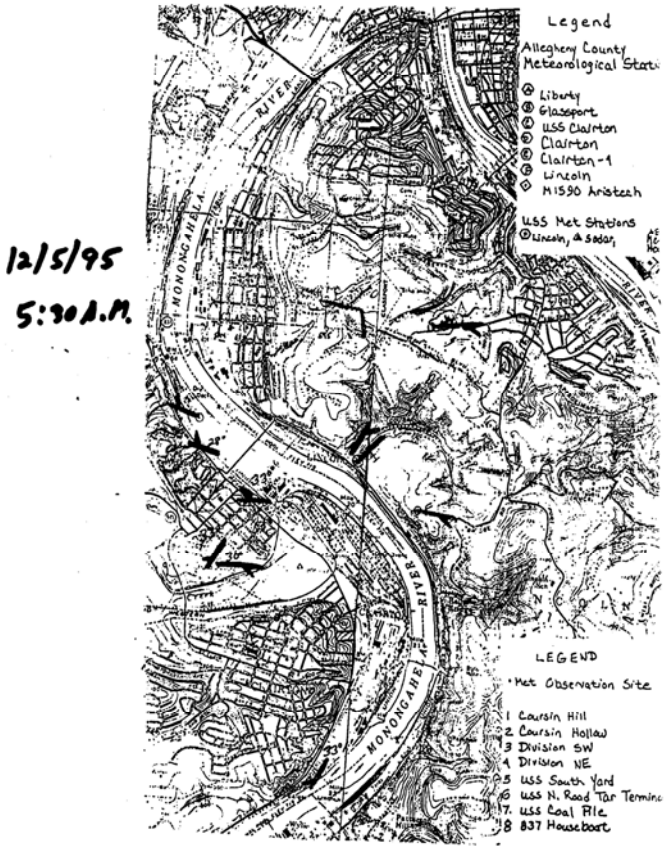


Figure 17: Flow Vectors 12/8/1995 0100

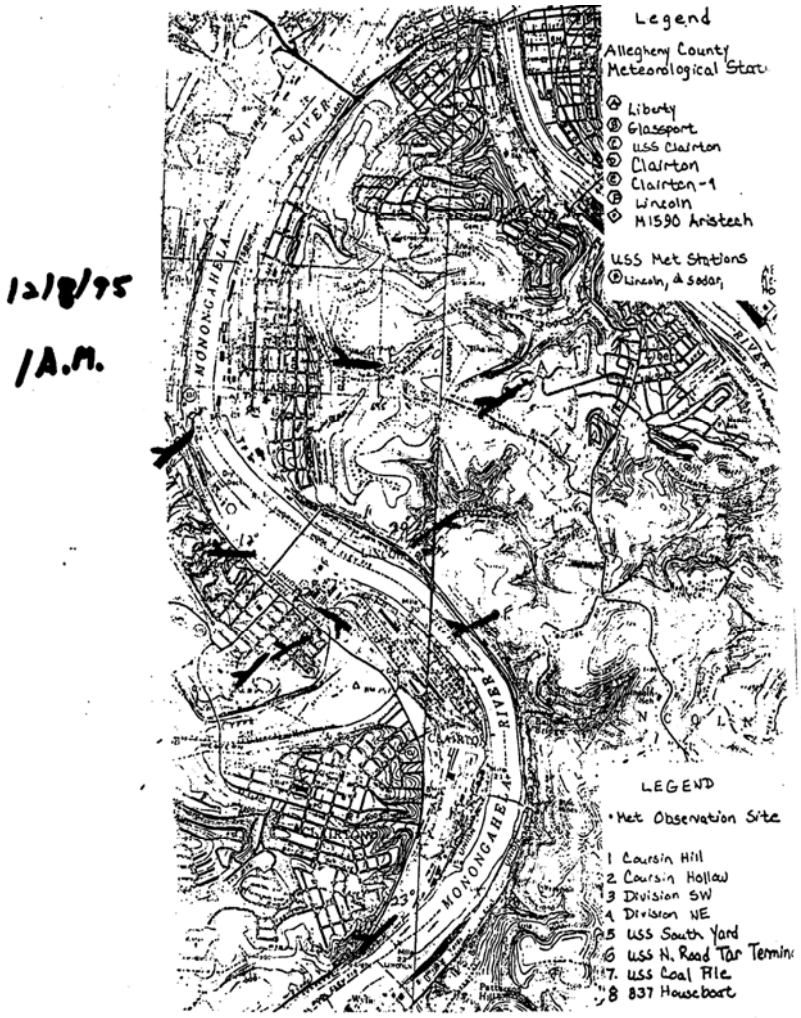
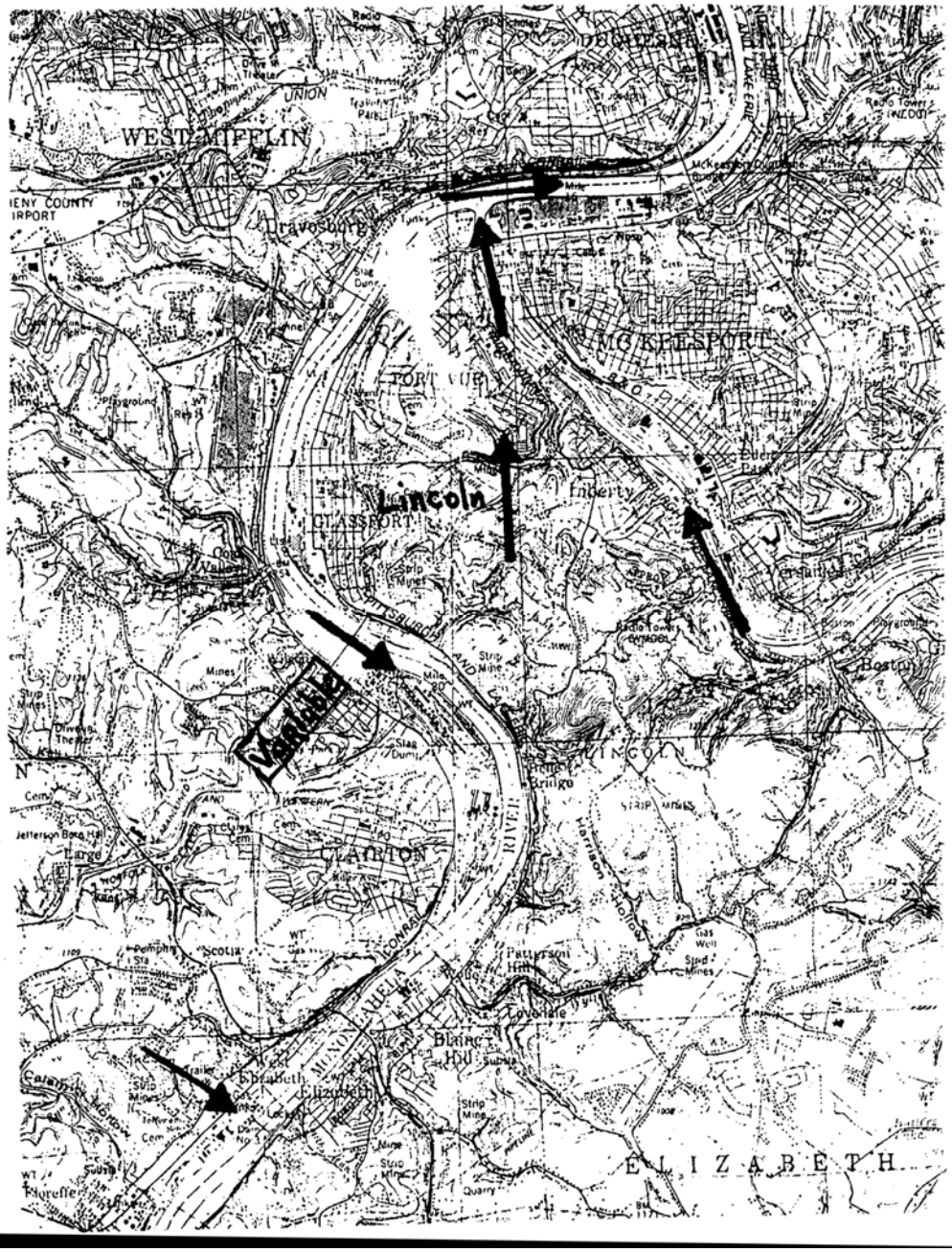


Figure 18: Observed Flow Vectors March 26, 1996



Long-Term Meteorological Monitoring At USX Clairton Works - Meteorological data were collected from 1995 through 2001 just downriver from the northwest extreme of the Clairton Works coal pile. These data were reviewed to display the most common wind directions associated with light flow periods during nighttime periods with non-overcast conditions. Figures 19 through 21 provide frequency plots for such periods with wind speeds less than 6, 3, and 1 mph respectively. As the wind speeds decrease, peak frequencies become more tightly clustered within the range of 240 through 260 degrees. Minimal flow is shown from 315 degrees; however, which would approximately up-river flow towards the heat sources. Figure 22 provides a general perspective on the river valley orientations in the vicinity of the Clairton Works.

Figure 19: Wind Direction Frequencies during Nocturnal Non-Overcast Conditions with Wind Speeds < 6 mph

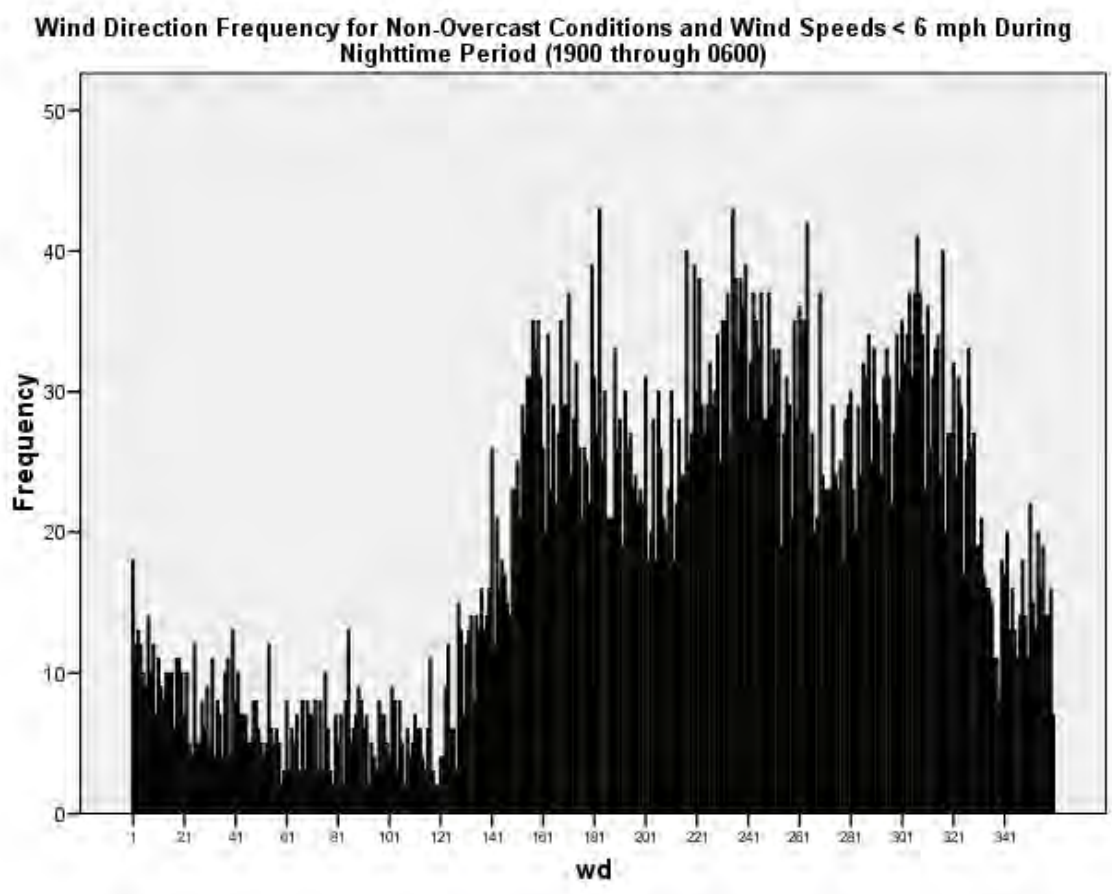


Figure 20: Wind Direction Frequencies during Nocturnal Non-Overcast Conditions with Wind Speeds < 3 mph

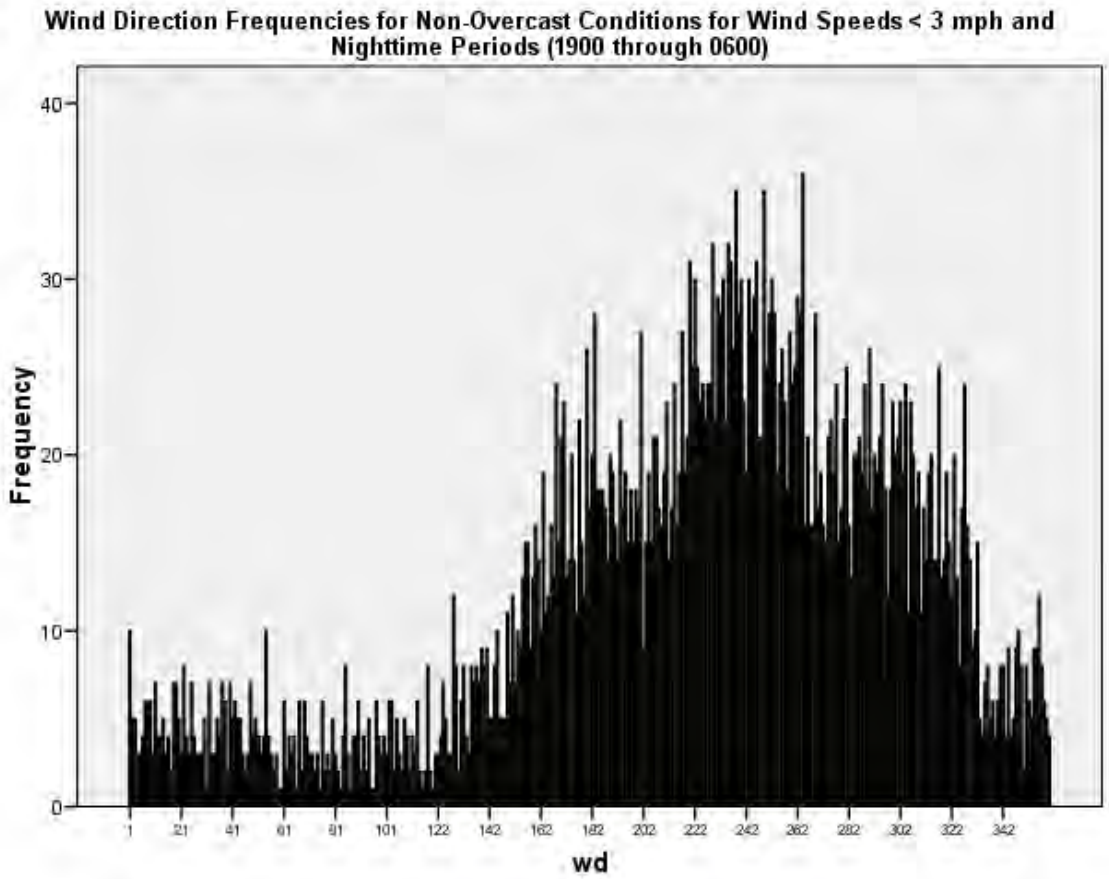


Figure 21: Wind Direction Frequencies during Nocturnal Non-Overcast Conditions with Wind Speeds < 1 mph

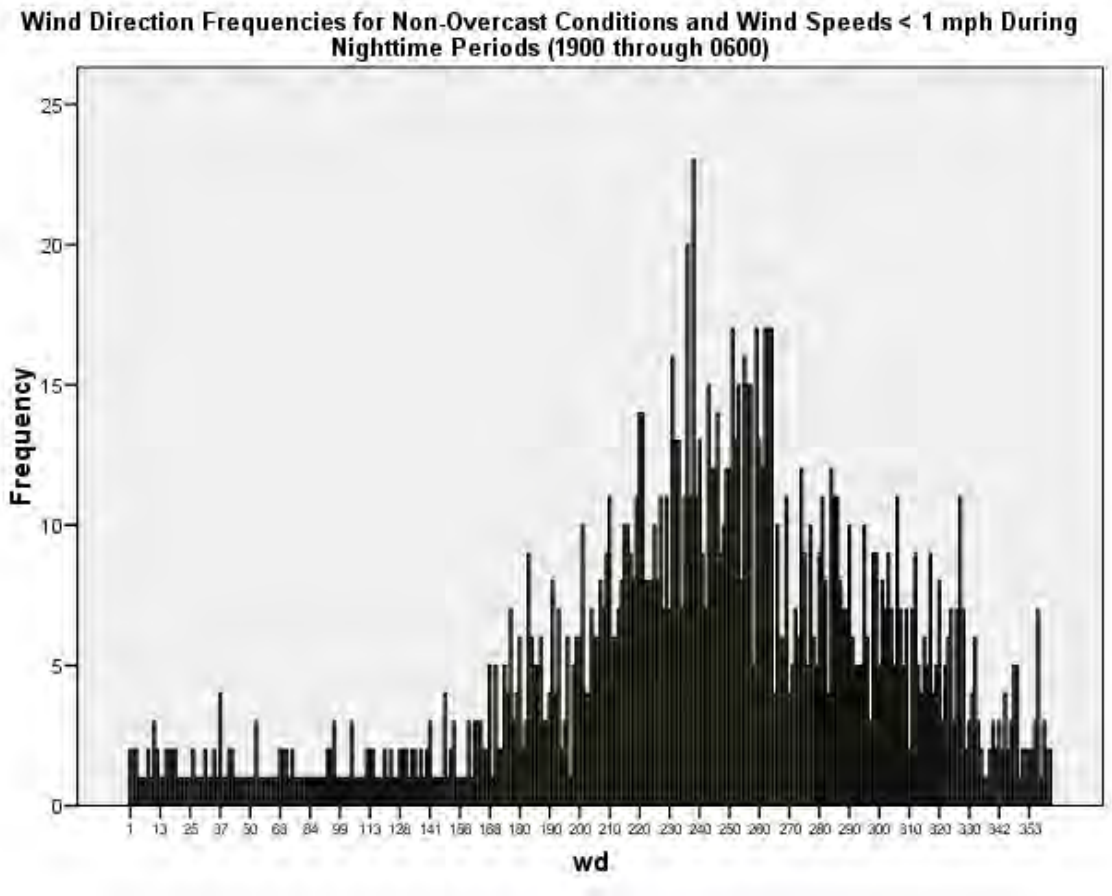
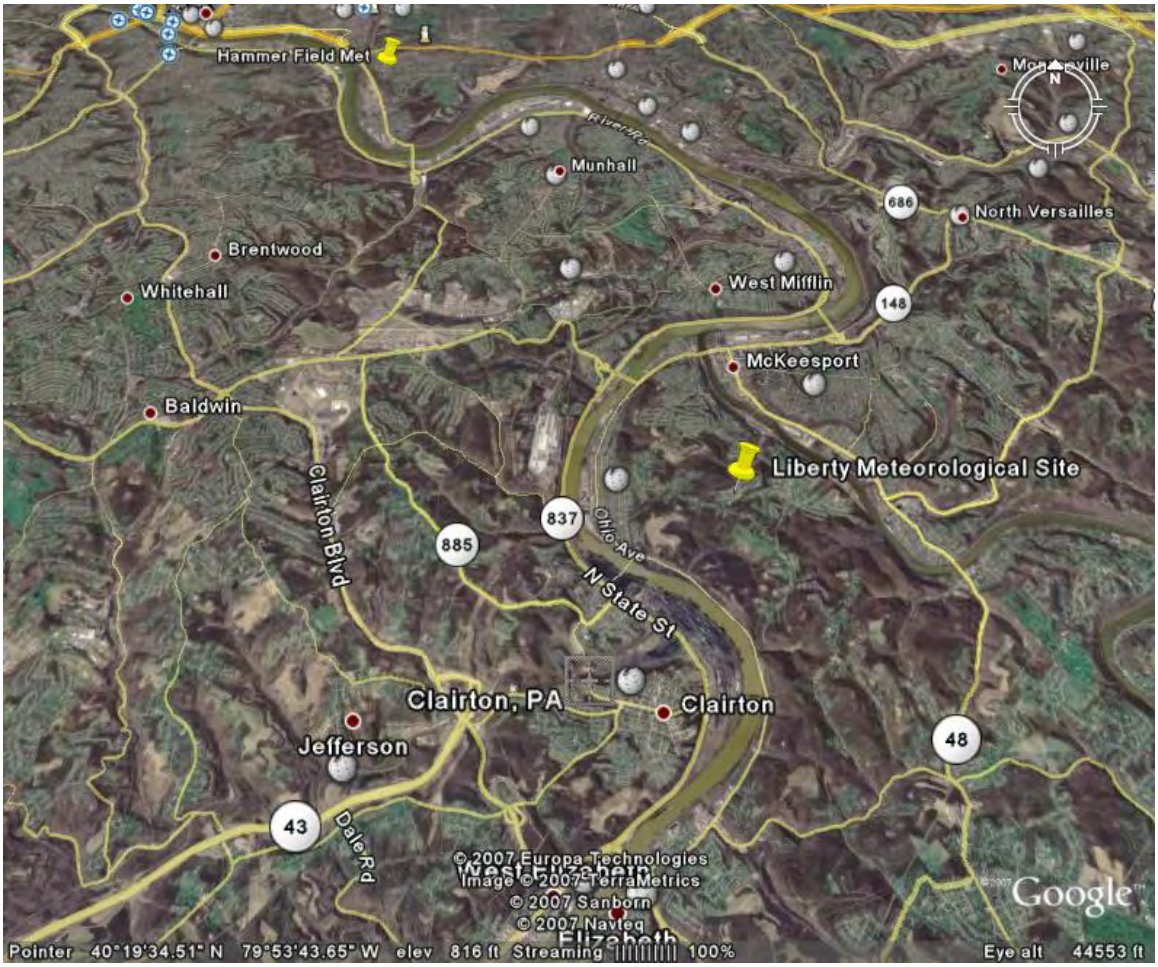


Figure 22: General Domain within Study Area



Although it is likely that at least on an intermittent basis there is up-valley flow towards the rising heat plums near the coke ovens and quench towers, there is insufficient available data to quantitatively incorporate this feature into the CALMET analysis, beyond accounting for heat flux-induced convergence near the Clairton Works. Our recommendation is to evaluate model performance in the CALPUFF modeling to be subsequently done with and without consideration for treating low-level fugitives near the heat sources by testing varying degrees of heat assigned to the buoyant area sources.

The available emissions inventory for the non-attainment area was reviewed to evaluate the magnitude of emissions at the Clairton Works that have a high potential for being transported in the low-level flow. The following emissions spreadsheets were used for this review:

- USS CL 2002 Emis Inven for modeling (emission rates)
- NEI 2002 $PM_{2.5}$ modeling inventory (stack specifications)

As an overall summary, Table 11 shows $PM_{2.5}$ ($PM_{2.5}$ filterable plus condensibles) as a function of major source category within USX Clairton Works:

Table 11: Summary of PM2.5 Emissions by Major Source Category

Source Numbers	Type of Source	$PM_{2.5}$ (Tons/Yr)	Percent of Total Emissions
1-29	Batteries	285.4	67.0
30-34	Quench Towers	58.25	13.7
35-54	Boilers	43.38	10.2
63-77	Trans / Storage	16.33	3.8
78-91	Miscellaneous[4]	22.65	5.3
Total		426.01	100.0

The SODAR data that is available for the non-attainment area shows that from 50 m and higher (the lowest vertical level with quantifiable data) that the general flow during critical nighttime stable periods is consistent with regional flow.

Consideration of heat influences on subsequent CALPUFF modeling will need to address the issue of which sources within USX Clairton Works will enter the regional flow, compared to sources that are more likely to be transported and dispersed in the localized flow. Review of Table 12 can be interpreted as follows:

- Quench towers and battery stacks clearly have sufficient plume rise to enter the regional flow
- Transportation, storage, and the miscellaneous emissions have a high potential to enter localized flow, although the subset in close proximity to the coke batteries could be lofted into the regional flow as well. Fortunately in terms of addressing this uncertainty, the total emissions in this category are only approximately 9 percent of the total emissions.

[4] Note that miscellaneous includes emissions associated with paved and unpaved roads, emissions from heavy-duty vehicles, and other more minor categories.

- Considering the very substantial heat source at the batteries (>5,000 watts/square meter), it is likely that there is sufficient lift at the batteries to allow these emissions to enter the regional flow. As a starting point in the CALPUFF analysis, this would be recommended, pending confirmation during model performance evaluation.

- In order to evaluate the boilers, SCREEN 3 was used to roughly estimate effective plume height during nighttime stable conditions and 1 m / sec wind speeds. Table 11 presents the results of this analysis. As shown, there is sufficient lift for all of the boilers that will advect this material into the regional flow.

Table 12: Summary of Boiler Stack Specifications and Computed Plume Rise

Boiler #	Stack #	PM2.5 (g/sec)	Height (m)	Exhaust Temp(K)	Exit Vel (m/sec)	Dia (m)	Calculated Plume Rise (m)
1	31	23.24	57.93	477.4	30.4	2.74	164
2	32	18.22	57.93	477.4	29.7	2.16	148
13	34		26.52	616.3	15.8	1.98	115
14	35		26.52	616.3	15.8	1.98	115
R-1	36	0.67	50.3	450.2	7.5	2.59	114
R-2		0.43					
T-1	38	0.41	26.52	444.1	9.9	1.46	80
T-2	39	0.41	26.52	444.1	9.9	1.46	80

7.0 Model Options

Major features of the CALMET application and input data preparation are as follows

- The 12-km MM5 winds for January 2002 through December 2002 were used to initialize the three-dimensional wind field predictions.
- CALMET objective procedures were used with local terrain and land use data to adjust the MM5 12-km wind fields to 0.1 km mesh size grid. The pressure-based vertical level MM5 fields will be reduced and layer-averaged resulting in 11 vertical levels from the surface to 3,000 m.
- The "no observations" option (NOOBS=1) in the beta version of CALMET was used to extract hourly precipitation and upper air temperature lapse rates from the MM5 data set.
- The relative humidity data was extracted from the MM5 simulations (rather than using the nearest observation, generally from lowland areas) by setting IRHPROG=1.
- Surface observations from Allegheny County Airport within the study domain were used to provide hourly cloud cover and ceiling height data
- The datum used for MM5 data by CALMET is "NWS-84". The CALMET coordinate system will be output as NAD83 based on datum as NAR-C.

Besides the adjustments to albedo, Bowen ratio, surface roughness, anthropogenic heat flux, and leaf area index parameters, the following seven key CALMET settings were also carefully addressed:

- **BIAS** - affects how the initial Step 1 winds are interpolated to each grid cell in each vertical layer based on upper air and surface observations. The BIAS value ranges from -1 to +1, and a value is input for each vertical layer.
- **IEXTRP** - affects vertical extrapolation of surface winds, and whether layer 1 data from upper air stations are ignored, and is normally is set to -4.
- **TERRAD** - Is used in computing the kinematic effects (IKINE), the slope flow effects (ISLOPE), and the blocking effects (IFRADJ) on the wind field. If TERRAD is too small, then the nearby valley wall will not be seen. If TERRAD is too large, then the hill three valleys away is seen, instead of the one nearby. We recommend using a value of 0.5 km based

on iterative model performance testing with CALMET and expected wind flow patterns both within and outside of the valleys.

- **R1 and R2** - are used in the construction of the Step 2 wind field, where the observed winds are 'blended' in with the Step 1 winds. R1 represents the distance from a surface observation station at which the surface observation and the Step 1 wind field are weighted equally. R2 represents the comparable distance for winds aloft. Typically, R1 and R2 are set to fairly small values, on the order of the grid scale size or less. Both R1 and R2 values of 1.5 km are recommended.

- **RMAX1 and RMAX2** - are also used in the construction of the Step 2 wind field, where the observed winds are 'blended' in with the Step 1 winds. Both RMAX1 and RMAX2 values of 1.5 km is recommended.

Based on the planned project goals, the CALMET default options were used in most cases except for the following example options provided in Table 13.

Table 13: Key CALMET Input Parameter Options

CALMET Variable	Selected value	Rationale
NOOBS	1	Use MM5 upper air data
NPSTA	-1	Use MM5 precipitation data (to consider wet deposition)
IEXTRP	-4	Using MM5 for upper levels, extrapolate observed surface winds aloft to account for valley wind effects based on BIAS.
ZFACE	0.,20.,40.,80.,160.,320.,640., 1000.,1500.,2000.,2500.,3000.	Define 11 cell face heights (m) in vertical grid
BIAS	-1, -1, -1, -1, .5, .8, 1, 1, 1, 1, 1	Heavily weight surface observations below valley wall height of 200m and then increase weighting of upper air observations above valley wall.
RMIN2	-1	Not used since NOOBS=1; IEXTRP=-1
IPROG	14	Use MM5 as a first guess but allow CALMET to adjust for terrain
TERRAD	0.5	Using formula of terrain ridge to ridge distance divided by 2 plus some small factor
R1 & R2	1.5	This adjustment was data dependent and projected wind patterns were compared to observed wind flows (feedback mechanism)
RMAX1 & RMAX2	1.5	This adjustment was dependent on met data sites relative to terrain valley/ridge features
ITPROG	1	Use surface stations and MM5 for upper air
IRHPROG	1	Use MM5 relative humidity
SIGMAP	12	Set radius to the MM5grid spacing

8.0 Inclusion of USX Clairton Meteorological Data

A 10-meter tower meteorological monitoring station has been operating inside the USX Clairton facility grounds since 2002 and is located just to the southwest of the main operations (see Figure 11). This monitoring station is considered important to the modeling analysis as it is the only site that likely represents the low-level wind flows in the Monongahela Valley in and around the key USX Clairton facility. The meteorological monitoring station has been operated and maintained by onsite USX environmental engineering personnel. Calibration data concerning this monitoring instruments and quality assurance of the collected data are not available at the time of this writing but should be incorporated into the total SIP documentation.

Data for the first half of 2002 is missing and the first day of data starts on August 13, 2002. Review of this data found that two separate periods of data was determined to be invalid (data values held constant). These two periods are September 25-29 and December 2-12.

A wind rose plot of the August 13 - December 31 period (taking out the invalid data) is provided in Figure 23. As can be noted, the predominant flow at this site is from the WSW with equal percentage from the south and NW components. It is also obvious from this wind rose that there are no reported occurrences of wind direction from NE quadrant. It is conjectured, although not independently confirmed, that the Lincoln hill located on the NE bank of the Monongahela River just to the NE of the USX Clairton Facility is blocking the NE regional flow as represented by the Liberty site wind rose in Figure 24. A full year of hourly data for the USX site for 2003 was also reviewed and it also showed this same pattern of predominant WSW winds with no reported winds from the NE quadrant.

In relation to this comparison of USX Clairton to the Liberty monitoring site, a scatter plot of the corresponding hourly wind directions for these two sites was examined. This scatter plot is presented in Figure 25. As can be noted, there is good correlation between the two sites for the regional (represented by Liberty) SW and NW wind quadrants. There appears to be a divergence for the regional NE and SE wind quadrants and the observations at the USX Clairton site. Again there are no reported NE winds at the USX Clairton site. When there is a regional NE or SE quadrant flow pattern, the winds at USX Clairton separate into either SE or a SW direction. Based on discussions with our modeling group and further data review, this SE or SW wind divergence appears to be dependent on the regional wind speed reported at Liberty. In other words, the winds at USX Clairton tended to be more SE under stronger NE to SE regional flow, while the lighter regional NE to SE winds tended to result in more frequent SW winds at USX Clairton. This is consistent with the hypothesis that the predominant SW wind direction at the USX Clairton site is enhanced by nocturnal drainage flow coming down a broader valley opening located the SW of the site as well as thermal convergence towards the heated facility under light regional winds.

Figure 23: Wind Rose Plot for USX Clairton Meteorological Monitoring Site for August 13 – December 31, 2002

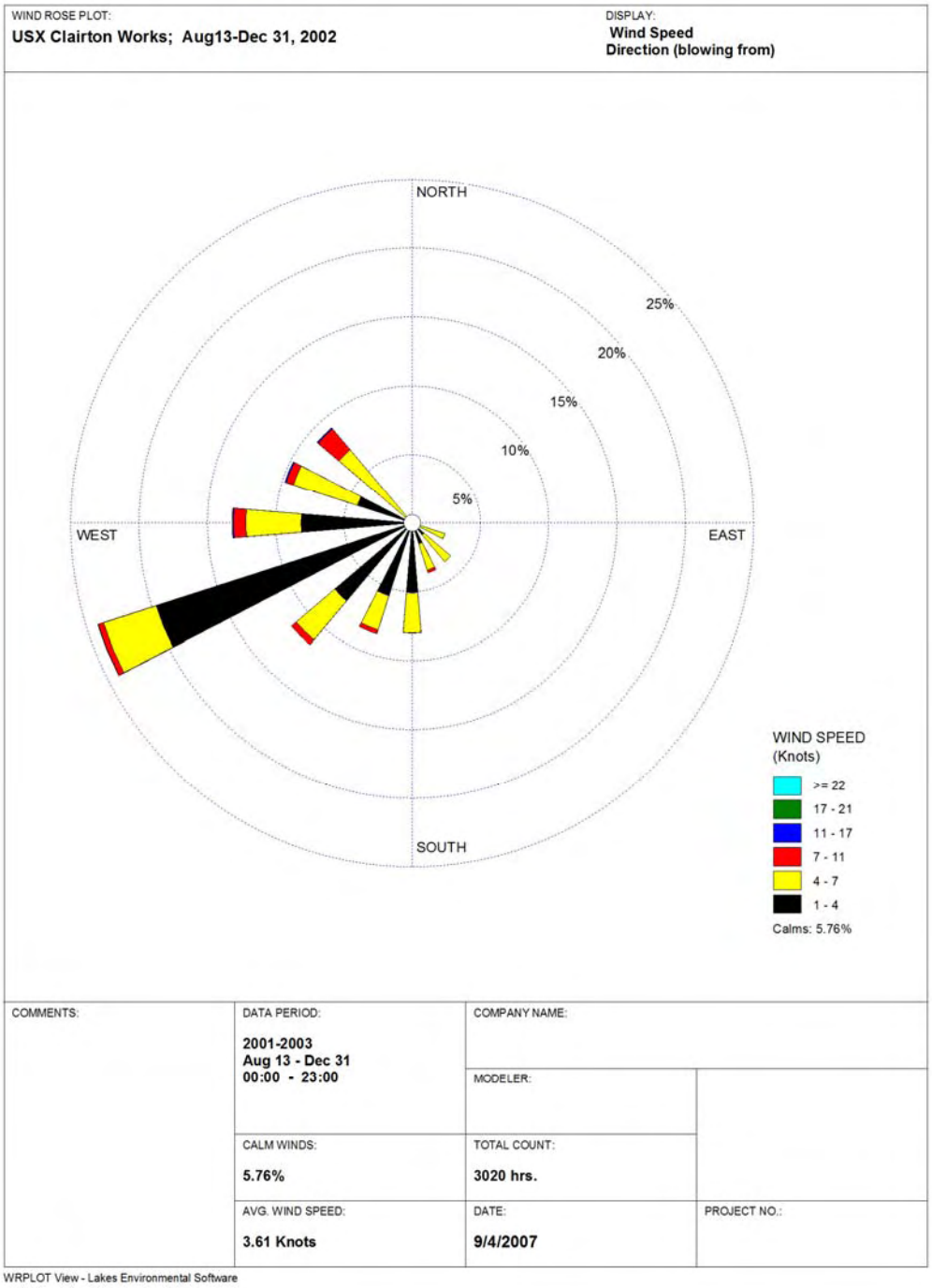


Figure 24: Wind Rose Plot for Liberty Meteorological Monitoring Site for August 13 – December 31, 2002

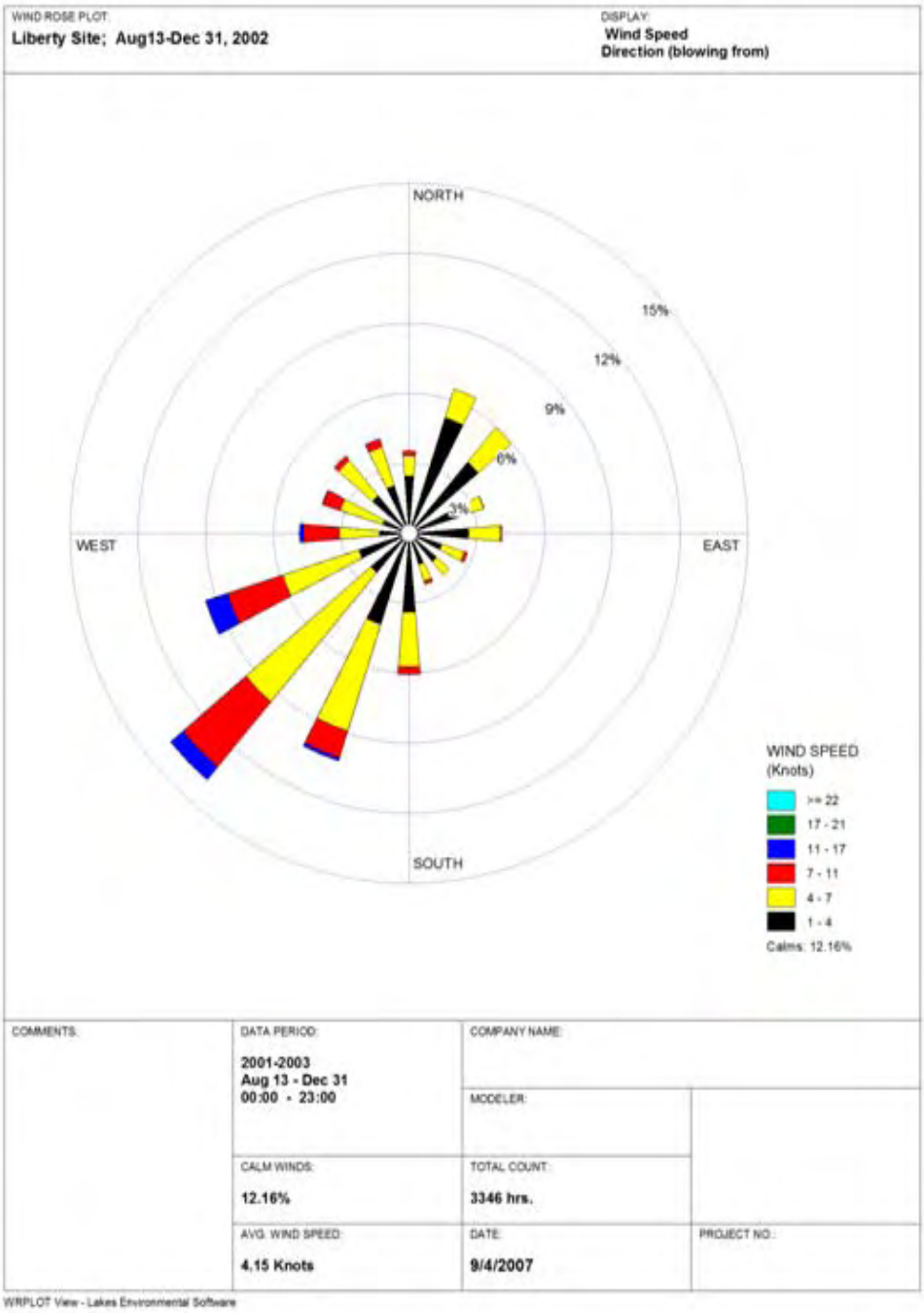
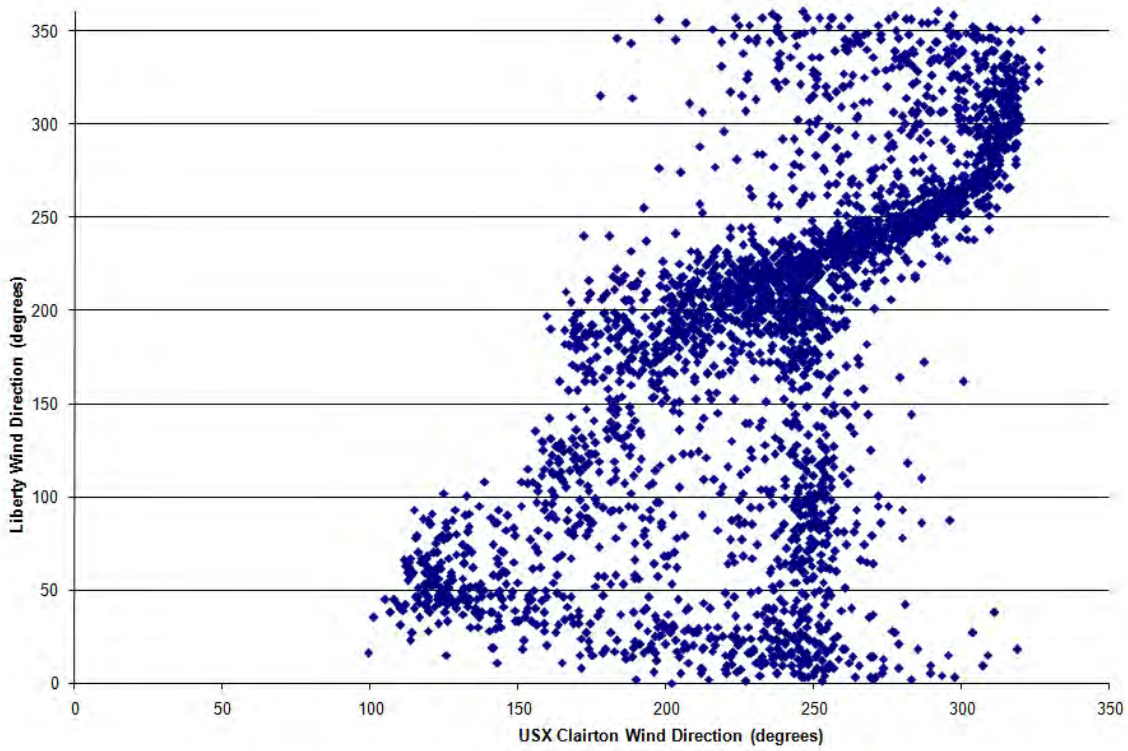


Figure 25: Wind Direction Scatter Plot for USX Clairton and Liberty Sites for 2002



In order to more fully document the USX Clairton site meteorological data, 10-meter level wind vector plots from the CALMET preprocessor and analyzed with CALVIEW were produced for two separate time periods within the 2002 calendar year. One set was for data in early July (where there is no data from the USX site) and the other set in late November (where USX data is included). Example plots for these two periods are presented in Figures 26 and 27. The plot for July 11, 2002 in Figure 26 shows a moderate NE regional flow that appears to be carried right into the Monongahela River valley without the influence of the USX site data. However, the plot for November 12, 2002 (see Figure 27) shows the influence of including the USX Clairton site as the wind flow within the valley is from the SW while there is a predominant NE regional wind flow.

The preliminary data comparisons, representative wind vector plots, and some CALPUFF model results were presented to the Region III meteorologist (Denny Lohman) regarding the importance of the inclusion of this data set. After discussions with Region III, agreement was reached that a regression analysis would be conducted for the full-year 2003 data set for both the USX Clairton and Liberty sites to derive methodologies in order to fill-in the missing 2002 data records for USX Clairton.

The regression analysis of the 2002 data was performed using an EXCEL spreadsheet with various regression options available to properly correlate the two data sets. This regression analysis spreadsheet is included as Appendix D. The regional wind speeds at Liberty was used as a guiding factor for the regression curves of wind direction based on the earlier findings of our PM2.5 modeling workgroup. The regional wind speed regression plots were in 1 mph increments from 1 mph to 15 mph. Fifth-order polynomial equations were found to reasonably represent the wind direction variation for each of these plots when wind speed was 4 mph or larger. Some example plots of these regression curves are provided in Figures 28 and 29. The predicted USX Clairton wind directions are dependent on the observed wind direction at Liberty based on this variance of Liberty wind speed. Because wind speed at USX Clairton is believed to be highly dependent on the wind directions within the Monongahela Valley, the regression curves used the predicted USX wind direction as the dependent variable. As can be noted by both wind speed regression analyses, wind speeds are shown to be lower for the SW (cross valley direction) as opposed to the NW or SE (along valley directions). Similar regression curves for temperature were also created based on hourly Liberty and USX Clairton temperatures, but were factored based on the hour of the day. Example temperature regression plots for various hours of the day are presented in Figures 30 and 31.

From the regression analysis it was noted that the r-squared values for the predicted USX Clairton wind directions was well below 0.5 for Liberty wind speeds less than 4 mph. It was determined that for those lower wind speeds, the regression curves would not be applicable. Therefore we applied the simple methodology of taking the average of the predicted wind directions and then using the standard deviation (Monte Carlo) to develop a range of hourly wind directions around that average. For wind speeds of 4 mph or greater the regression equations were directly applied with no Monte Carlo variance.

Figure 26: Low-level 10-meter AGL Wind Vector Plot for July 11, 2002 0500 LST

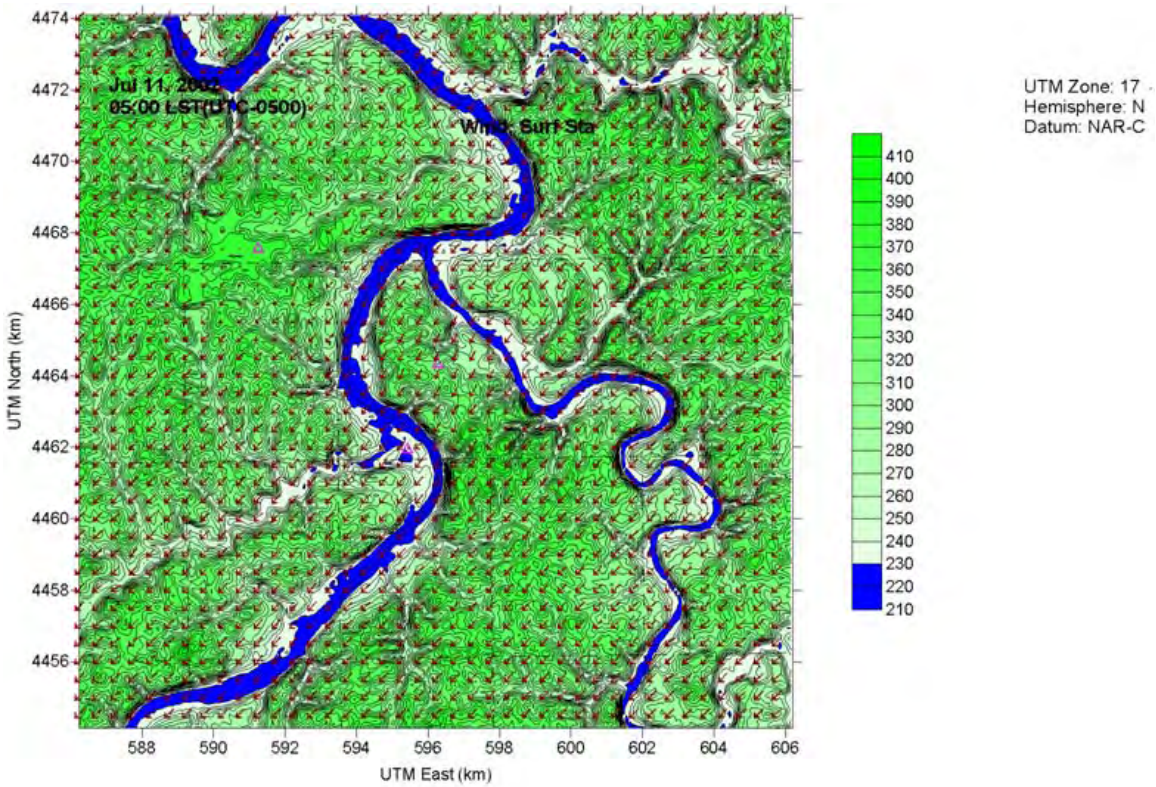


Figure 27: Low-level 10-m Wind Vector Plot for November 12, 2002 0600 LST

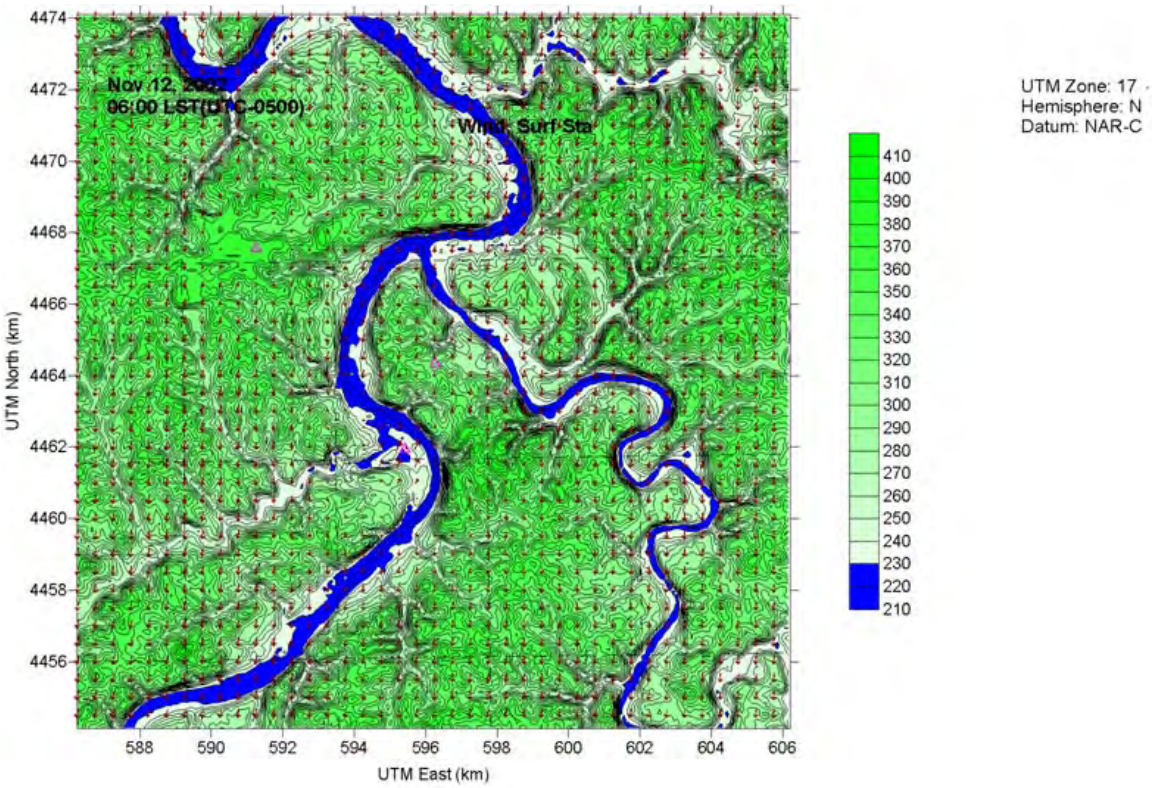
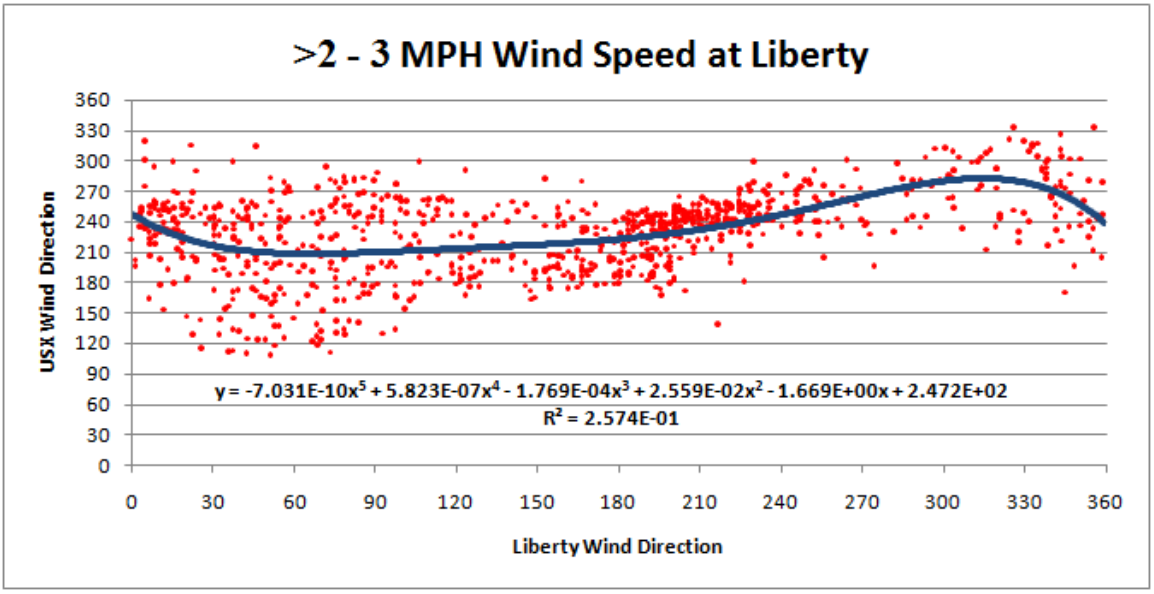


Figure 28: Regression Plot for Wind Direction and Wind Speed Based on Low Wind Speeds (>2 - 3 mph) at Liberty



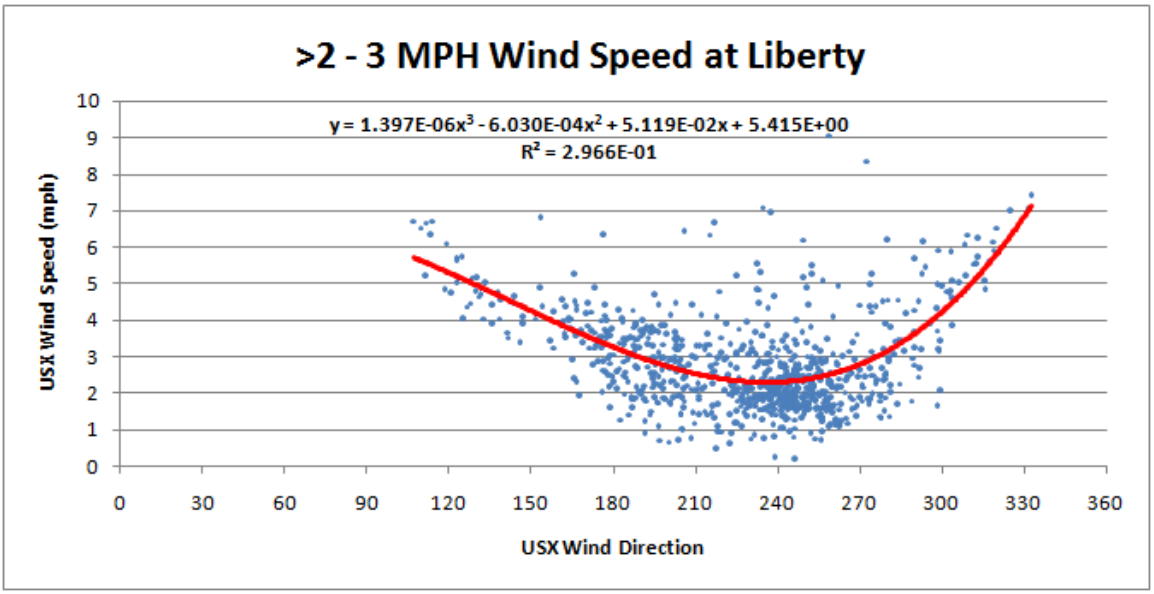
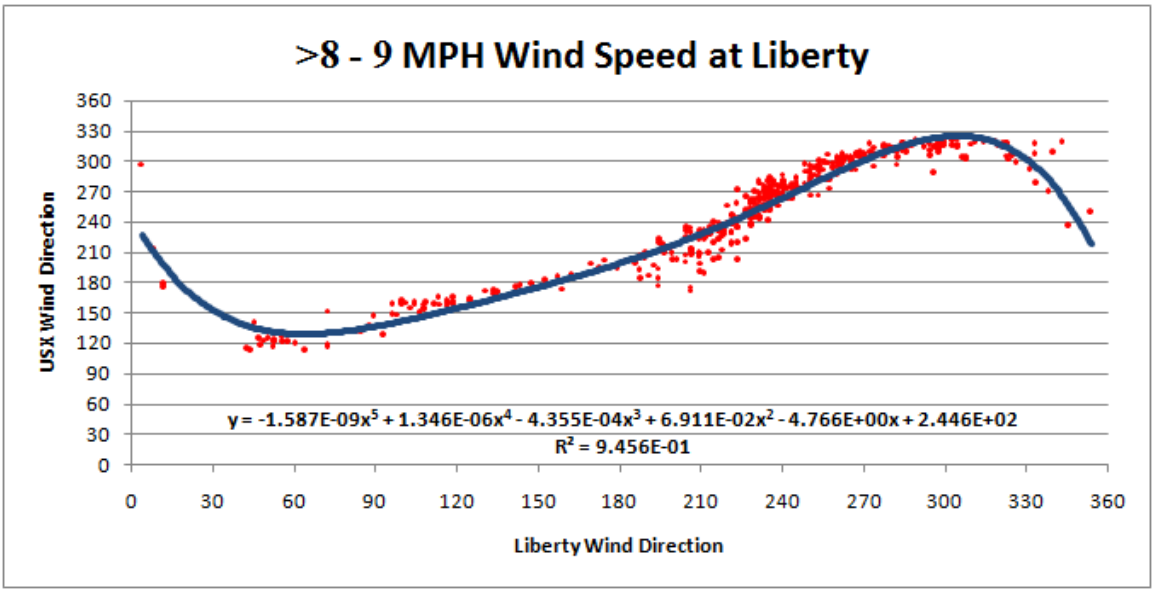


Figure 29: Regression Plot for Wind Direction and Wind Speed Based on Moderate Wind Speeds (>8 - 9 mph) at Liberty



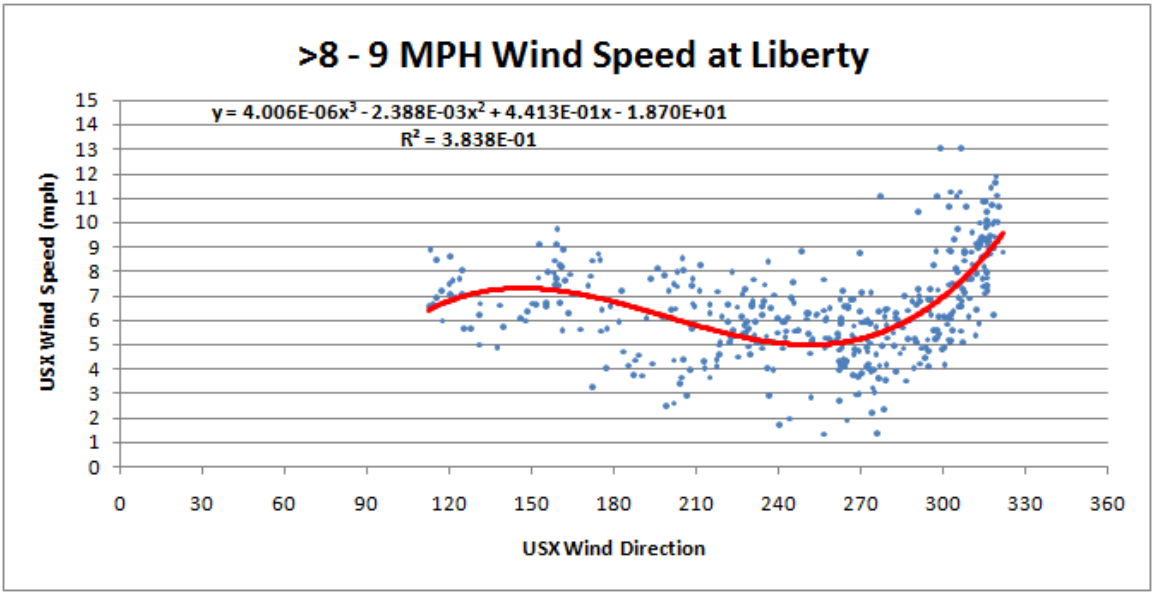


Figure 30: Regression Plots for Temperature for Hours 06 and 12

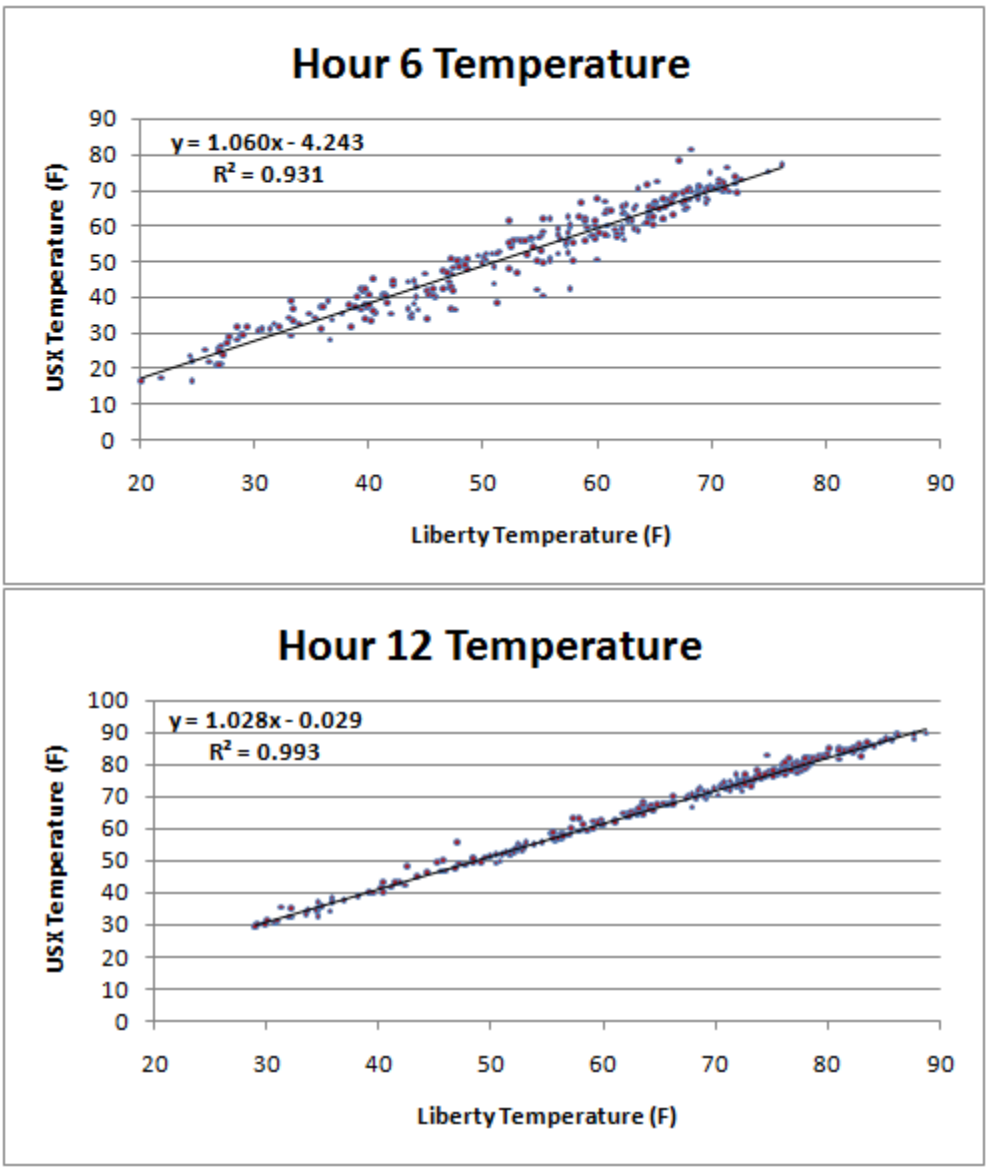
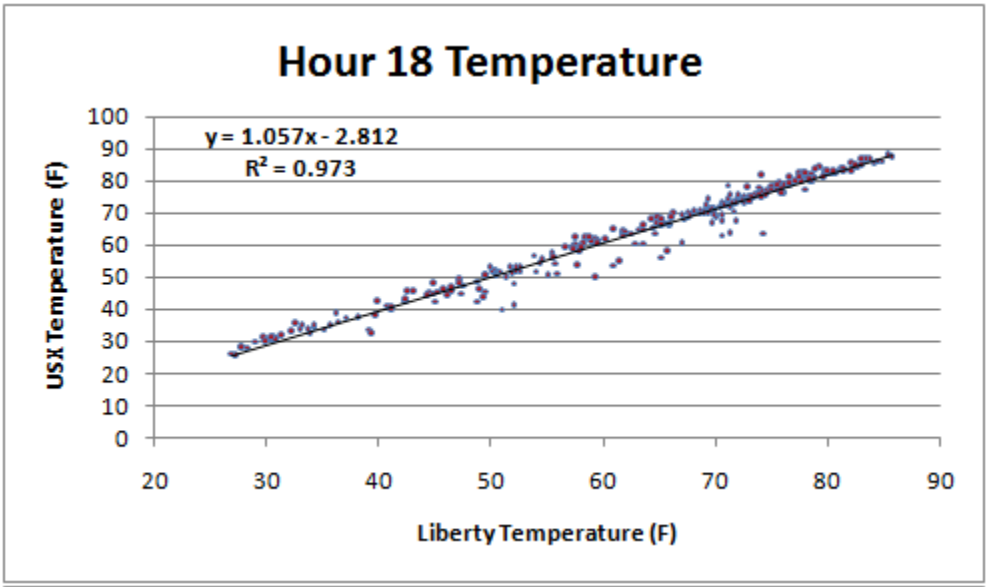
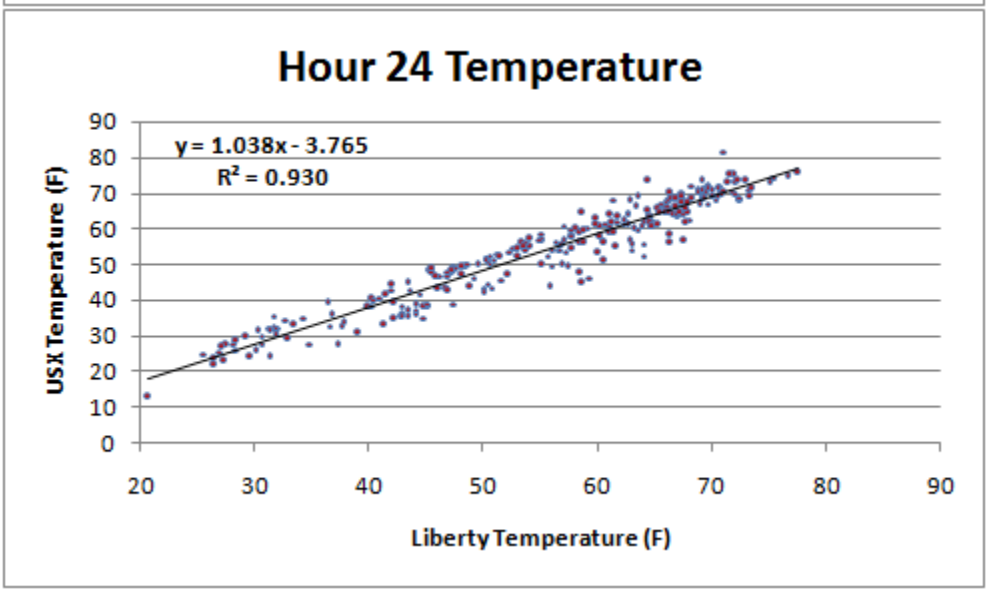


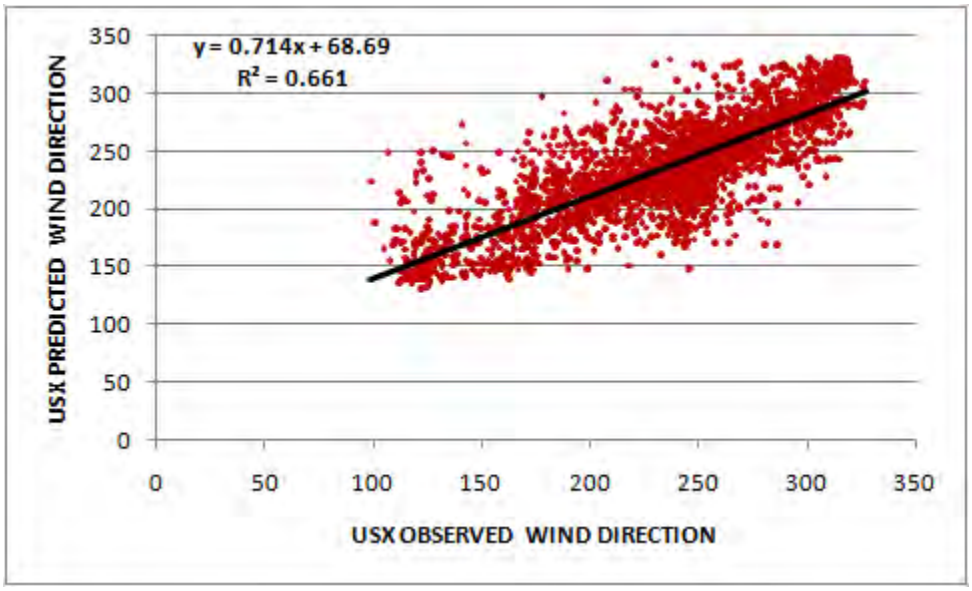
Figure 31: Regression Plots for Temperature for Hours 18 and 24

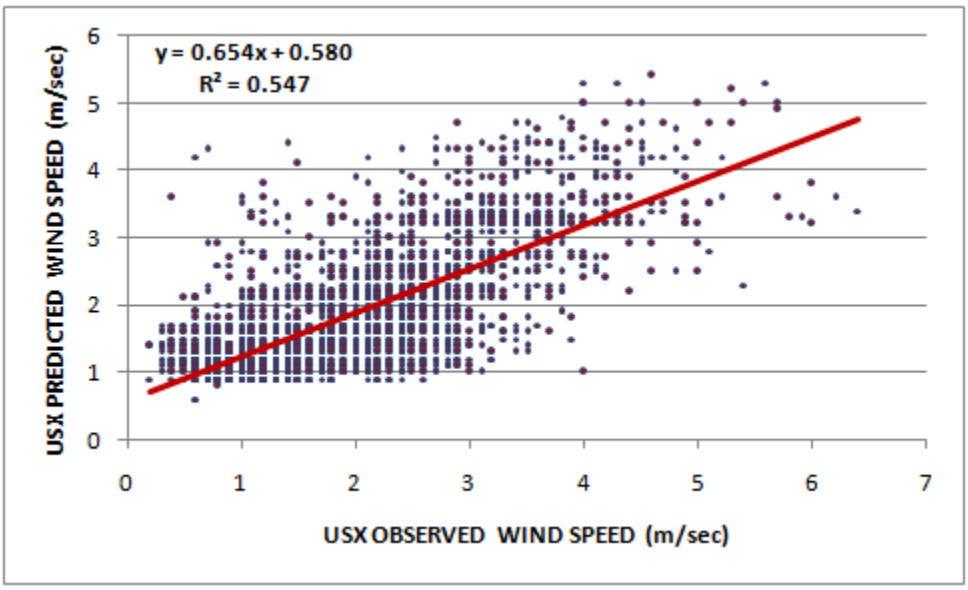




The regression curves (and Monte Carlo variance for the lower (<4 mph) wind speeds) for both wind direction and wind speed based on the Liberty wind speed were then incorporated into a FORTRAN program. The FORTRAN program integrated the 2002 hourly Liberty wind and temperature data to fill-in the missing hourly wind and temperature data of the original 2002 hourly USX SAMSON format data file used in the CALMET preprocessor. Comparison of the August 13- December 31, 2002 predicted versus observed wind direction and wind speed data is provided in Figure 32.

Figure 32: Regression Plots of the Observed versus Predicted Wind Directions and Wind Speeds for USX Clairton for 2002





9.0 Results

This results section presents example processed predicted 10-meter AGL wind vector plots, based on the final version of the CALMET input files (see Appendix C), for two separate scenarios: 1) total particulate concentration days in each of the four seasons, and 2) nighttime regional NE wind flows also for each of the four seasons. The full 1-year set of the predicted wind vector flow fields within the 20-km model domain are provided in Appendix A.

For this first scenario, the 10-meter AGL Wind vector plots were chosen for four separate days, one for each season, in which the maximum observed total particulate concentration at the Liberty site. Figure 33 provides the plot of the measured daily concentrations. Based on that plot, the following days were chosen: 1) January 28, 2) April 17, 3) June 25, and 4) September 10. These conditions represent the predominant SW regional flow in which the emissions from the major source at USX Clairton are blown NE towards the Liberty site.

The 10-meter AGL Wind vectors, plotted every 200m, are represented by arrows that point to the direction of the wind flow movement with the width and length of the arrow indicating the relative wind speed. There are three wind vector plots for each day based on the observation times of 0600, 1200, and 1800 local standard time (LST). Figures 34-36 are for the January 28, 2002 conditions, Figures 37-39 are for the April 17, 2002 conditions, Figures 40-42 are for the June 25, 2002 conditions, and Figures 43-45 are for the September 10, 2002 conditions.

In each case, you can note the consistent pattern of the SW flow across the full domain, even in the river valley regions. In cases of the lightest SW wind in the early morning or evening hours, some bending of the wind vectors can be noted can be noted within the river valleys.

Figure 33: Daily Measured Total Particulate Concentrations (µg/m³) at Liberty for 2002

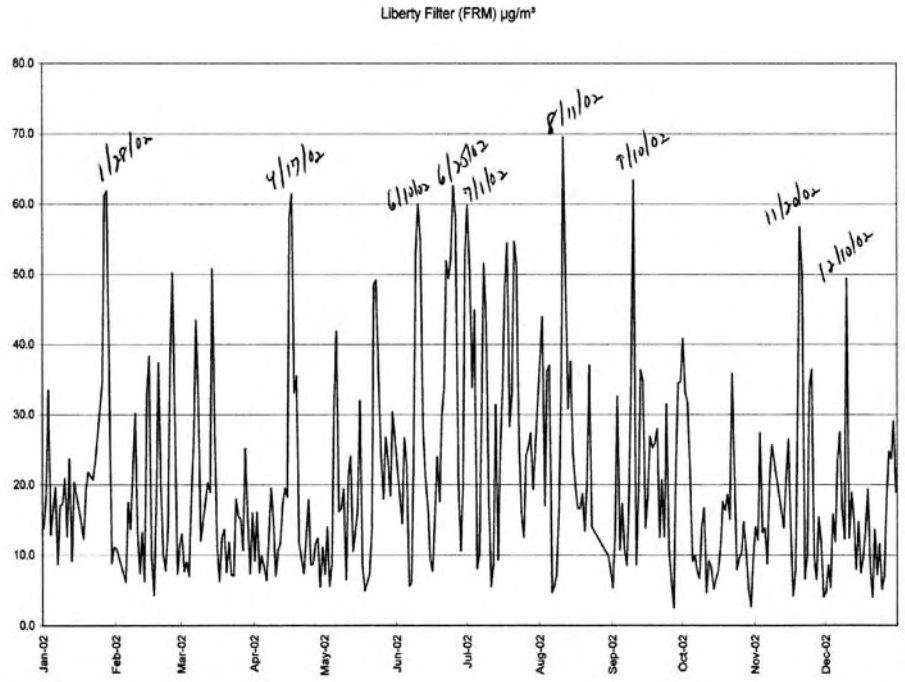


Figure 34: 10-meter AGL Wind Vector Plot for 0600LST January 28, 2002

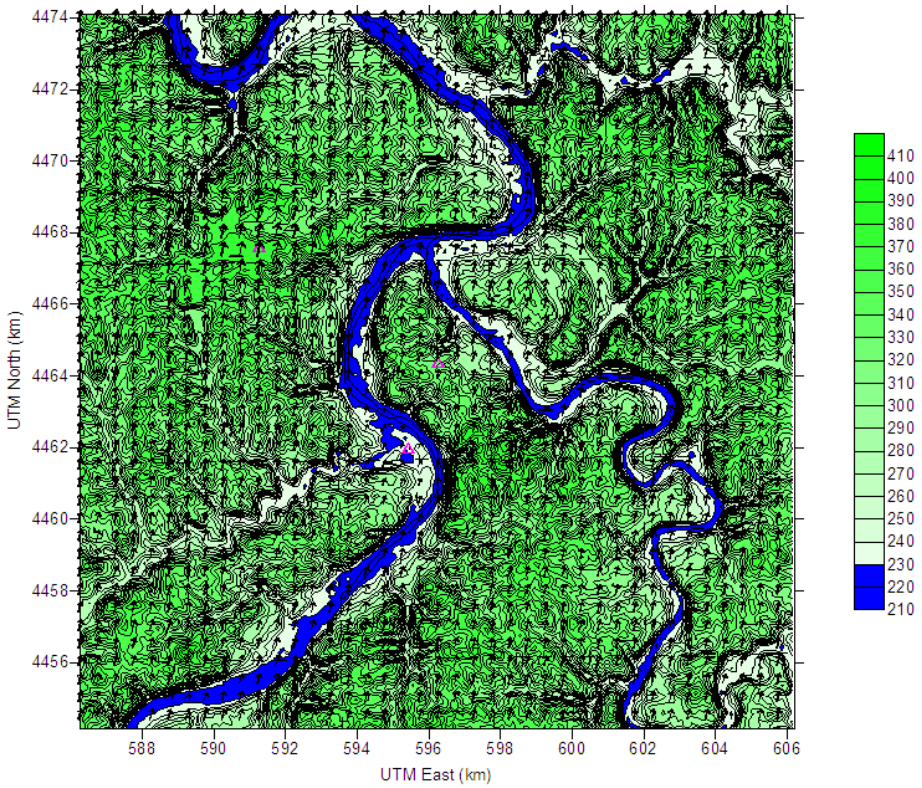


Figure 35: 10-meter AGL Wind Vector Plot for 1200LST January 28, 2002

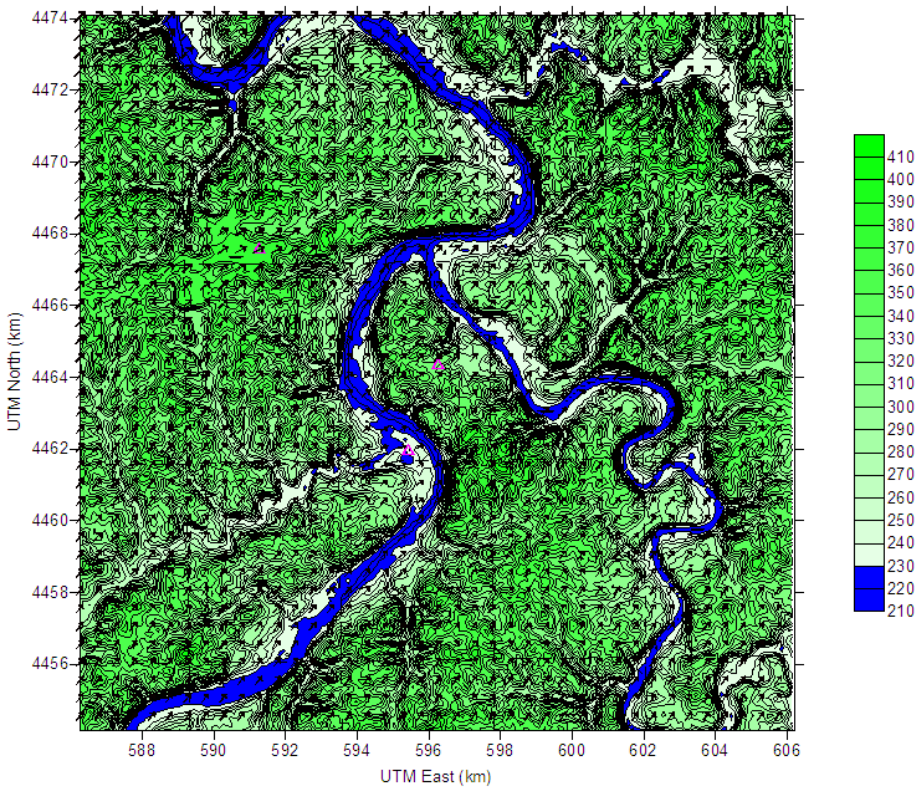


Figure 36: 10-meter AGL Wind Vector Plot for 1800LST January 28, 2002

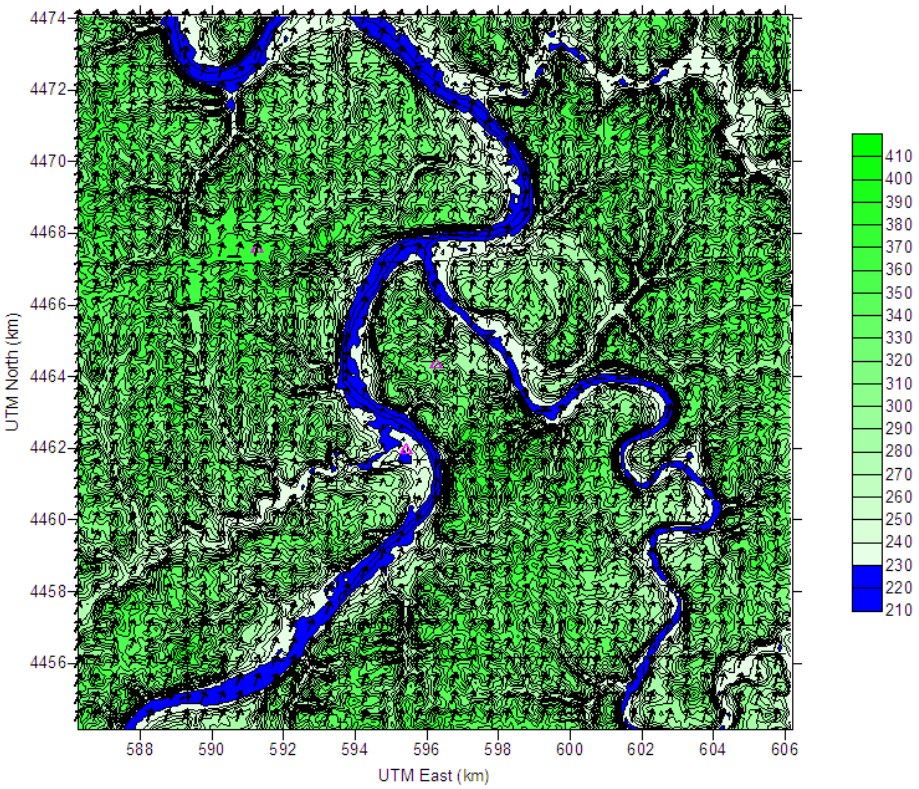


Figure 37: 10-meter AGL Wind Vector Plot for 0600LST April 17, 2002

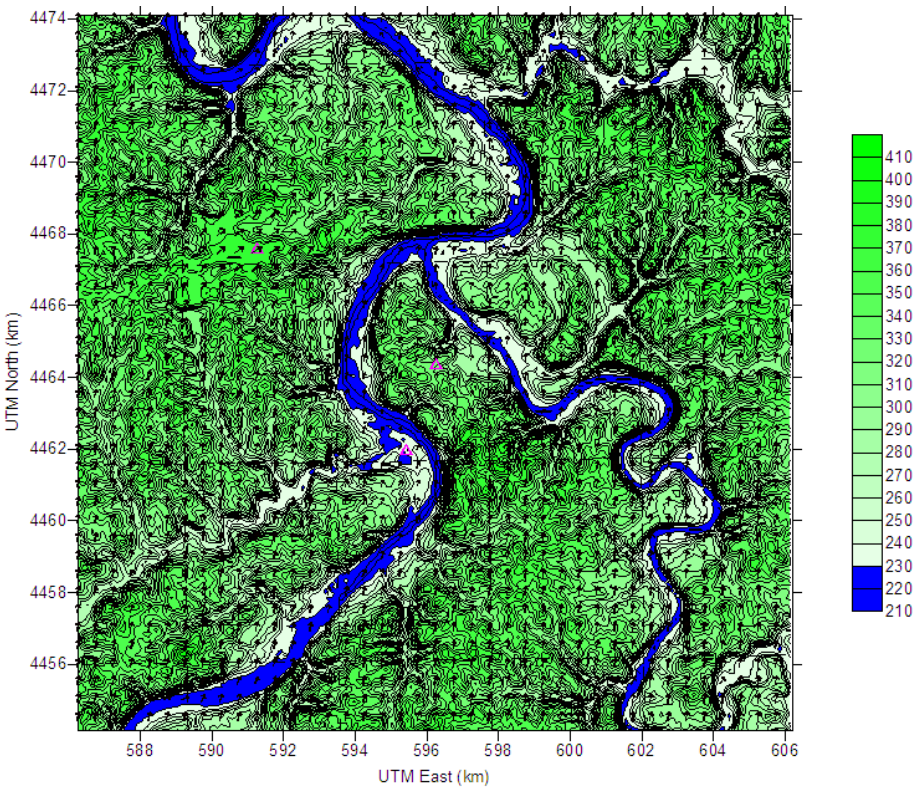


Figure 38: 10-meter AGL Wind Vector Plot for 1200LST April 17, 2002

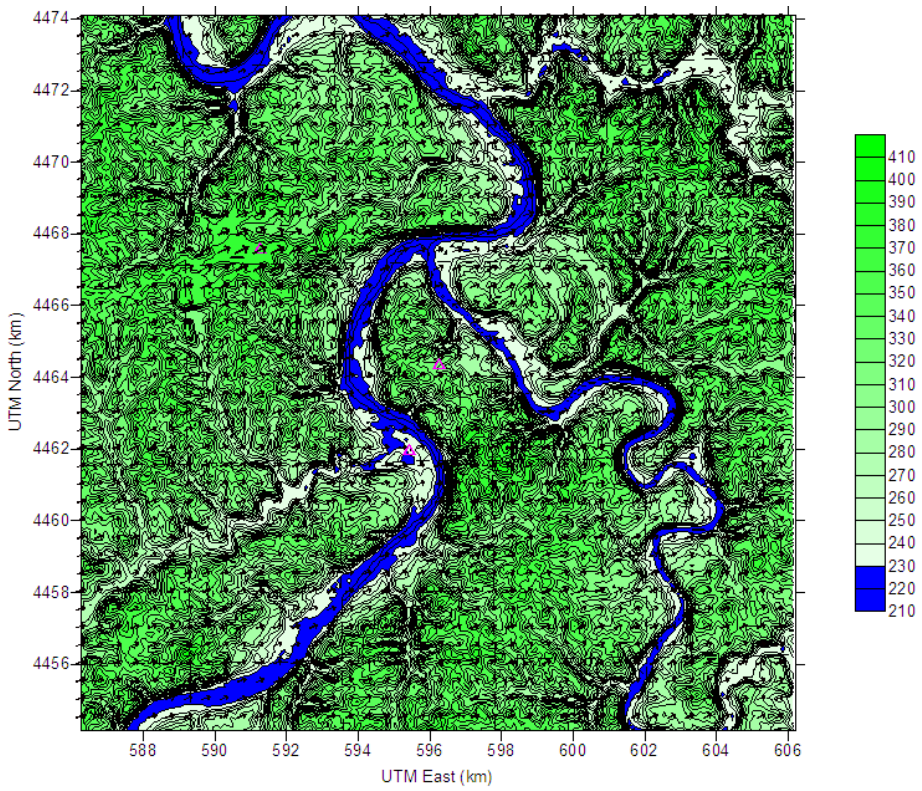


Figure 39: 10-meter AGL Wind Vector Plot for 1800LST April 17, 2002

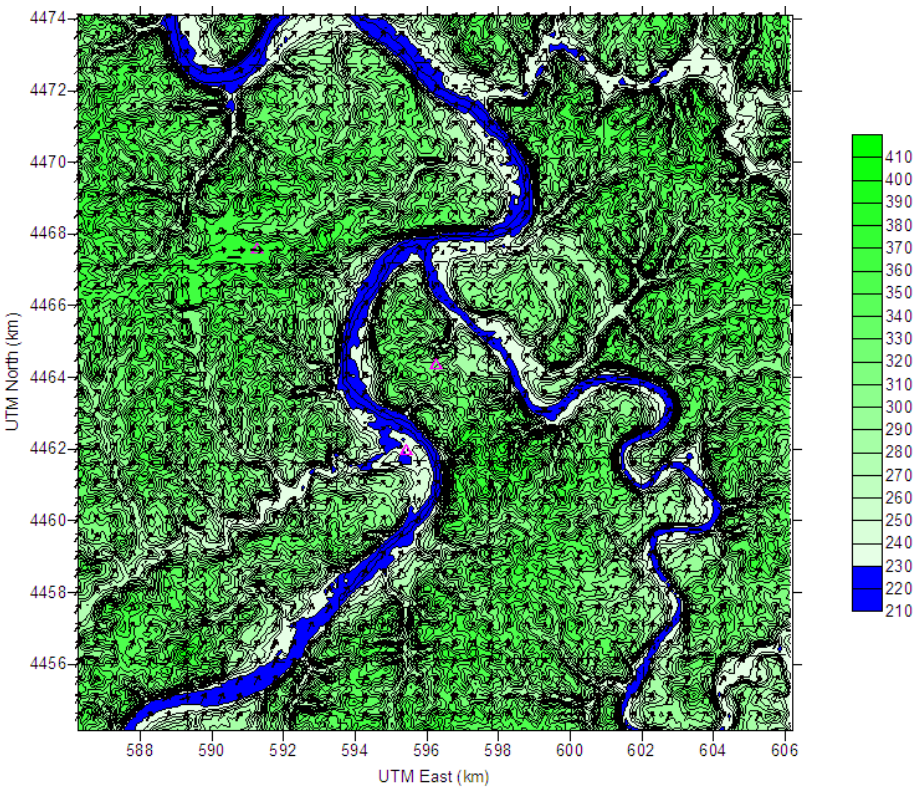


Figure 40: 10-meter AGL Wind Vector Plot for 0600LST June 25, 2002

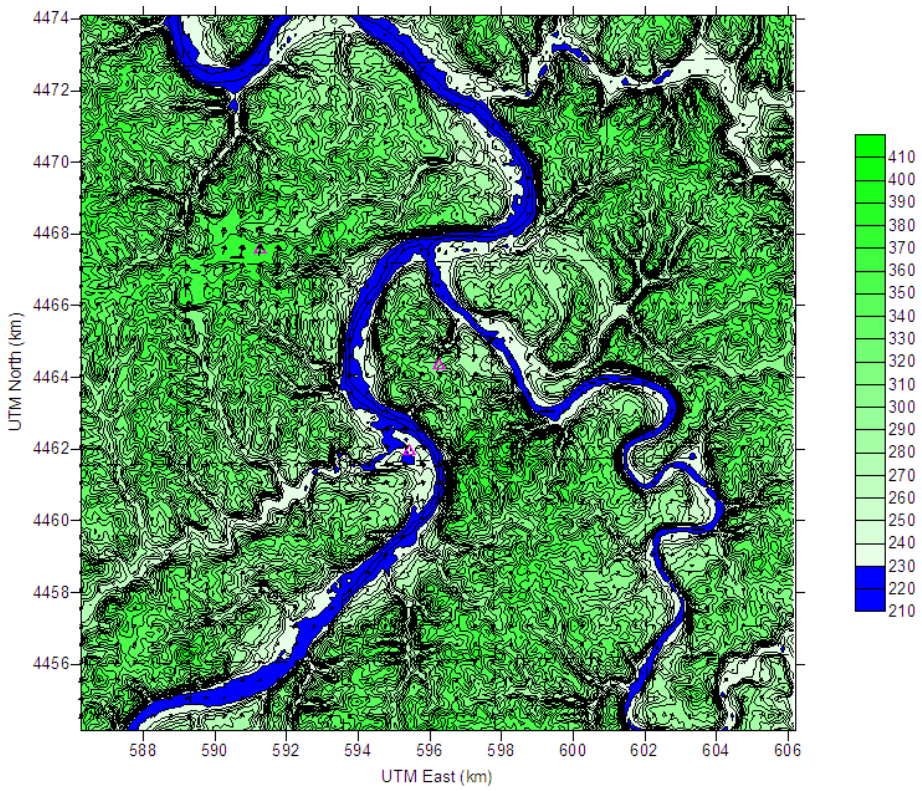


Figure 41: 10-meter AGL Wind Vector Plot for 1200LST June 25, 2002

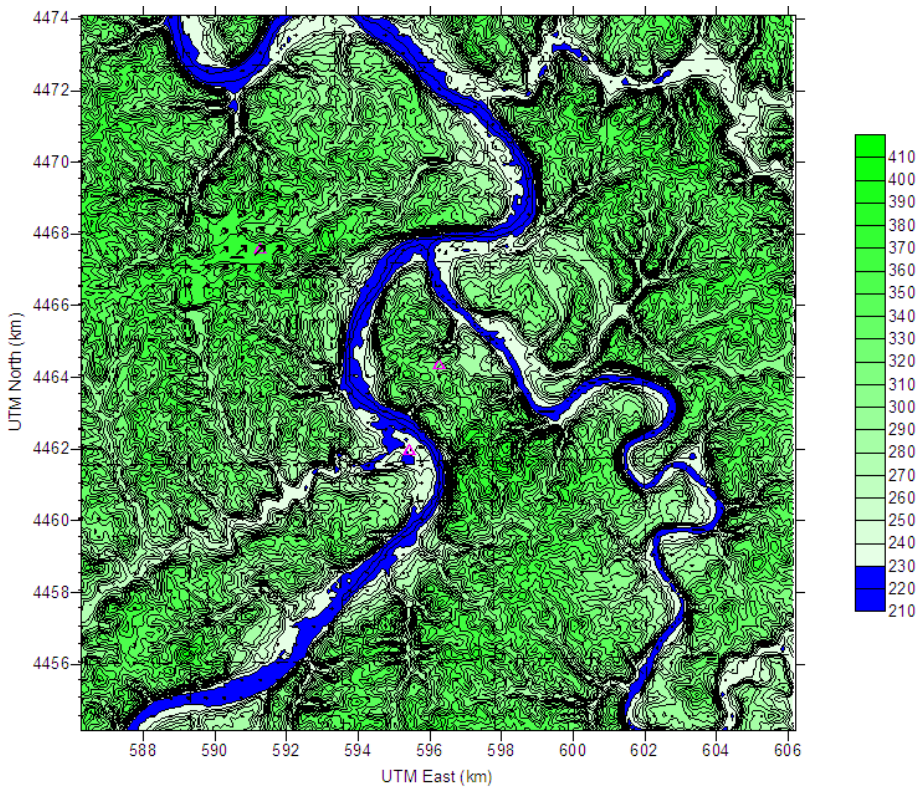


Figure 42: 10-meter AGL Wind Vector Plot for 1800LST June 25, 2002

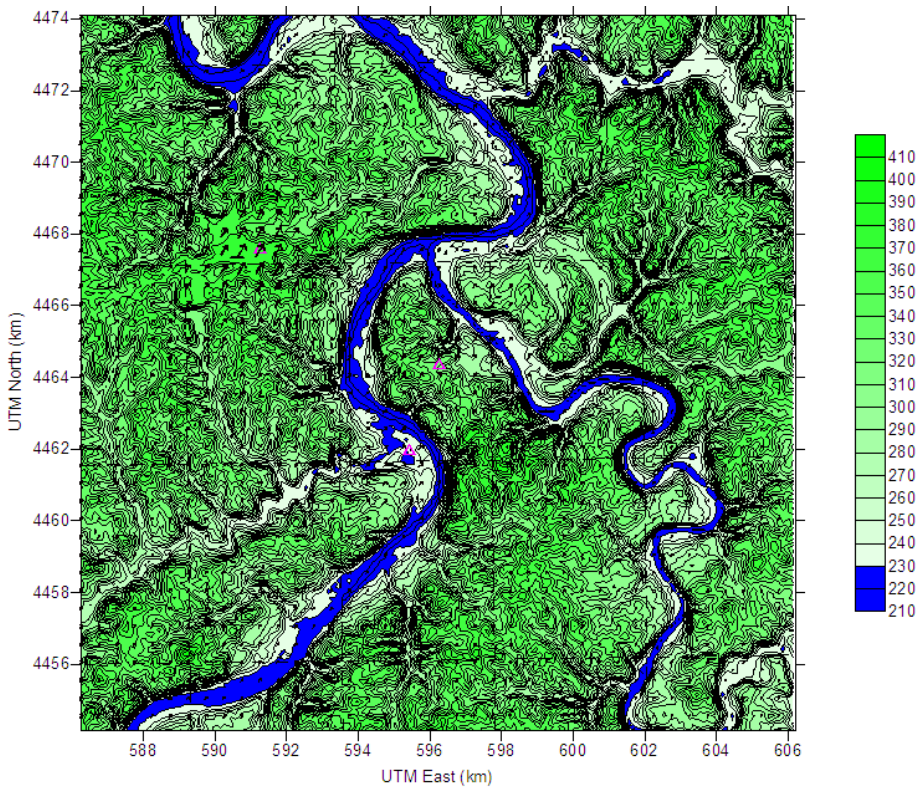


Figure 43: 10-meter AGL Wind Vector Plot for 0600LST September 10, 2002

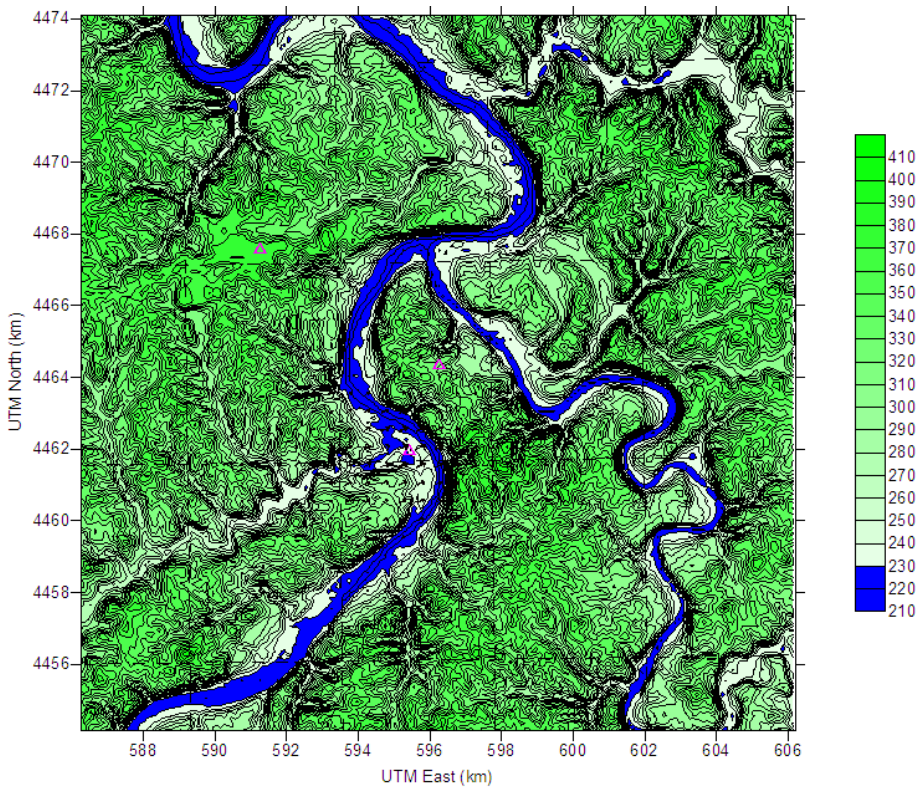


Figure 44: 10-meter AGL Wind Vector Plot for 1200LST September 10, 2002

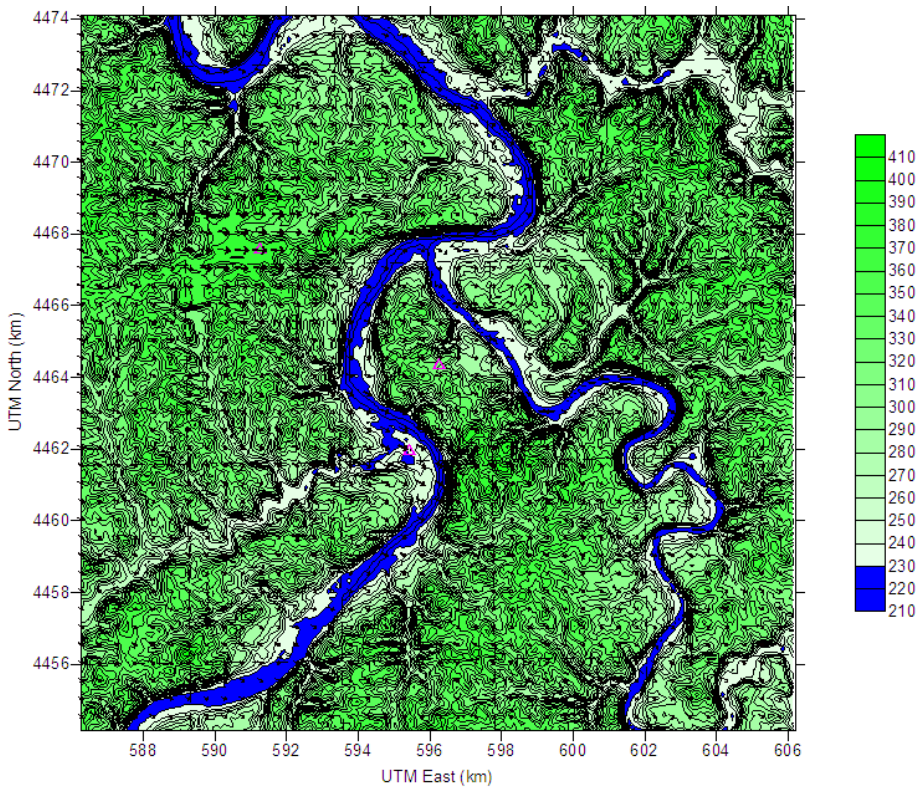
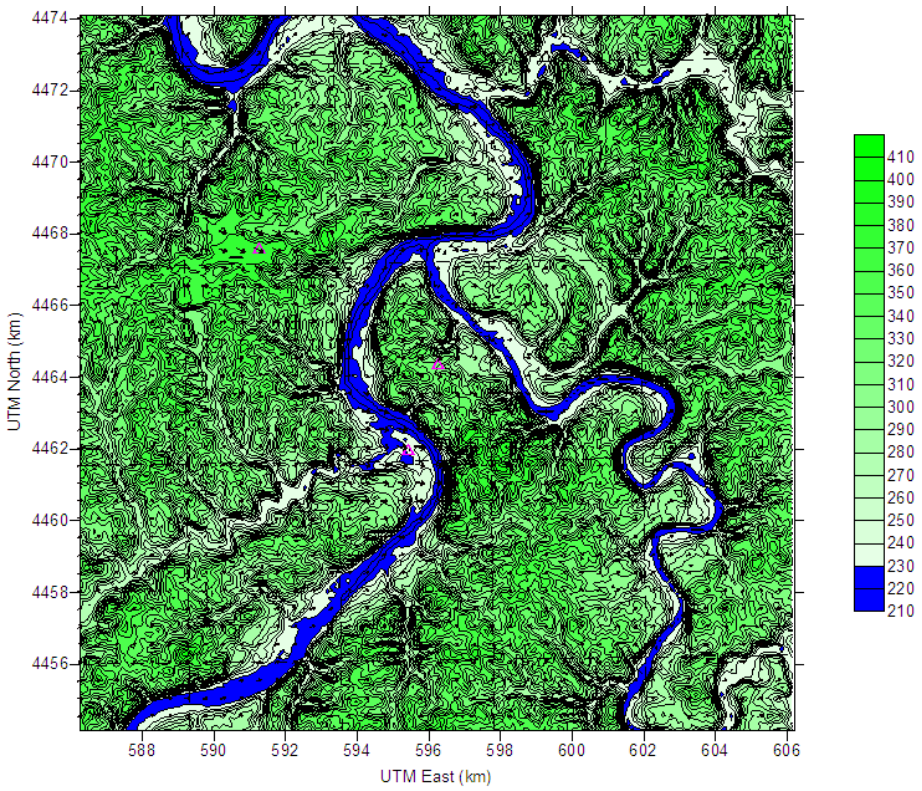


Figure 45: 10-meter AGL Wind Vector Plot for 1800LST September 10, 2002



The second scenario of wind vector plots is for the occurrence of NE regional wind flow over the model domain. This scenario provides the comparison of the wind differences between the Liberty monitor and the USX Clairton monitor under this particular wind regime as defined in Section 8.0 of this report.

The percentage of time that this NE regional wind flow is observed at the Liberty monitoring site is presented in Table14. As can be noted in this table, there is a higher frequency of NE winds during the summer and autumn months with an overall annual percentage of 12 % for the full year.

Table 14: Percent of Occurrence of NE Regional Wind flow Reported at Liberty

Period of Year	Percent of Occurrence
ANNUAL	12%
WINTER	8%
SPRING	8%
SUMMER	15%
AUTUMN	16%

The wind vector plots are presented as a group of four figures per chosen day, one day per season. Figures 46-49 are for 0000 LST January 31, 2002 for 10-meters AGL, 30-meters AGL, 60-meters AGL, and 120-meters AGL respectively. Figures 50-53 are for 0000 LST March 25, 2002 for 10-meters AGL, 30-meters AGL, 60-meters AGL, and 120-meters AGL respectively. Figures 54-57 are for 0000 LST July 24, 2002 for 10-meters AGL, 30-meters AGL, 60-meters AGL, and 120-meters AGL respectively. Figures 58-61 are for 0000 LST October 12, 2002 for 10-meters AGL, 30-meters AGL, 60-meters AGL, and 120-meters AGL respectively.

The pattern to notice in all of these cases is the rotation of the low-level 10-meter AGL west or southwesterly wind flow in the USX Clairton location within the Monongahela River Valley into the regional northeasterly regional flow in the 60-120 meter AGL levels. This pattern is a consistent pattern observed by the onsite personnel observations of the quench tower plumes of the USX Clairton facility. Based on those observations, the lower portions of the plume were typically moving NE towards the valley walls on the opposite side of the river while the upper portions would blow towards the SW as the plume moves at or above the valley walls. We would recommend a thorough documentation of this northeast regional flow and southwesterly return flow along the valley floor to confirm this event in order to provide more confidence in the CALMET wind vector patterns being noted under these conditions.

Figure 46: 10-meter AGL Wind Vector Plot for 0000LST January 31, 2002

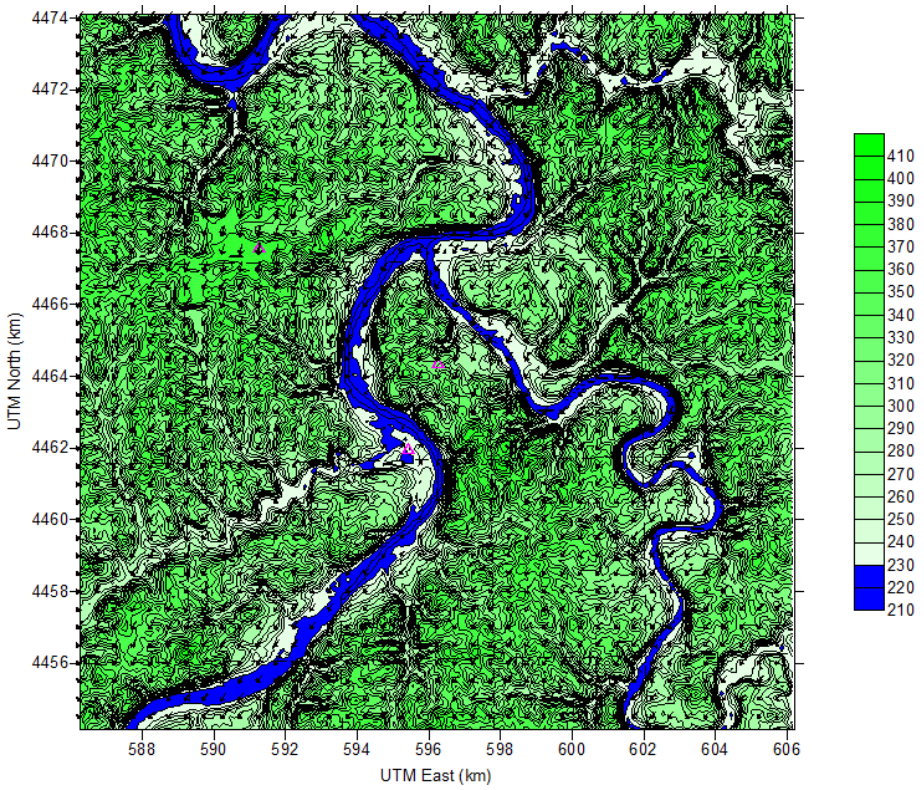


Figure 47: 30-meter AGL Wind Vector Plot for 0000LST January 31, 2002

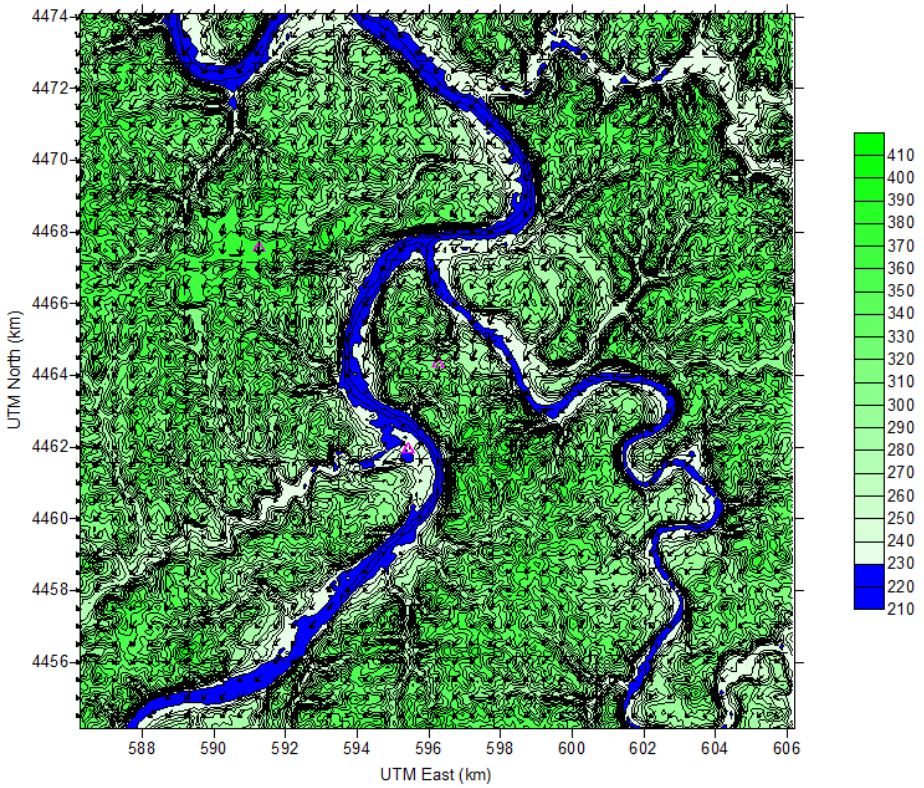


Figure 48: 60-meter AGL Wind Vector Plot for 0000LST January 31, 2002

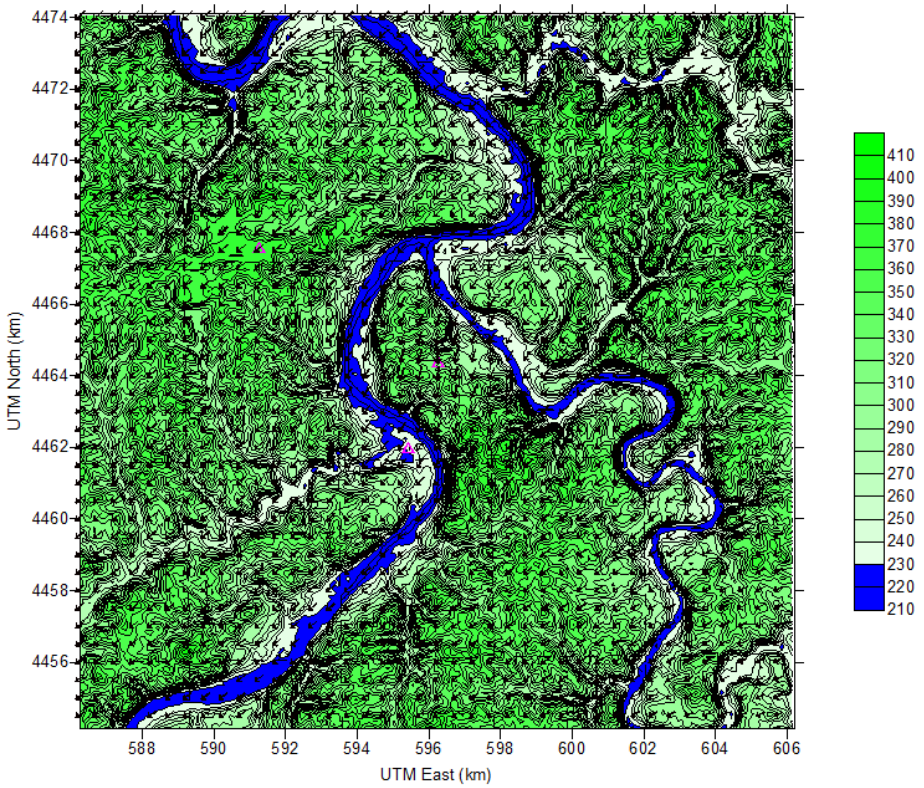


Figure 49: 120-meter AGL Wind Vector Plot for 0000LST January 31, 2002

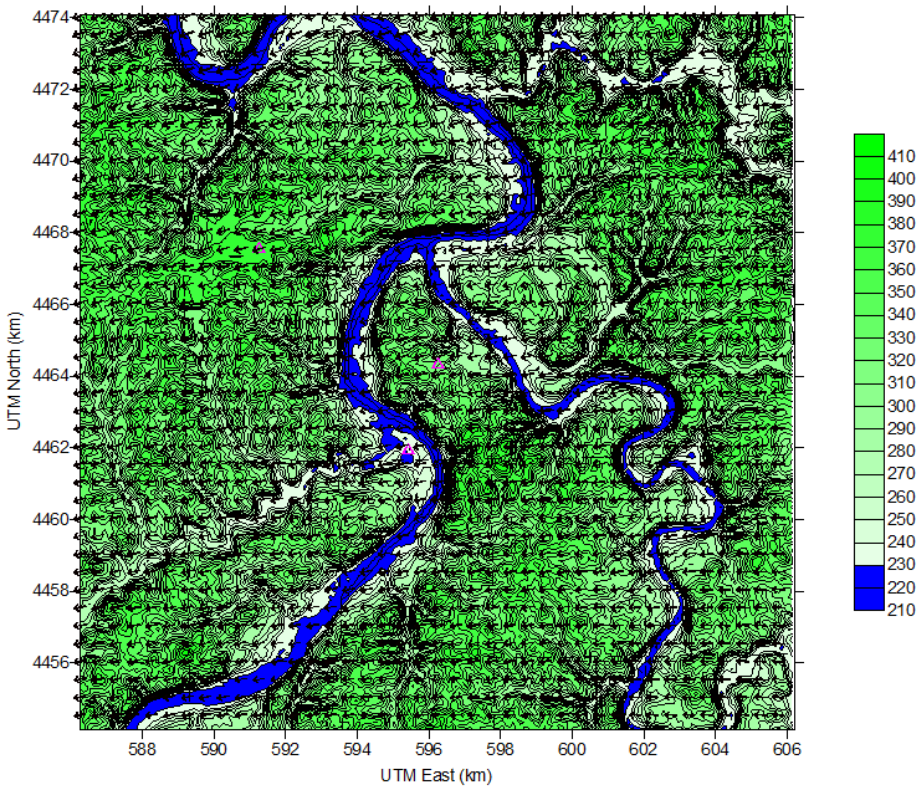


Figure 50: 10-meter AGL Wind Vector Plot for 0000LST March 25, 2002

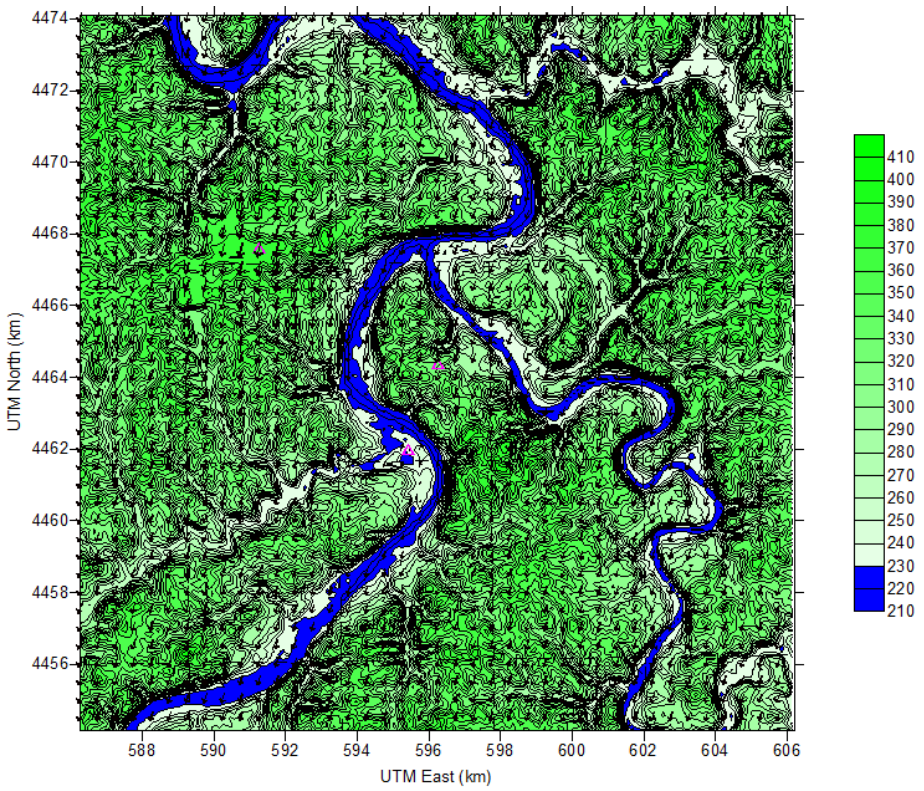


Figure 51: 30-meter AGL Wind Vector Plot for 0000LST March 25, 2002

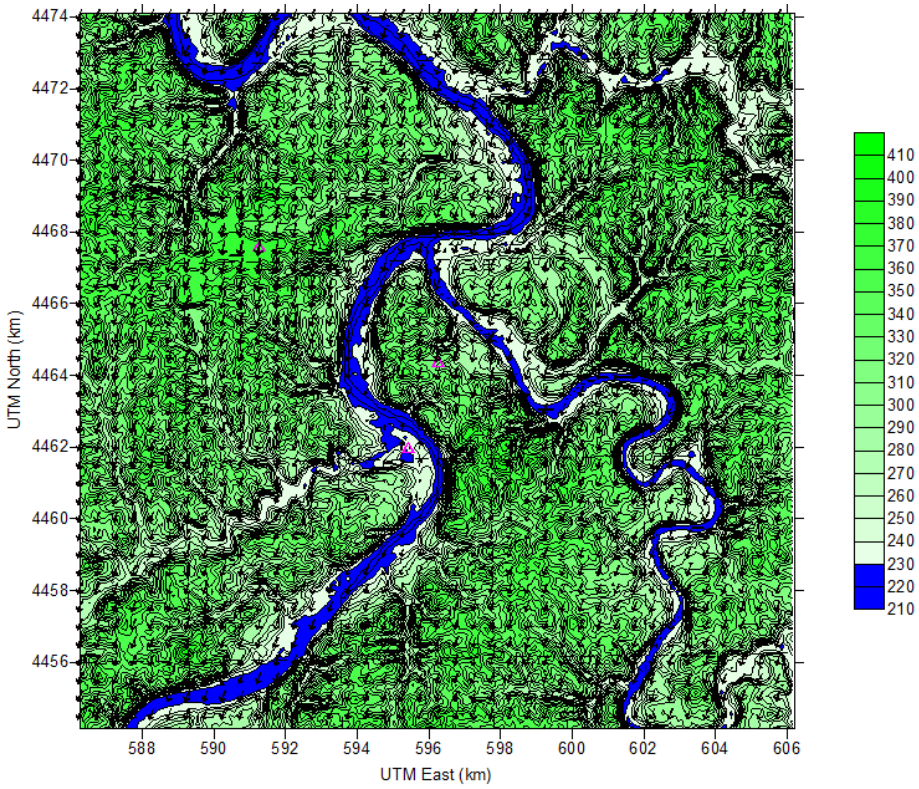


Figure 52: 60-meter AGL Wind Vector Plot for 0000LST March 25, 2002

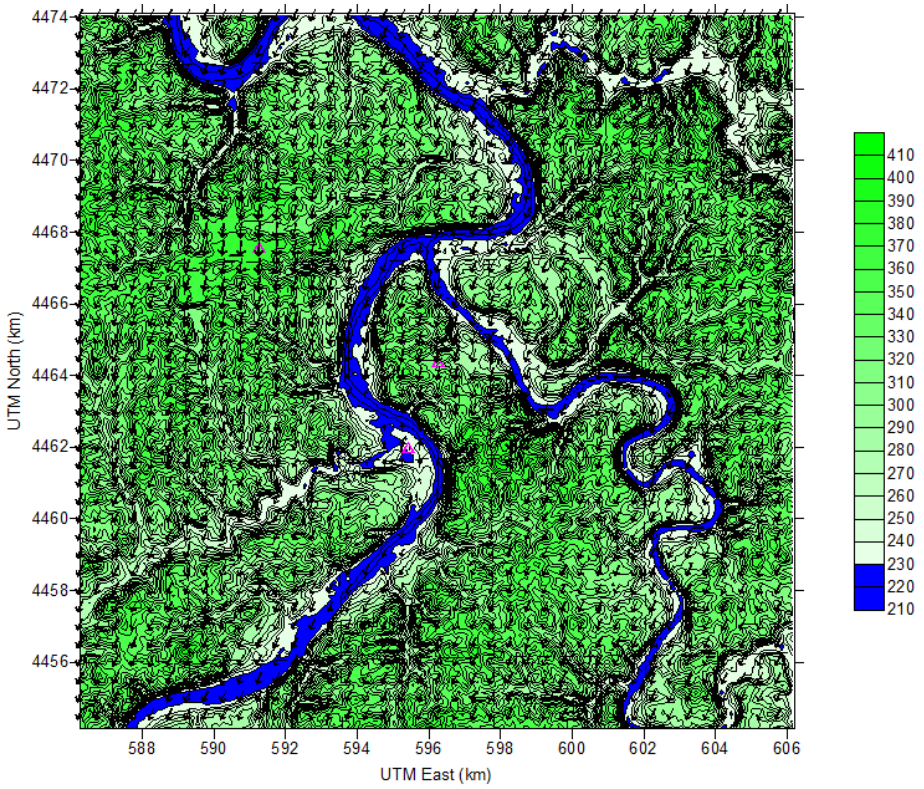


Figure 53: 120-meter AGL Wind Vector Plot for 0000LST March 25, 2002

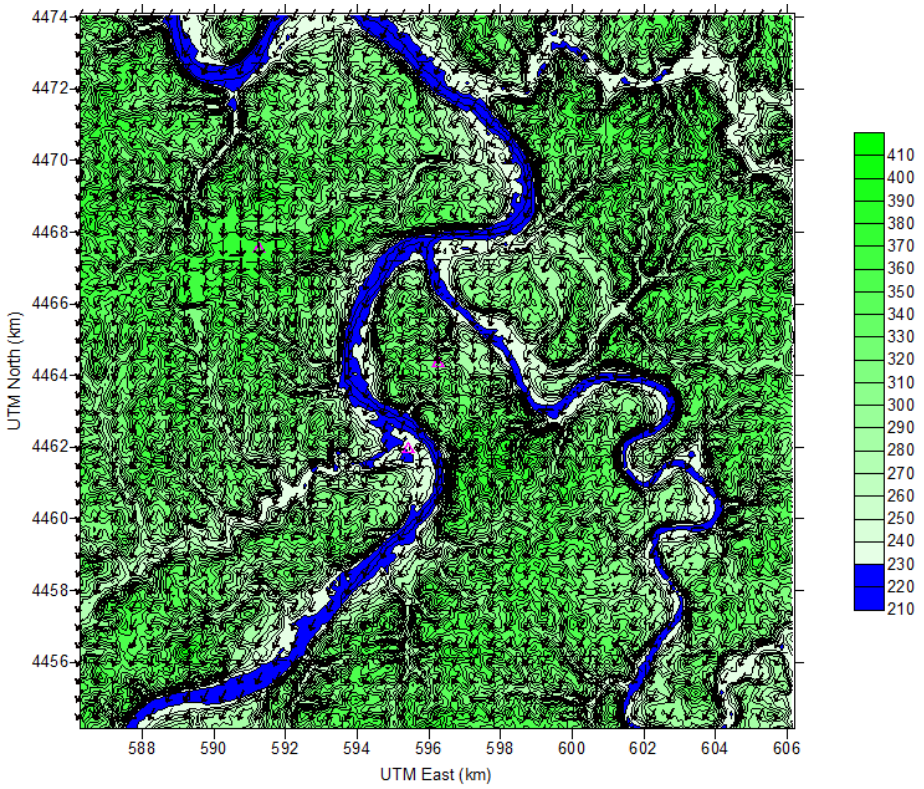


Figure 54: 10-meter AGL Wind Vector Plot for 0000LST July 24, 2002

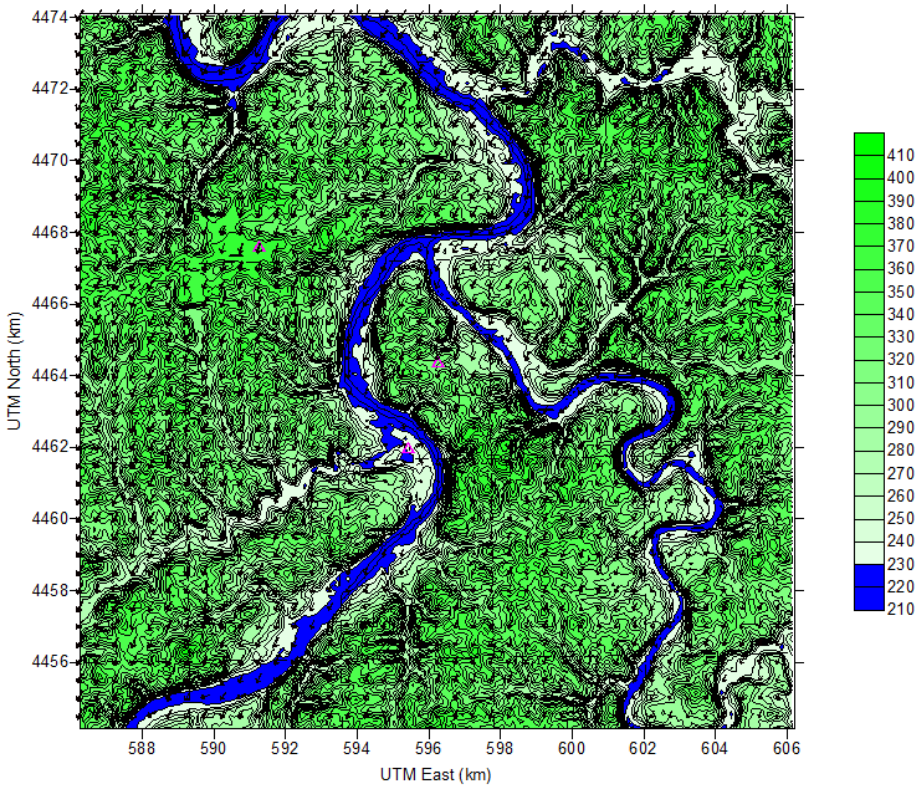


Figure 55: 30-meter AGL Wind Vector Plot for 0000LST July 24, 2002

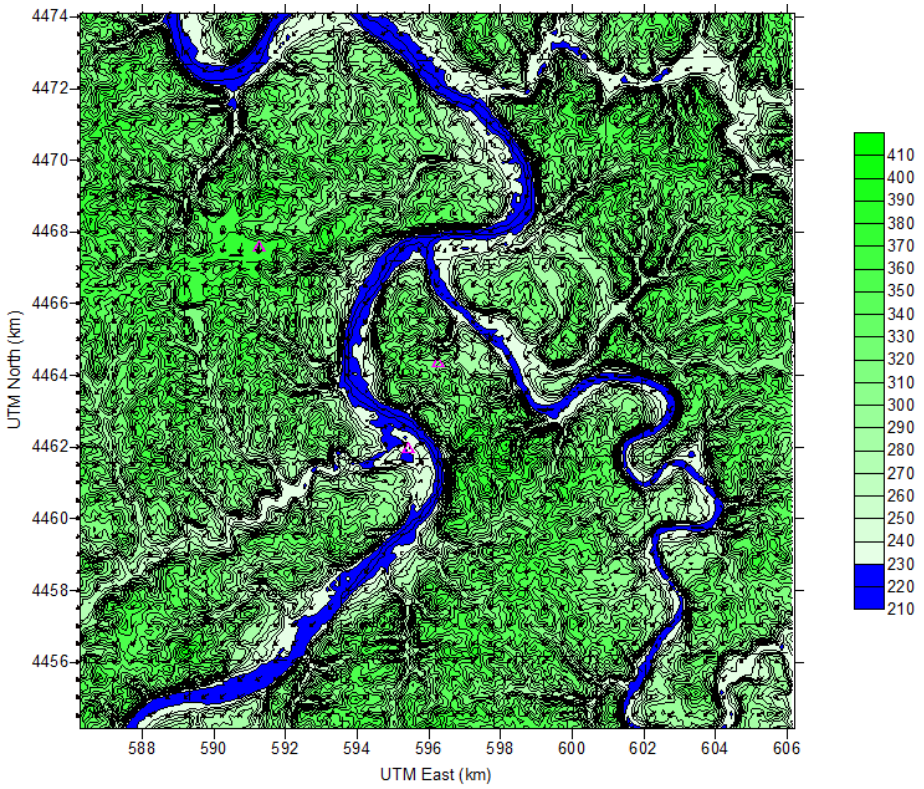


Figure 56: 60-meter AGL Wind Vector Plot for 0000LST July 24, 2002

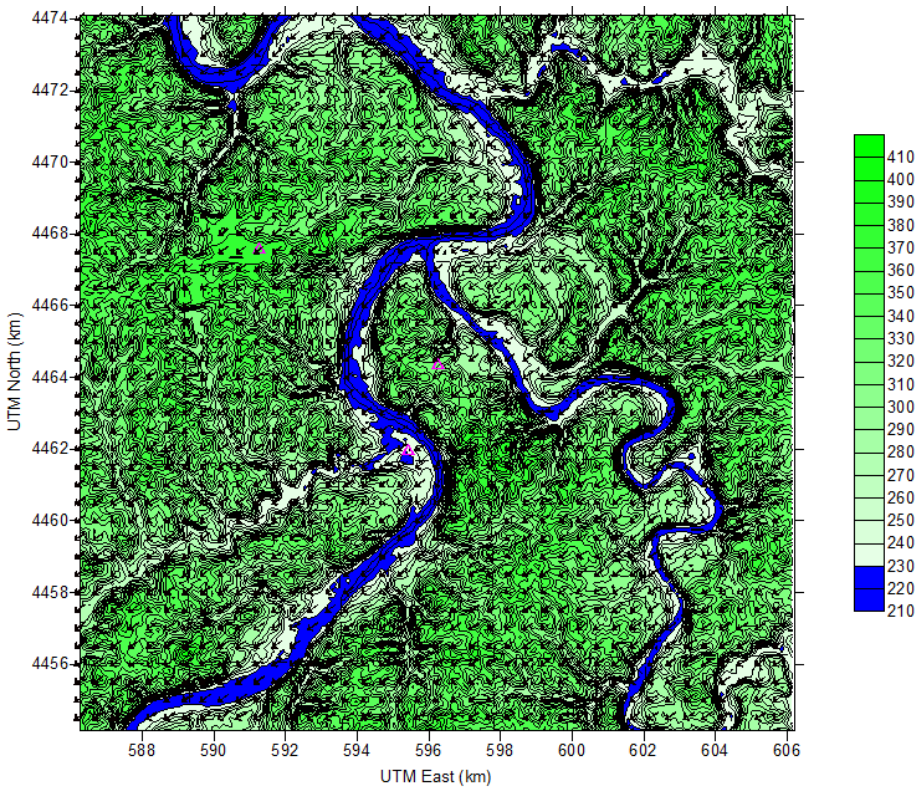


Figure 57: 120-meter AGL Wind Vector Plot for 0000LST July 24, 2002

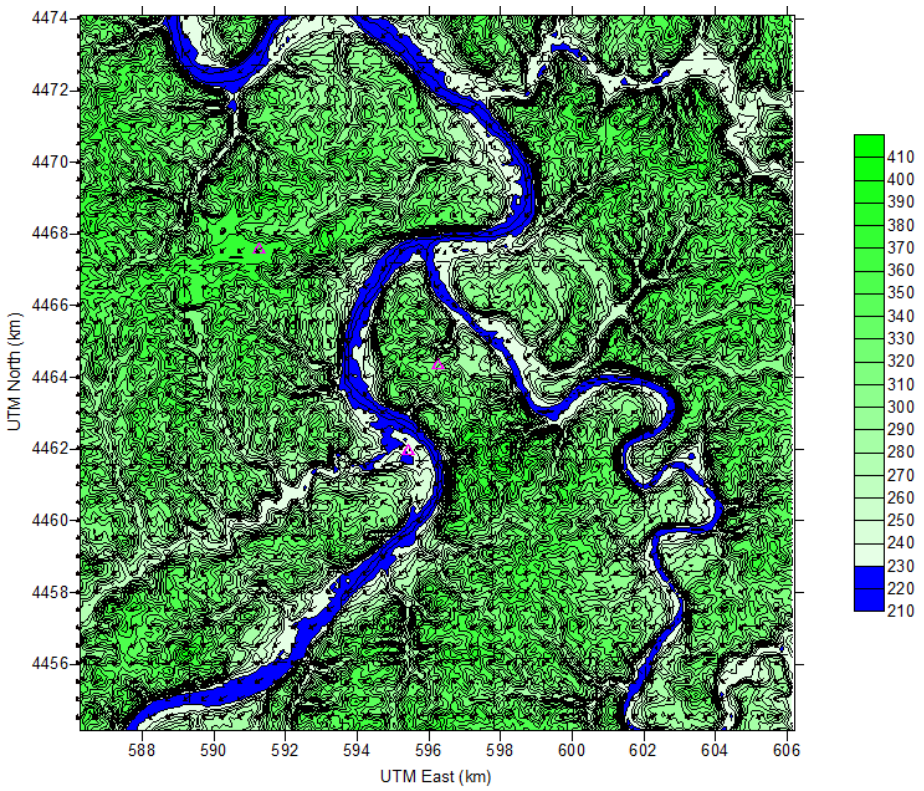


Figure 58: 10-meter AGL Wind Vector Plot for 0000LST October 12, 2002

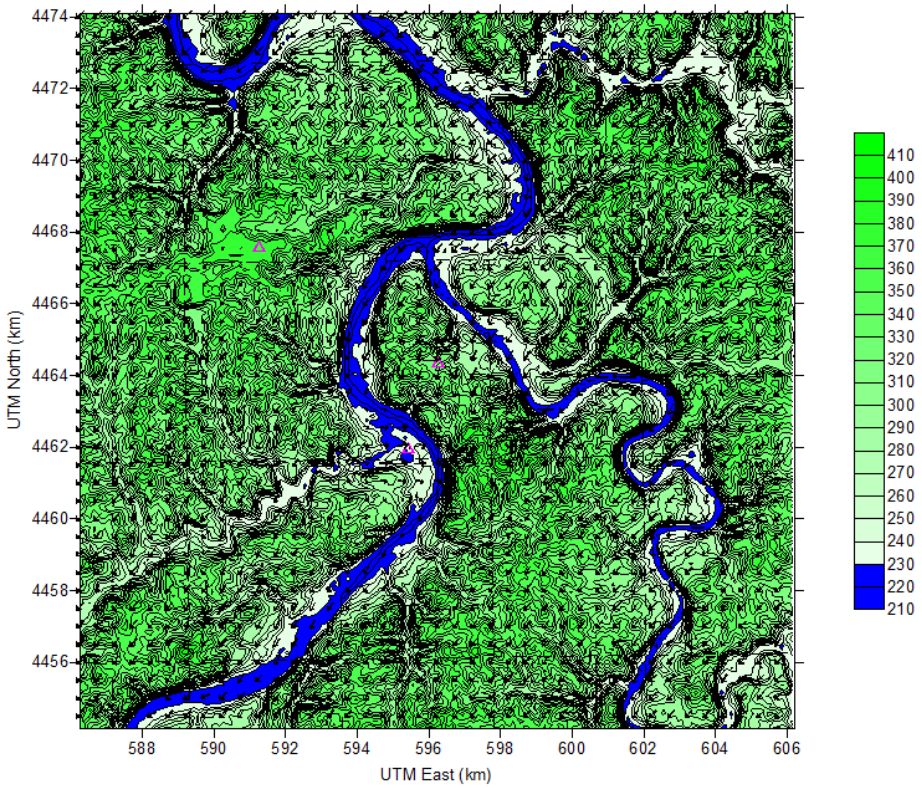


Figure 59: 30-meter AGL Wind Vector Plot for 0000LST October 12, 2002

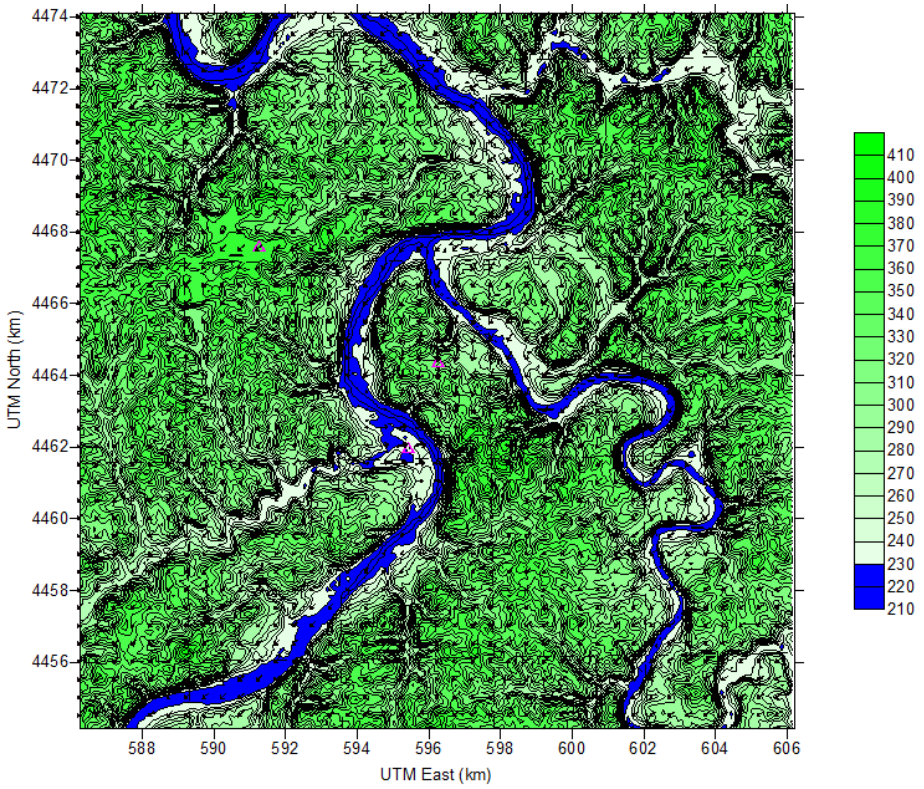


Figure 60: 60-meter AGL Wind Vector Plot for 0000LST October 12, 2002

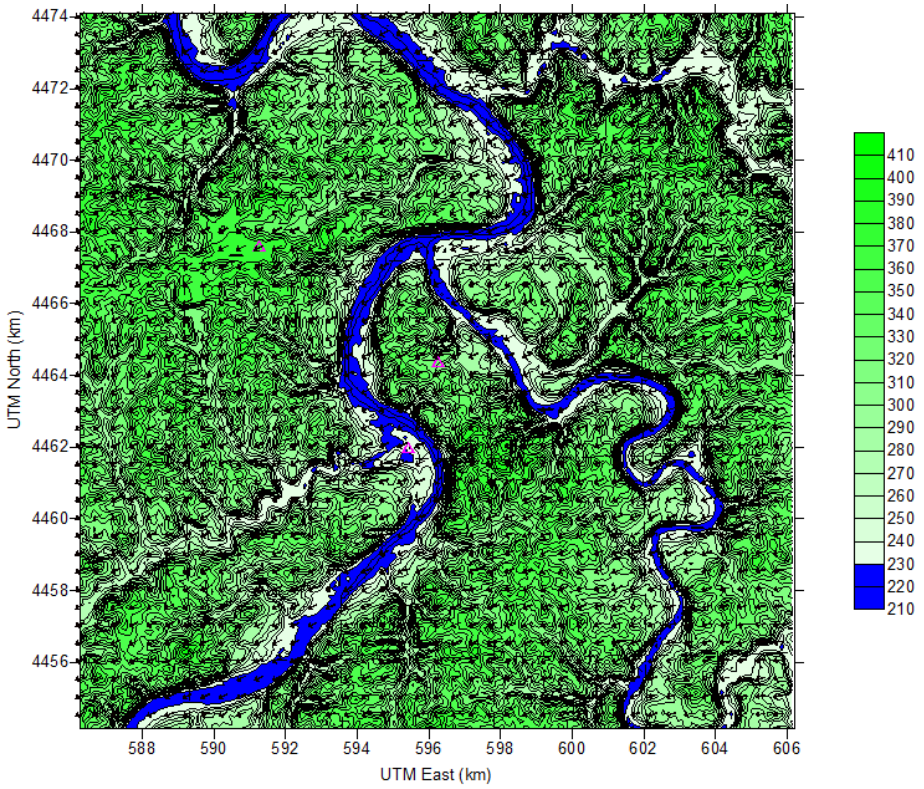
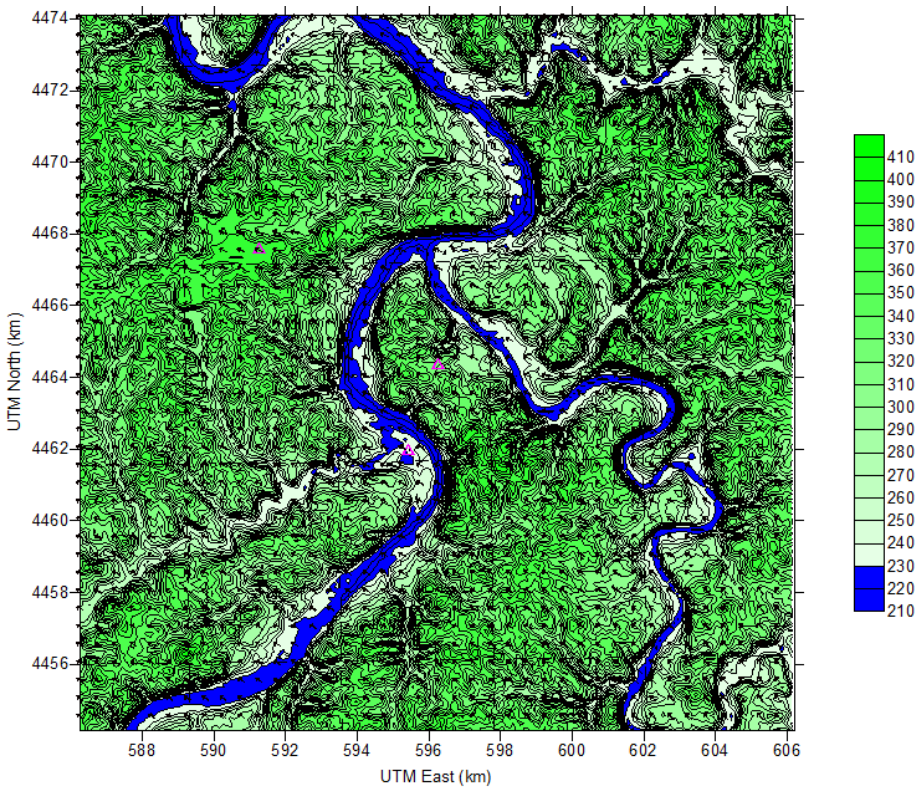


Figure 61: 120-meter AGL Wind Vector Plot for 0000LST October 12, 2002



10.0 Statistical Review of Model Performance Based on METSTAT

Testing of the METSTAT program with example CALMET files produced errors that could not be resolved in time to complete this analysis. In lieu of the METSTAT statistical analysis, a thorough comparison analysis was completed using visual observation of the CALMET predicted wind vector flow patterns based on the changing of the key variables described in Table 13. This comparison analysis resulted in the final values of these key variables described in Table 13 based on the best results of the wind vector flow fields both within and outside of critical the river valleys within the 20-km model domain. The final wind vector plots from the final values of these key variables are presented in Section 9.0 and Appendix A.

11.0 Recommendations for Follow-On CALPUFF Modeling

If and when an updated set of CALMET pre-processors are created by the CALPUFF model developers for the use of the 2001 NLCD land use data format, then we would recommend updating the entire CALMET geophysical data base with this more recent format. The use of this more recent 2001 data format would enhance the land use definition within the 20-km model domain and would result in better definition of dispersion characteristics.

We would encourage a follow-up investigation on the wind flow patterns within the Monongahela River Valley in and around the USX Clairton facility during NE regional wind flow. Documentation of this apparent vertical vortex of winds around and through the valley at this critical location could be used to provide a firm basis in which to verify the predicted wind patterns noted in this region.

12.0 References

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Scire J., Robe F.R., Fernau M.E., Yamartino R.J., 2000b: A User's Guide for the CALMET Meteorological Model (Version 5). Earth Tech, Inc., Concord, MA, January, 2000, 332 pp.

Appendix A: Full 1-Year (2002) Set of CALMET Predicted Wind Vector Flow Fields

The attached file called "APPENDIX_A.ZIP" contains a full set of seasonal zipped files contains the predicted wind vector fields for the lowest 6-levels (10m, 30m, 60m, 120m, 240m, and 480m).

The seasonal zip files included in this main zip file are named:

1. WINT-JF.ZIP (January and February)
2. SPRN.ZIP (March, April, and May)
3. SUMM.ZIP (June, July, and August)
4. AUTM.ZIP (September, October, and November)
5. WINT-D.ZIP (December)

Two additional files are also included for plotting purposes within CALVIEW:

1. LIBCMN.CMN (common grid file for CALVIEW)
2. BASE.SRF (base map for CALVIEW)

Appendix B: Special Meteorological Study of 1996

The attached zip File named “APPENDIX_B.ZIP” contains summary report named “Meteorology – Clairton Area 1996.pdf”

Appendix C: Final Version of the Seasonal CALMET Input File

The attached zipped file named “APPENDIX_C.ZIP” contains the following CALMET input files:

1. WINT-JF.INP (January and February)
2. SPRN.INP (March, April, and May)
3. SUMM.INP (June, July, and August)
4. AUTM.INP (September, October, and November)
5. WINT-D.INP (December)

Appendix D: Regression Analysis Spreadsheet for USX Clairton

The attached zip file named “APPENDIX_D.ZIP” contains the EXCEL Spreadsheet named “LIB_USX_2003_MET_REV.XLS”.

$PM_{2.5}$ SIP

Appendix E

ACHD Speciation and PMF Analyses

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Allegheny County Health Department
Air Quality Program
301 39th St., Bldg. #7
Pittsburgh, PA 15201

$PM_{2.5}$ Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results

June 7, 2005

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1. Introduction

Allegheny County has operated two particulate matter – 2.5microns or less ($PM_{2.5}$) – chemical speciation monitors as part of EPA's STN network since 2001. Lawrenceville and Hazelwood were the initial sites of deployment, and species concentrations from these sites were nearly equal. The Hazelwood monitor was then moved to Liberty Borough in October 2003 to better ascertain $PM_{2.5}$ in Liberty-Clairton area.

Allegheny County was designated nonattainment for $PM_{2.5}$ as part of the Pittsburgh-Beaver Valley area in December 2004. At the same time, the Liberty Borough-Clairton area was designated a separate nonattainment area within Allegheny County.

Major species concentrations at Lawrenceville parallel those sampled at other Eastern U.S. metropolitan areas, while the concentrations at Liberty follow their own course. The differences in concentrations of many elements may provide clues to the regional, urban excess, and localized river valley components of $PM_{2.5}$ in Allegheny County.

This report shows species and pollutant comparisons between the two sites over the timeframe of October 2003-March 2005. All figures and tables represent 18-month data unless otherwise noted.

2. Sites

The Lawrenceville monitor site is an urban residential site, downwind from the Pittsburgh Central Business District (Downtown). Elevation is 918 feet above mean sea level (MSL), about 200 feet above river level.

The Liberty Borough monitor site is located in the Monongahela Valley, which contains a mix of urban residential, heavy industrial, and rural areas. The elevation is 1100 feet MSL, and the predominant winds are southwesterly.

Average temperature and pressure are lower at Liberty, coinciding with higher elevation. Elevation alone does not appear to play a role in $PM_{2.5}$ concentrations at Liberty, as other sites such as South Fayette measure lower concentrations at higher elevations than Liberty.

The speciation sampling frequency is higher at Lawrenceville (1-in-3) than at Liberty (1-in-6), so averages at Lawrenceville represent a larger array of values. For some figures in this report, dates have been matched to compare concurrent sampling days only.

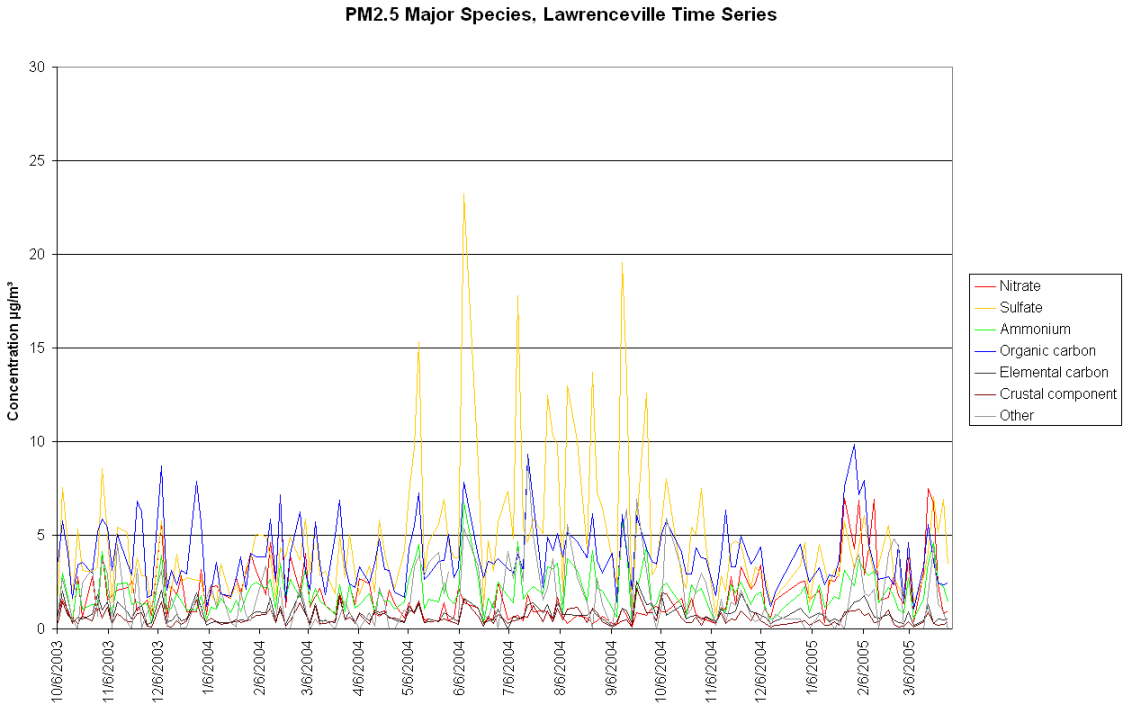
Both sites are collocated with other monitors, including daily $PM_{2.5}$ filter-based (FRM) and hourly continuous $PM_{2.5}$ monitors. Additionally, Lawrenceville measures ozone and NO_x, and Liberty measures PM_{10}, SO_2, H_2S, and benzene.

Sites near Liberty include Glassport (PM_{10}, SO_2) and Lincoln (PM_{10}). These nearby sites have been included in this analysis for possible correlation to Liberty.

3. Major Species

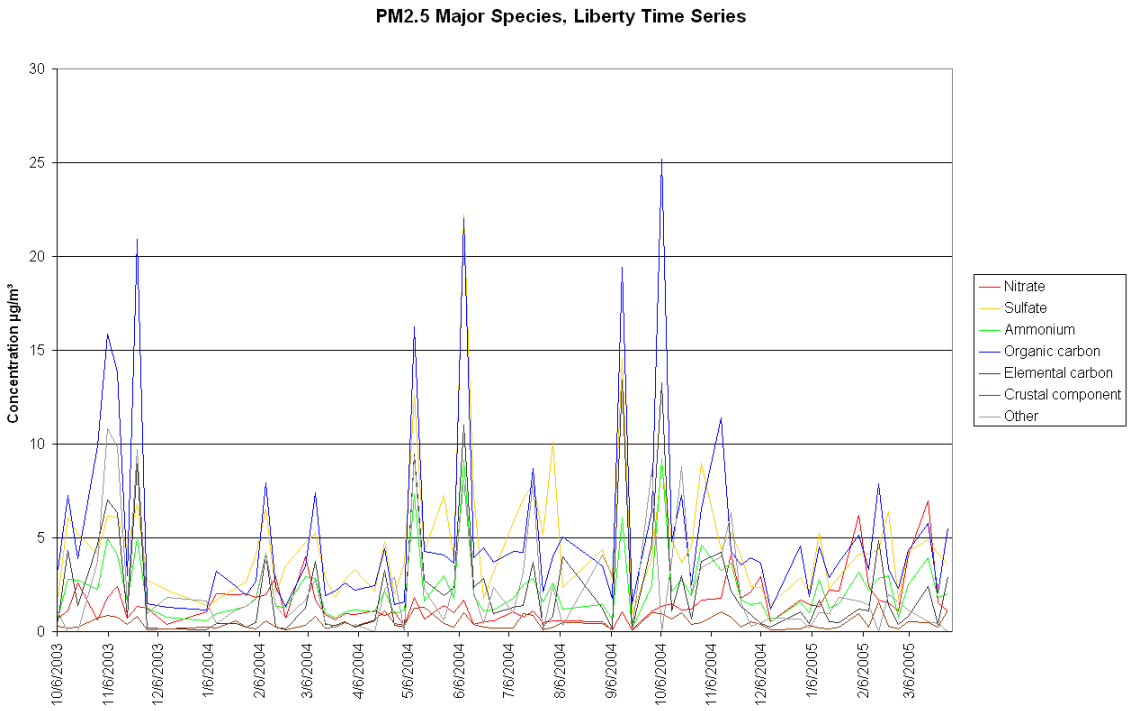
Below are time series plots for Lawrenceville and Liberty $PM_{2.5}$ major species over the 18-month timeframe.

Lawrenceville is dominated by sulfates during summer months. In colder months, nitrates and organics tend to dominate.

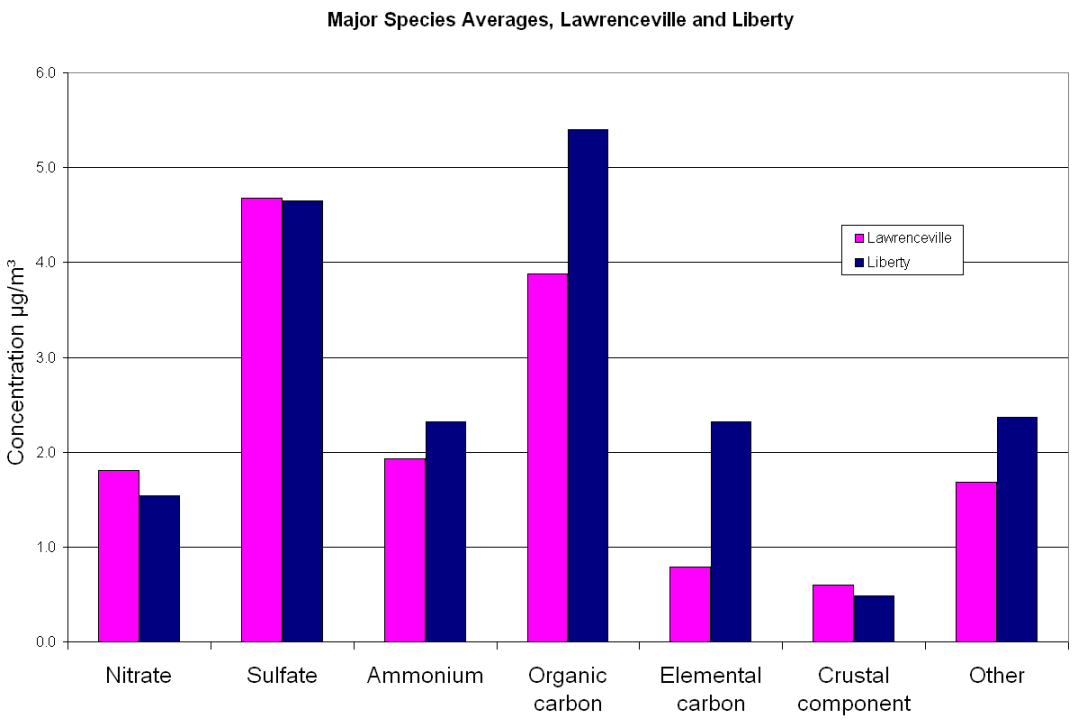


In late January and early February 2005, an anomaly is evident by the exaggerated organic carbon and nitrate peaks. This is likely due to an exceptional high-pressure meteorological system that led to high $PM_{2.5}$ throughout the Midwest and Northeast U.S.

Liberty shows a much different pattern of major $PM_{2.5}$ species over time. While it shows similar levels of sulfates and nitrates to Lawrenceville, it is dominated by organic and elemental carbon year-round.



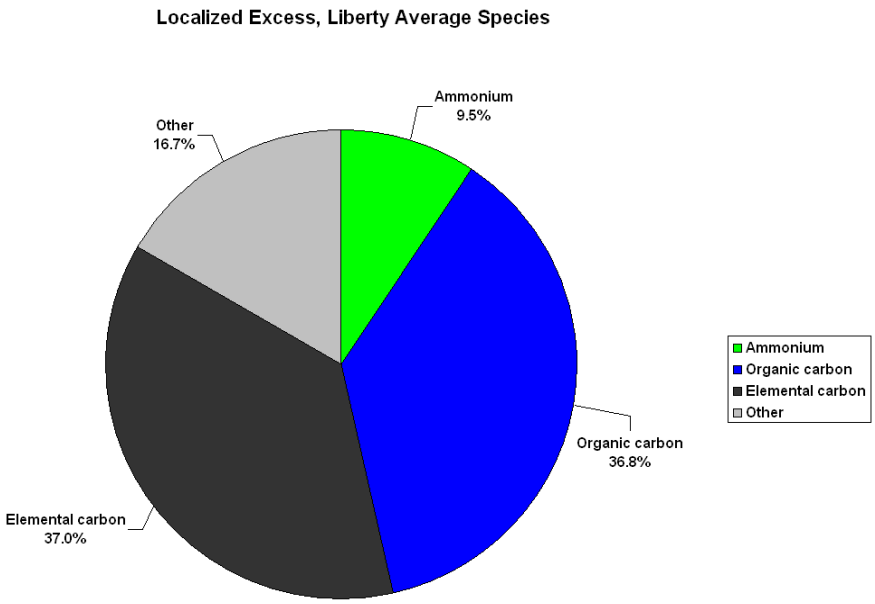
The differences in average carbon levels, as well as ammonium and the "other" component, are shown below.



Sulfates, nitrates, and crustal component are slightly lower at Liberty than at Lawrenceville.

Crustal component is a weighted average of the aluminum, silicon, calcium, iron, and titanium concentrations, representative of fine soil.

By calculating the differences of the average major species, localized excess at Liberty is given by the pie chart below. This excess represents the difference between the Lawrenceville and Liberty sites for species that are greater at Liberty.

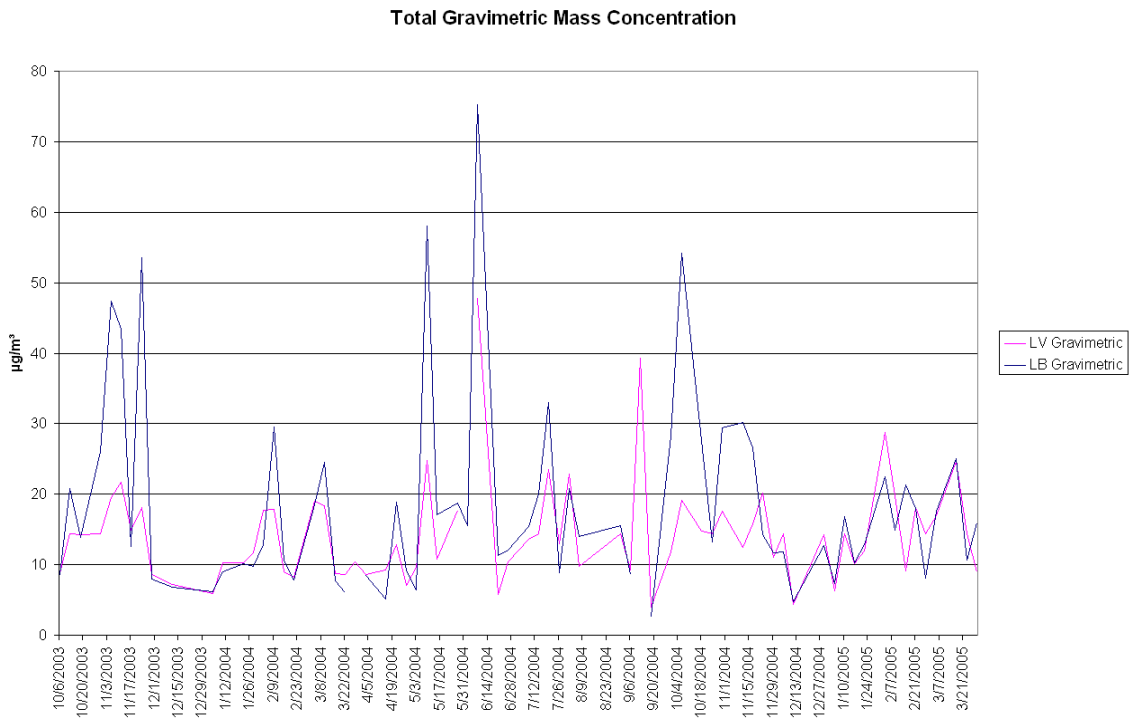


The “other” component is defined as the difference between the gravimetric (weighed) mass concentration and the sum of the major species. It can include the following:

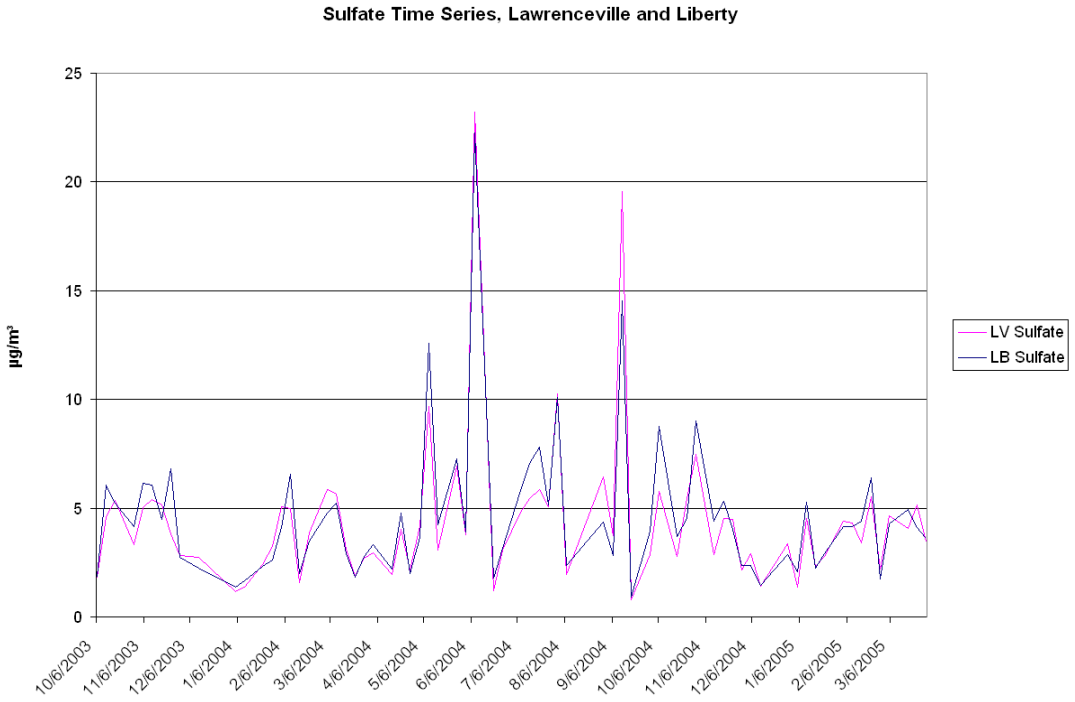
- Non-crustal, non-sulfur trace elements
- Water
- Non-organic, non-elemental carbon
- Unknown species

4. Matched Time Series, by Species

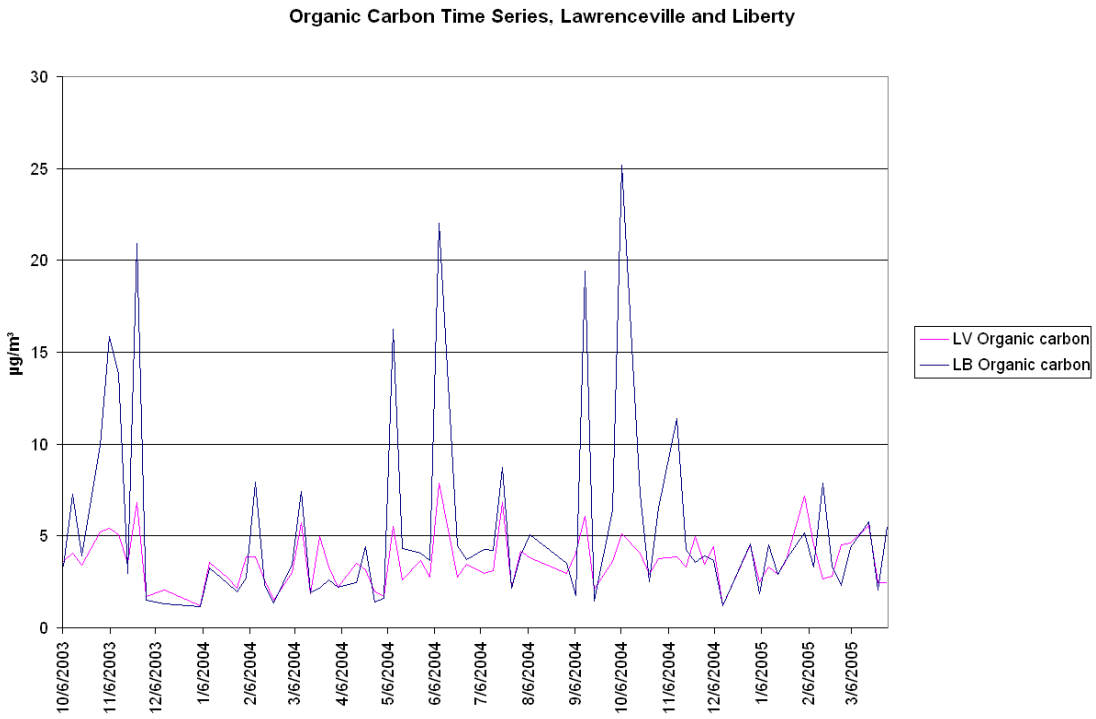
Concurrent sampling at Lawrenceville (LV) and Liberty (LB) occurs every 6 days. Plots of these date-matched samples reveal direct comparisons of species at the two sites. Plots for major species are given below.



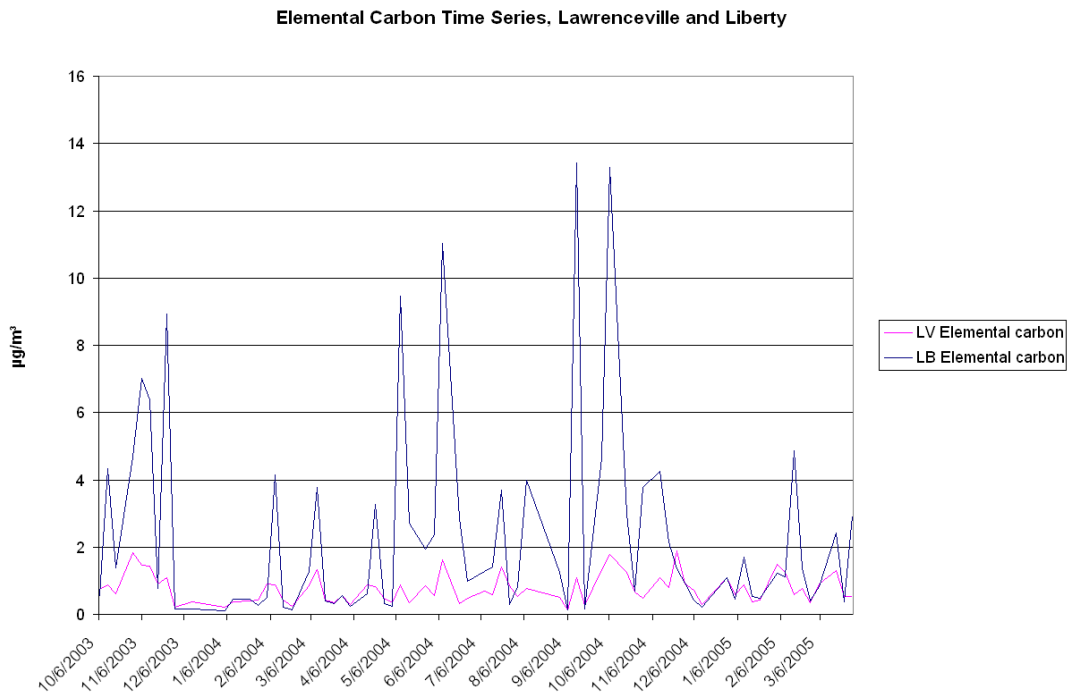
Total $PM_{2.5}$ at Lawrenceville and Liberty show similar peaks at the same times, but to varying extents at each site. Liberty is generally the highest site on peak days, but can be lower for some peaks. On average or low $PM_{2.5}$ days, Liberty and Lawrenceville are often nearly equal. This indicates that regional flow and meteorology may be the primary controlling factors in the formation of $PM_{2.5}$ on low and average days. Wind speed aloft (upper air), relative humidity, and temperature can affect both sites on a broad-scale. Additional accumulation at Liberty may be dependent on local conditions such as surface wind and temperature.



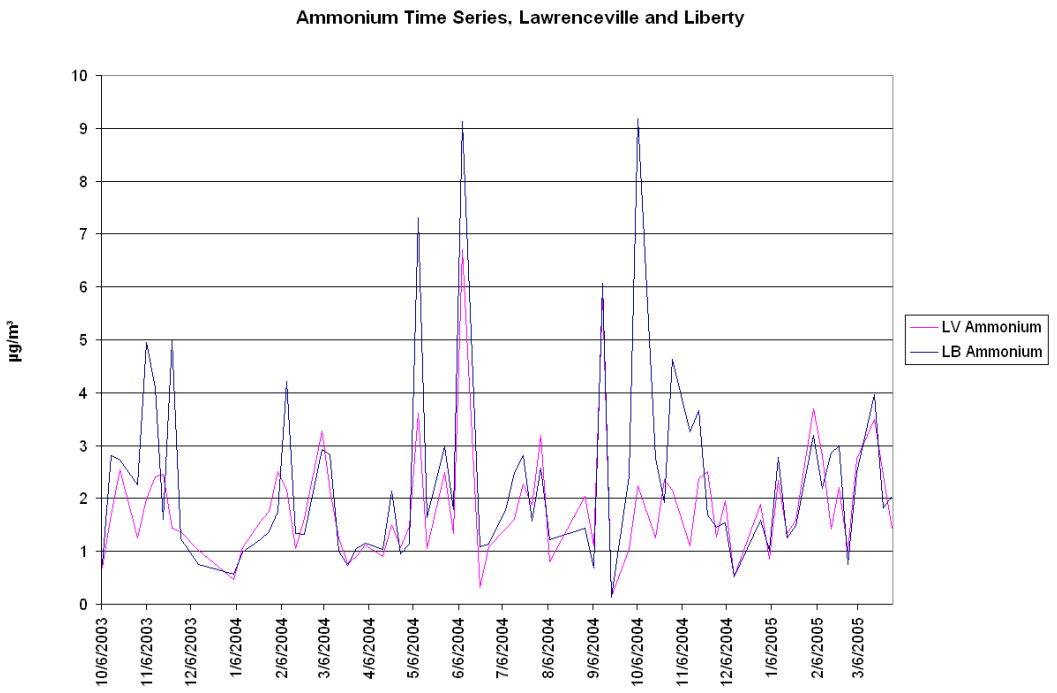
Sulfate is nearly identical at both sites year-round. This indicates that sulfate is primarily affected by regional flow upwind of Allegheny County. Minor differences in peaks may be indicative of local meteorology or minor source impacts.



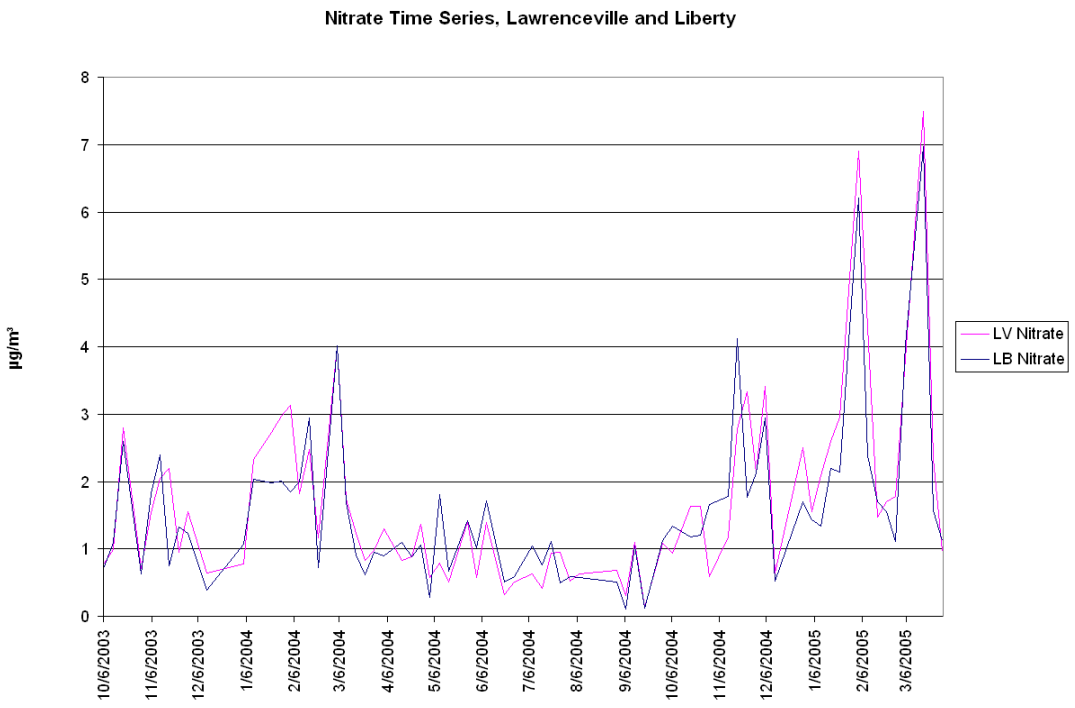
Organic carbon is similar to total mass concentration in that the peaks occur at the same times at both sites but to varying degrees. The peak discrepancies are higher for organic carbon than for total concentration, however, indicating that localized factors may be more controlling for organic carbon.



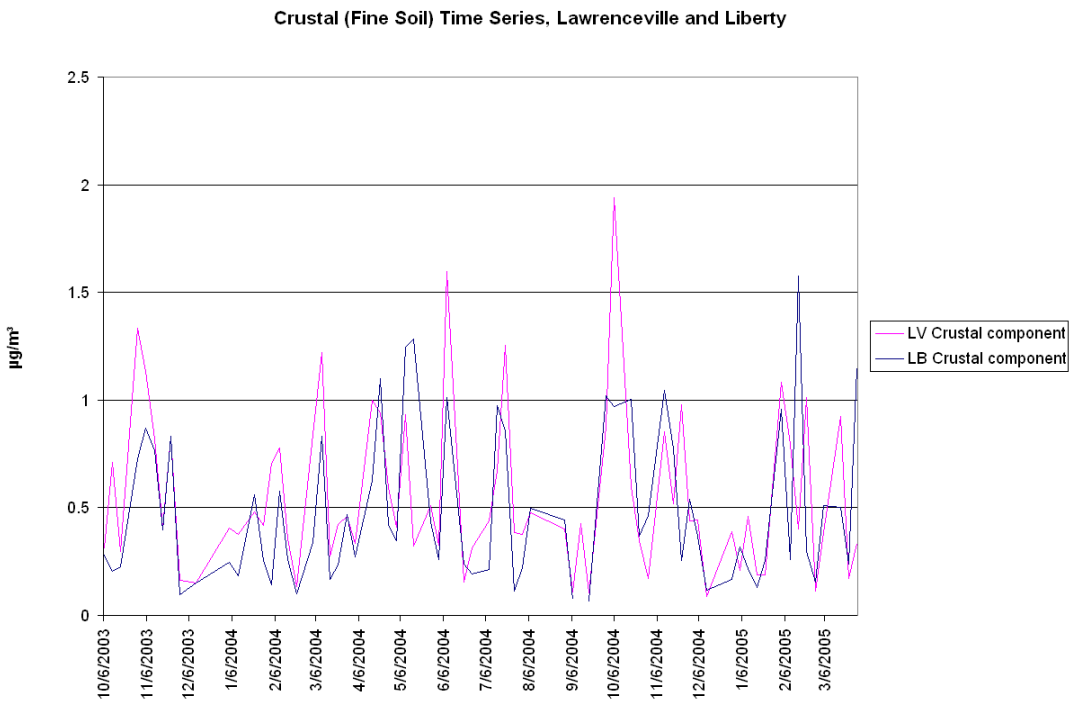
Similar to organic carbon, elemental carbon shows a localized influence at Liberty.



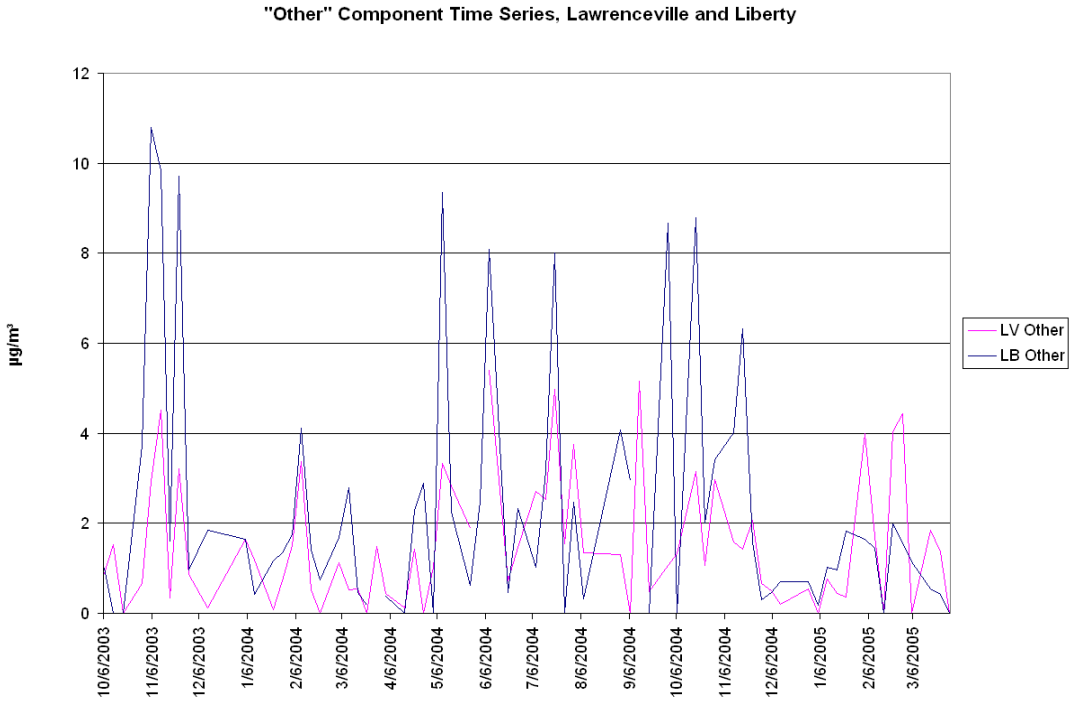
Ammonium can be higher at Liberty on certain days, but not as frequently as organic and elemental carbon.



Nitrate appears to be a regional species like sulfate, although nitrate differences between Lawrenceville and Liberty can be more pronounced than sulfate differences.



The crustal component appears to be a regional-only species. Liberty crustal component is actually lower for many days, suggesting rural behavior for some crustal elements at Liberty.



The “other” component shows similar trends to organic carbon, with Liberty showing much greater concentrations than Lawrenceville on peak days.

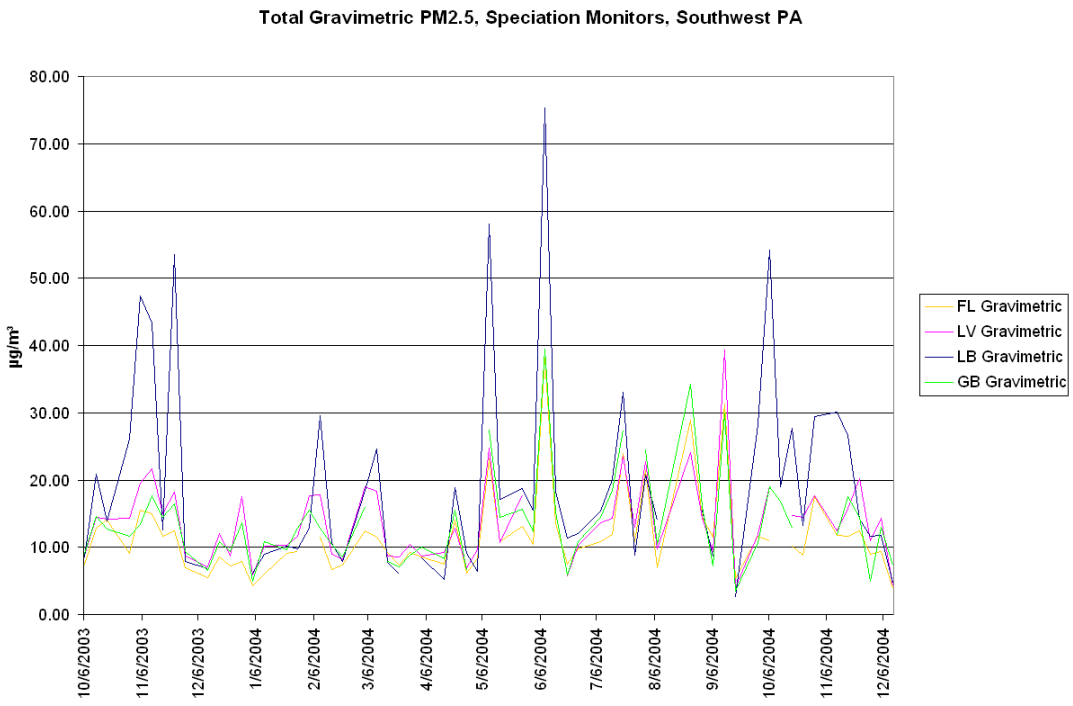
5. Matched Time Series, Southwest PA Sites, by Species

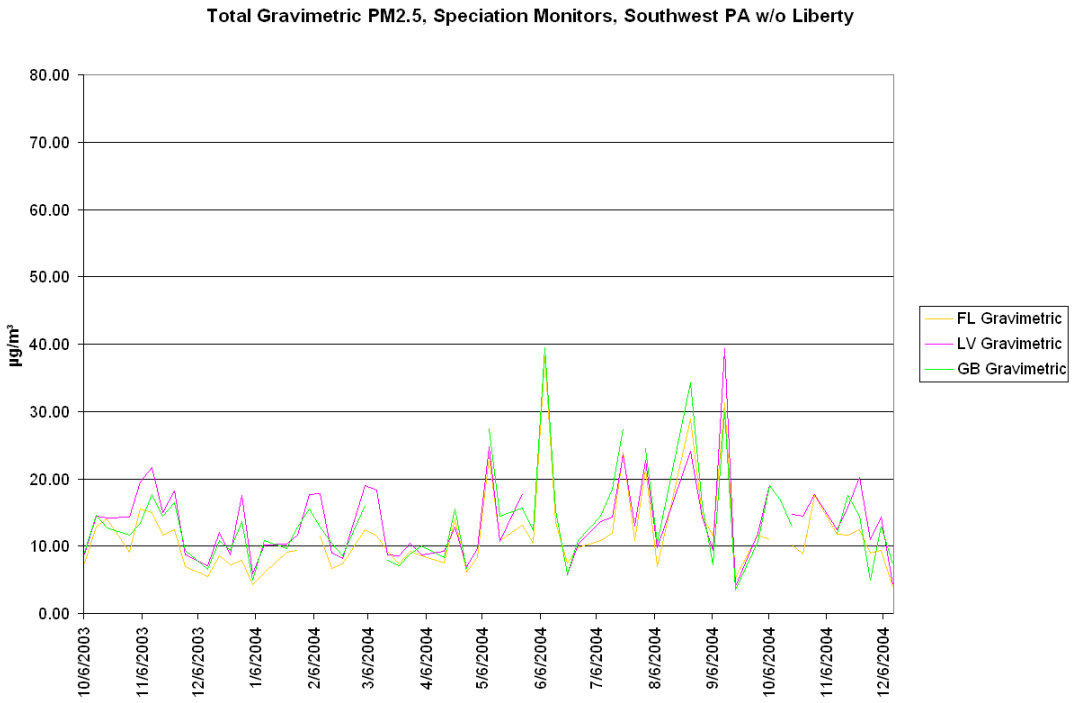
On a regional level, the Pennsylvania Dept. of Environmental Protection (PA DEP) operates two additional $PM_{2.5}$ speciation monitors in Southwest PA: Florence and Greensburg.

Florence (FL) is upwind from Allegheny County, located in Hillman State Park in Washington County, about halfway between Weirton, WV and the Pittsburgh International Airport. It presumably monitors regional flow of particulates into the Southwest PA region from upwind sources primarily in the Ohio Valley and WV Northern Panhandle.

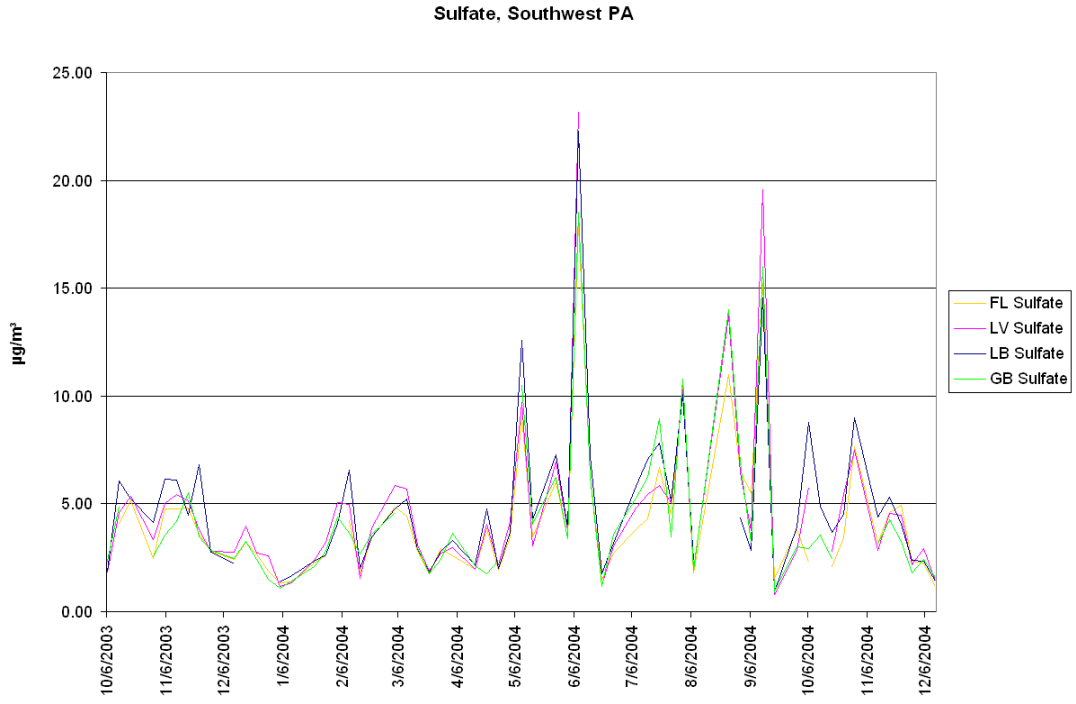
Greensburg (GB) is downwind from Allegheny County, situated east of Greensburg near the Westmoreland Mall. It presumably monitors outgoing regional flow from Southwest PA, in addition to some urban excess from Pittsburgh and/or Greensburg.

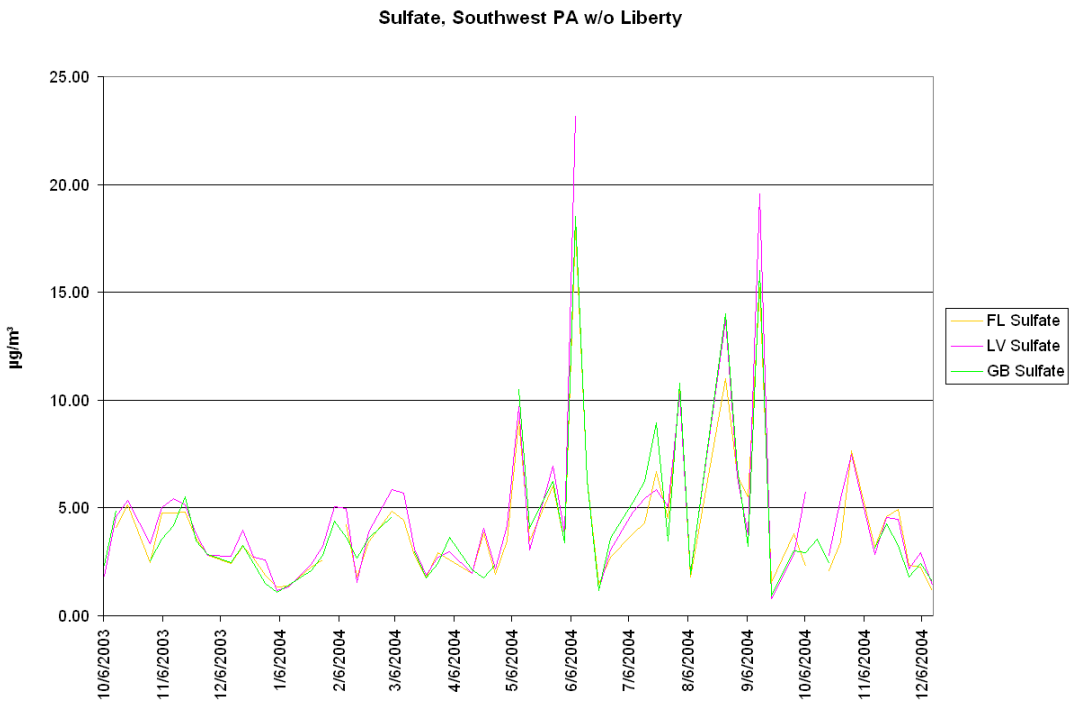
For the following plots, matched time series plots for major species are first given for all four sites in Southwest PA, and then without Liberty. Data is shown over the timeframe of Oct. 2003 – Dec. 2004.



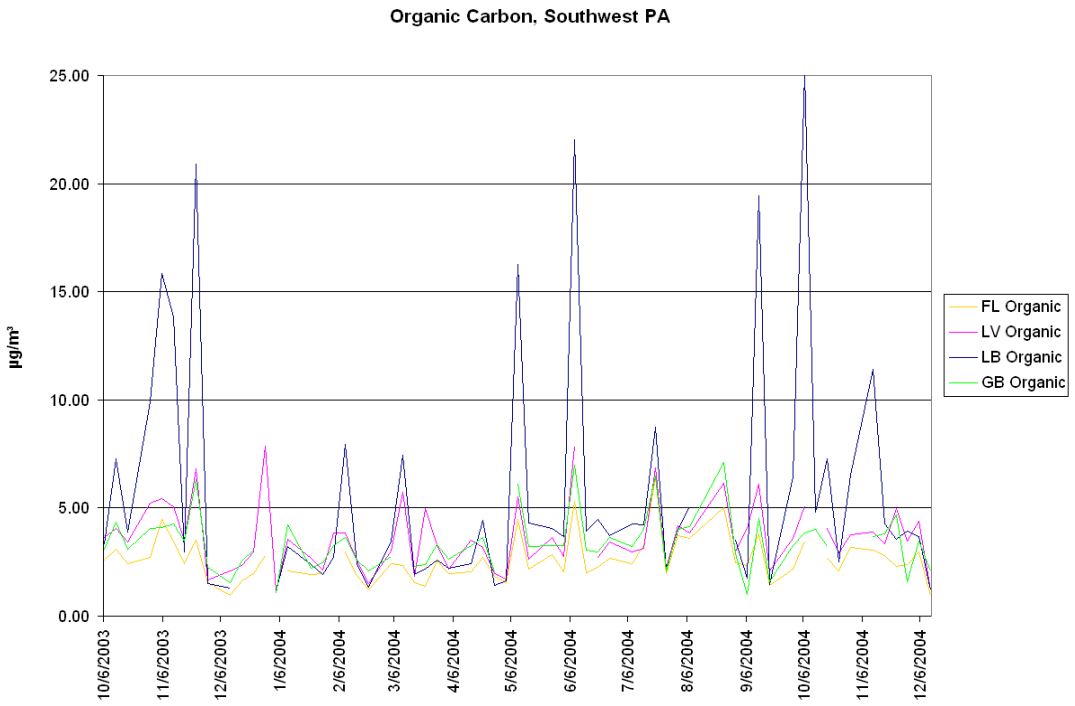


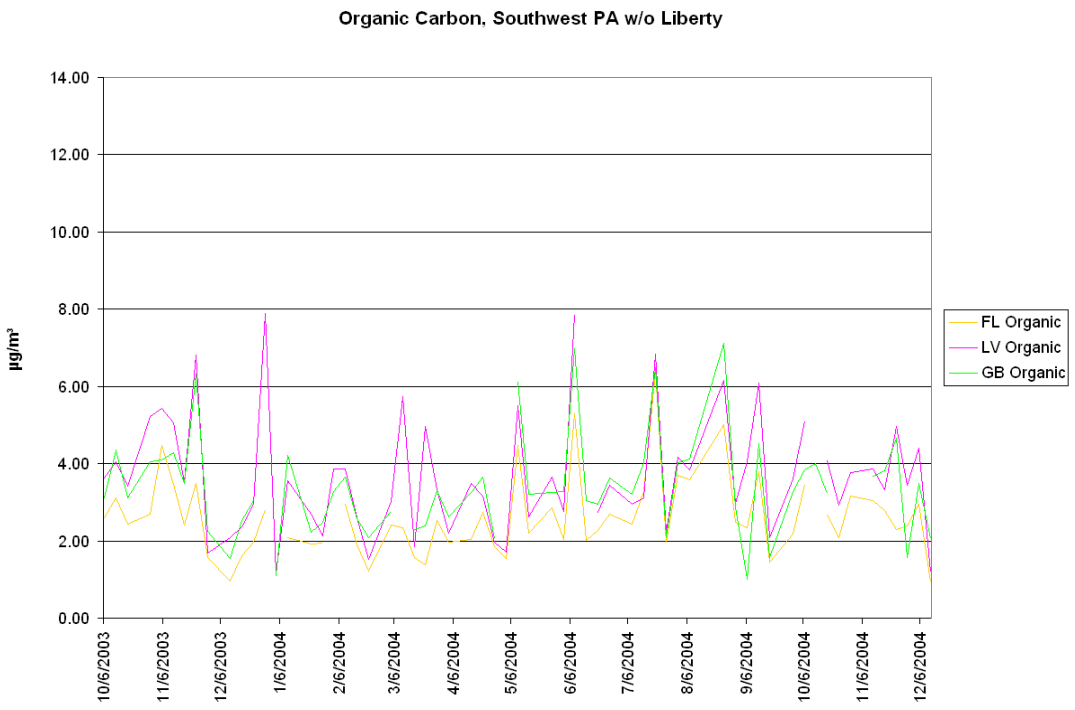
By total gravimetric (weighed) mass concentration, Florence, Lawrenceville, and Greensburg match well, indicative of the regional flow through the multi-county area. Liberty shows the highest mass concentrations, due to the regional flow plus localized excess. Lawrenceville and Greensburg show the next highest concentrations, due to gained urban excess. Accordingly, Florence is usually the lowest by total mass, since it reflects regional flow without localized urban excess.



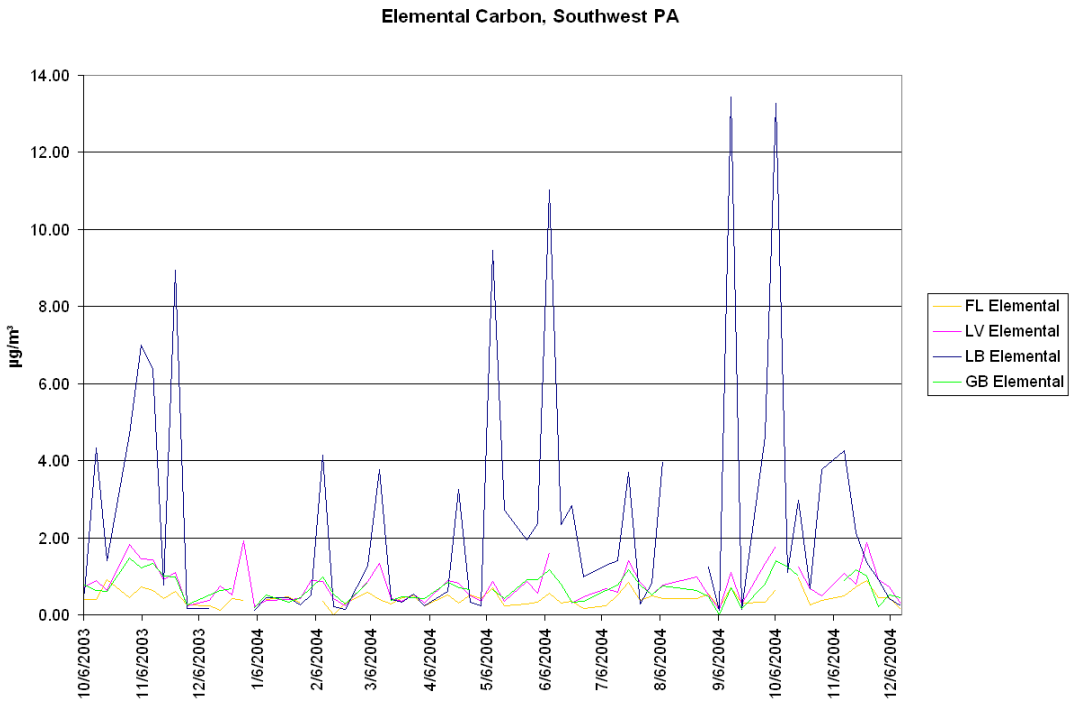


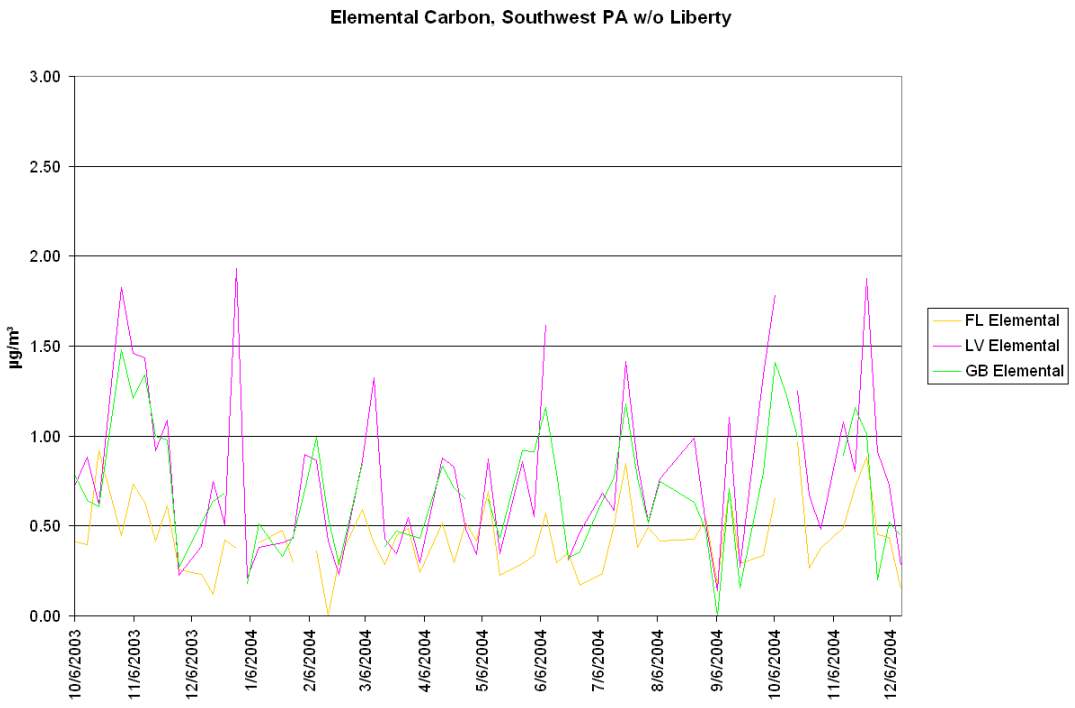
Sulfate time series plots strongly suggest that it is the result of regional flow for Southwest PA, as it is nearly equal at all sites.



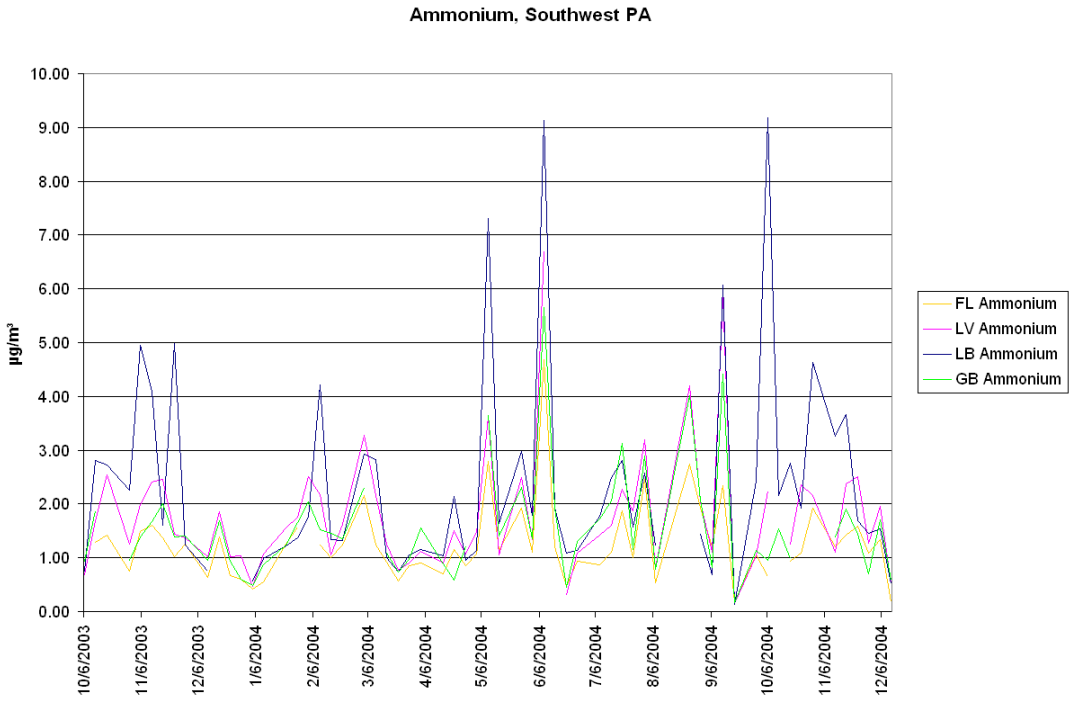


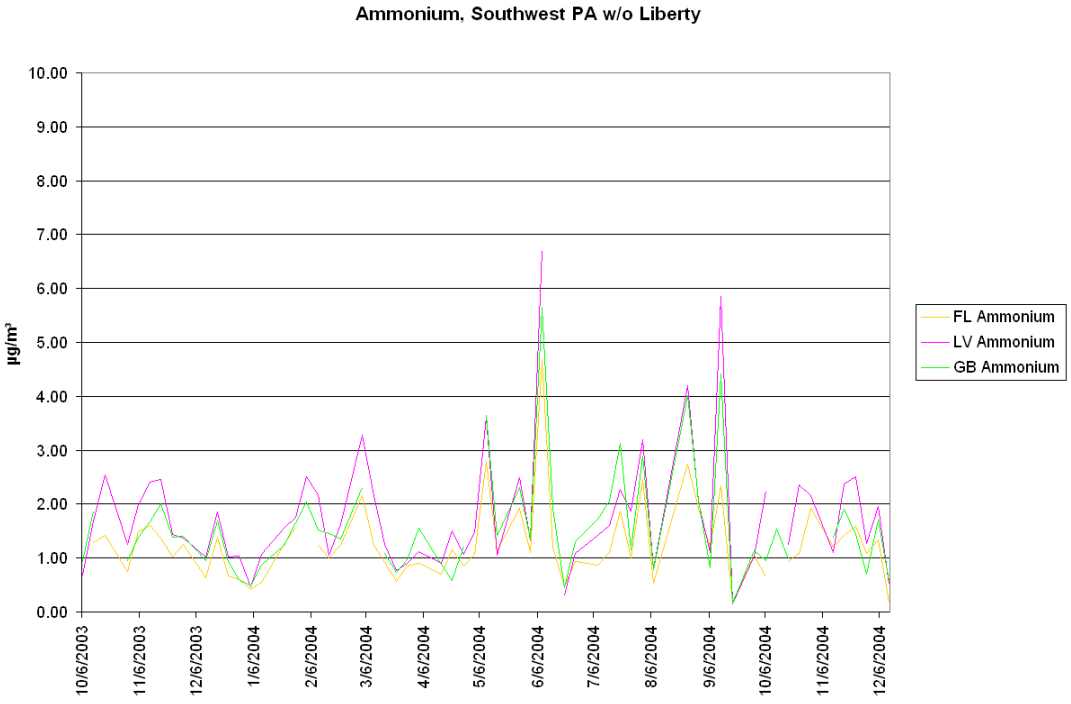
Organic carbon shows similar patterns to total mass in Southwest PA. Liberty is highest overall, with Lawrenceville and Greensburg showing urban influence.



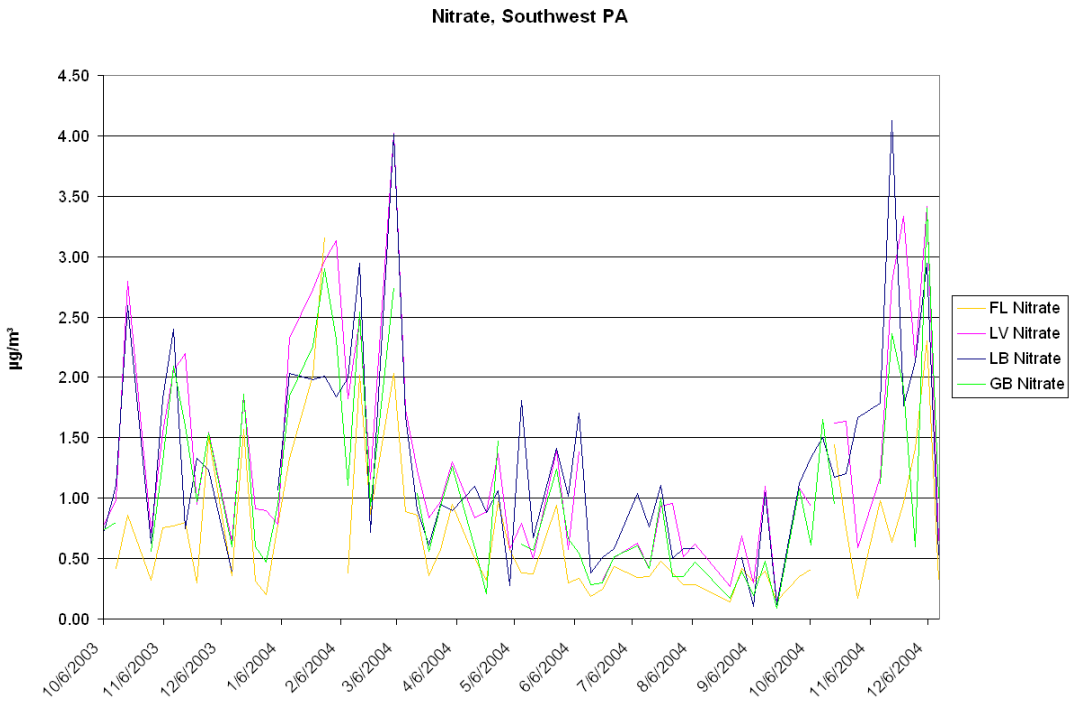


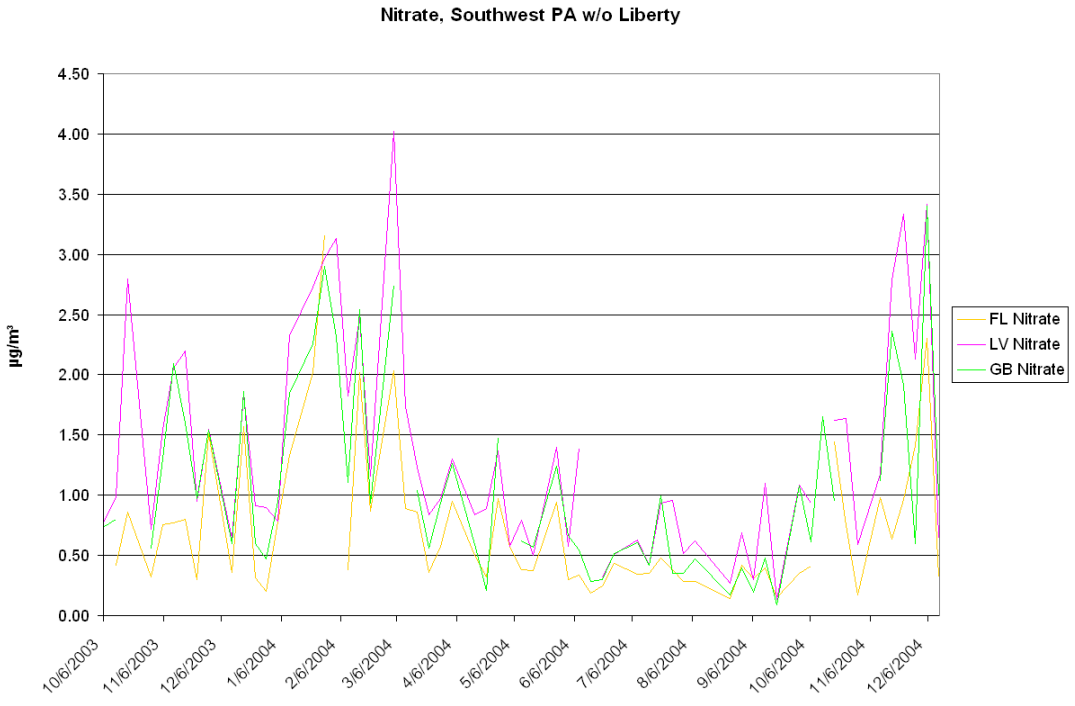
Elemental carbon is similar to organic carbon for Southwest PA. Higher concentrations at Lawrenceville for elemental carbon may be due to mobile source emissions.





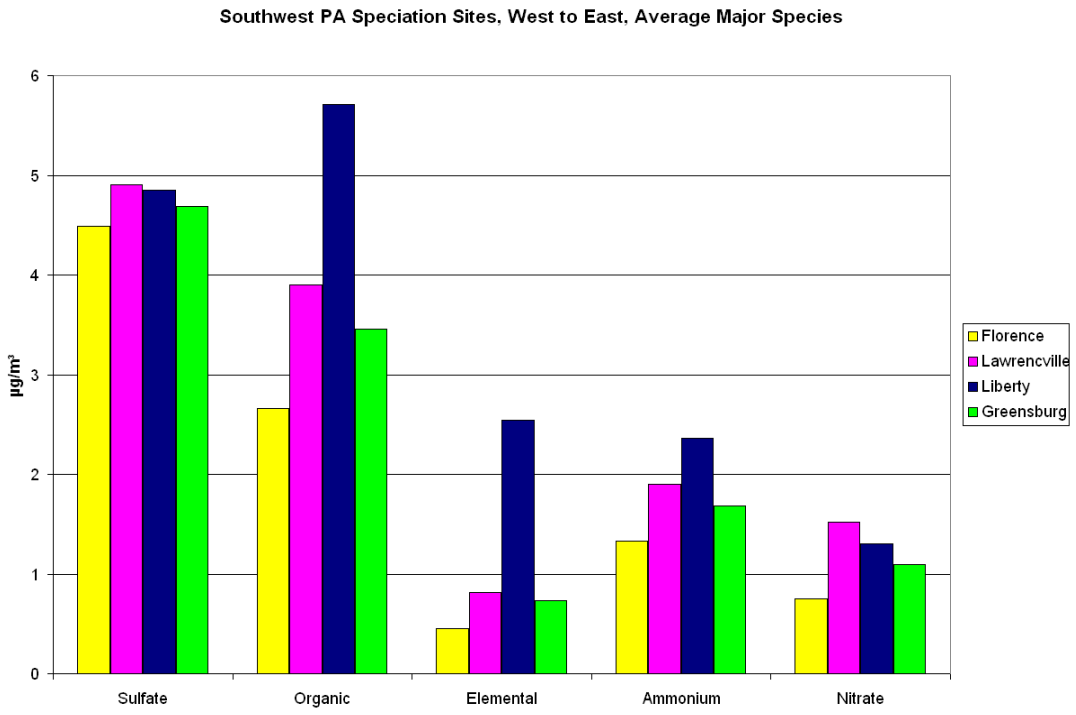
Ammonium is part of the localized excess at Liberty, although to a lesser extent than organic and elemental carbon. Excluding Liberty, ammonium appears to be both regional and urban, as it is highest at Lawrenceville.





Nitrate appears to be regional, like sulfates, but with increased concentrations at Liberty and Lawrenceville. So, urban sources may have an influence on nitrate levels.

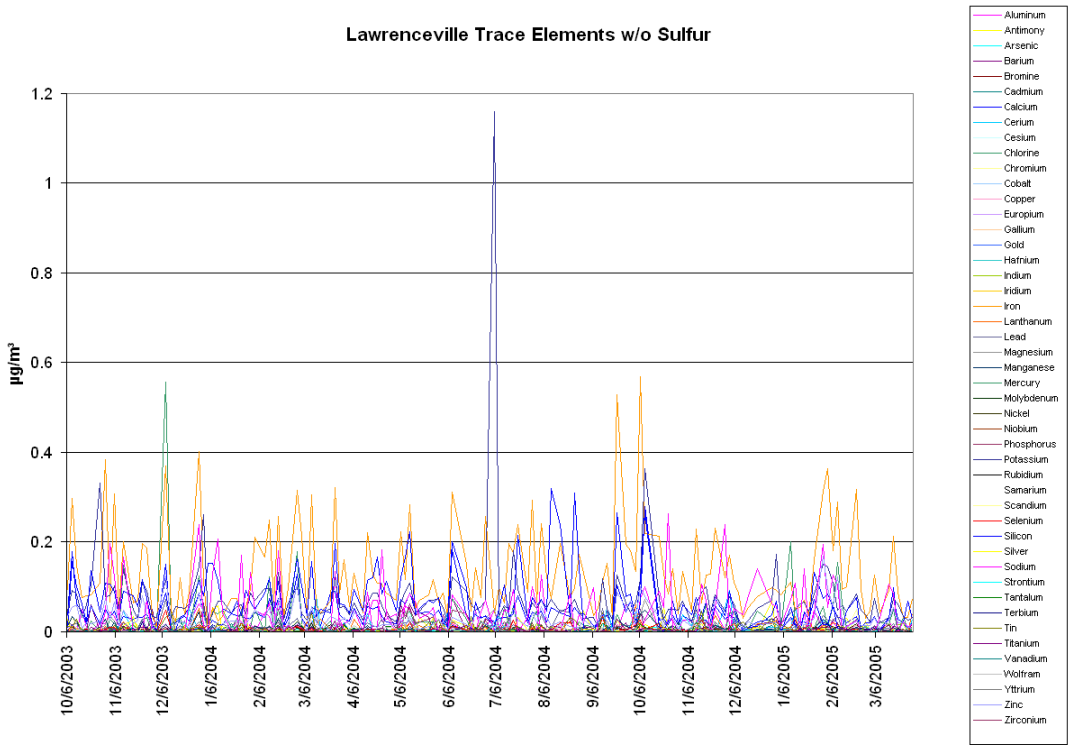
Below are averages for the southwest PA sites by major species, given in column clusters. Left-to-right in the column clusters is analogous to west-to-east geographically.



Florence can be considered the most rural of the sites, as average concentrations are lowest there for all species. A noticeable increase can be seen for all species from Florence to Lawrenceville, and a large increase is seen from Lawrenceville to Liberty for the localized Liberty-excess species. Greensburg is lower than the two Allegheny County sites but higher than Florence for all species, so it is appears to be impacted by urban excess to a limited extent.

6. Trace Elements

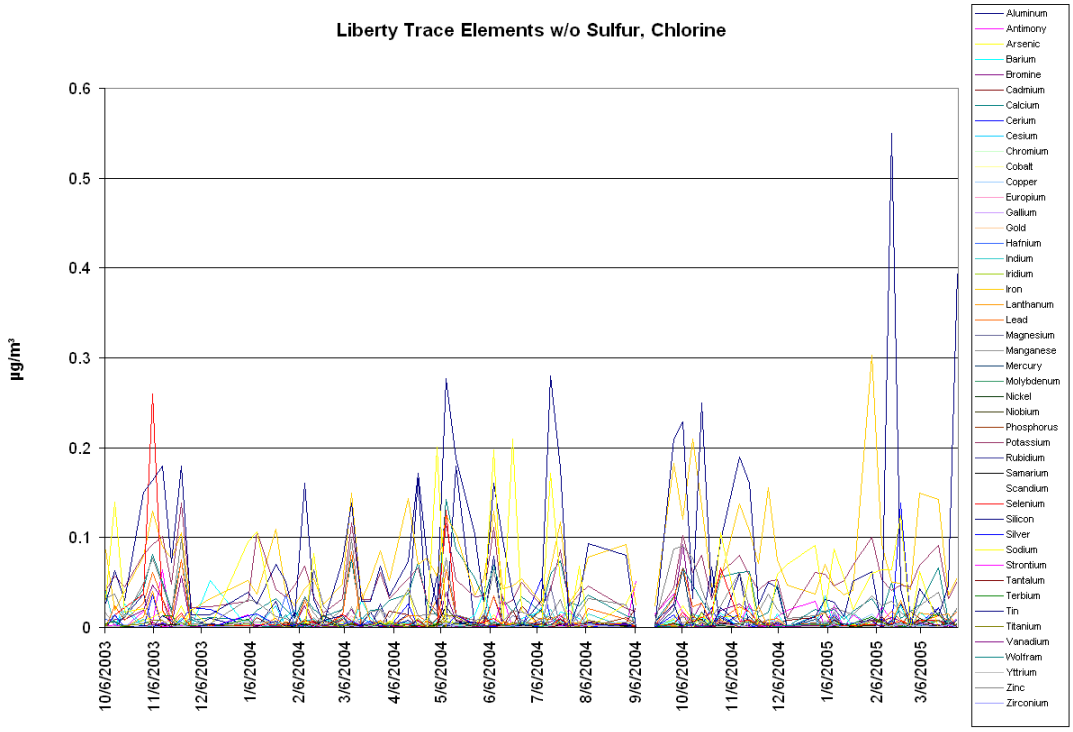
In addition to major species, 48 trace elements are analyzed from the speciation sites. Below are time series plots for Lawrenceville and Liberty trace elements. Sulfur, which is always much higher than the other elements, is excluded from these plots to allow for improved y-axis scaling.



Lawrenceville trace elements are generally dominated by crustal elements such as iron and silicon. The noticeable peak in the center is for potassium (date: 7/5/04) and is likely due to fireworks on the previous day. The Lawrenceville site is 2½ miles downwind of a large fireworks display that takes place annually in the downtown area on the 4th of July.

Small chlorine peaks can occur at Lawrenceville during winter months (example: 12/8/03), most likely due to the presence of road (rock) salt on streets near the monitor.

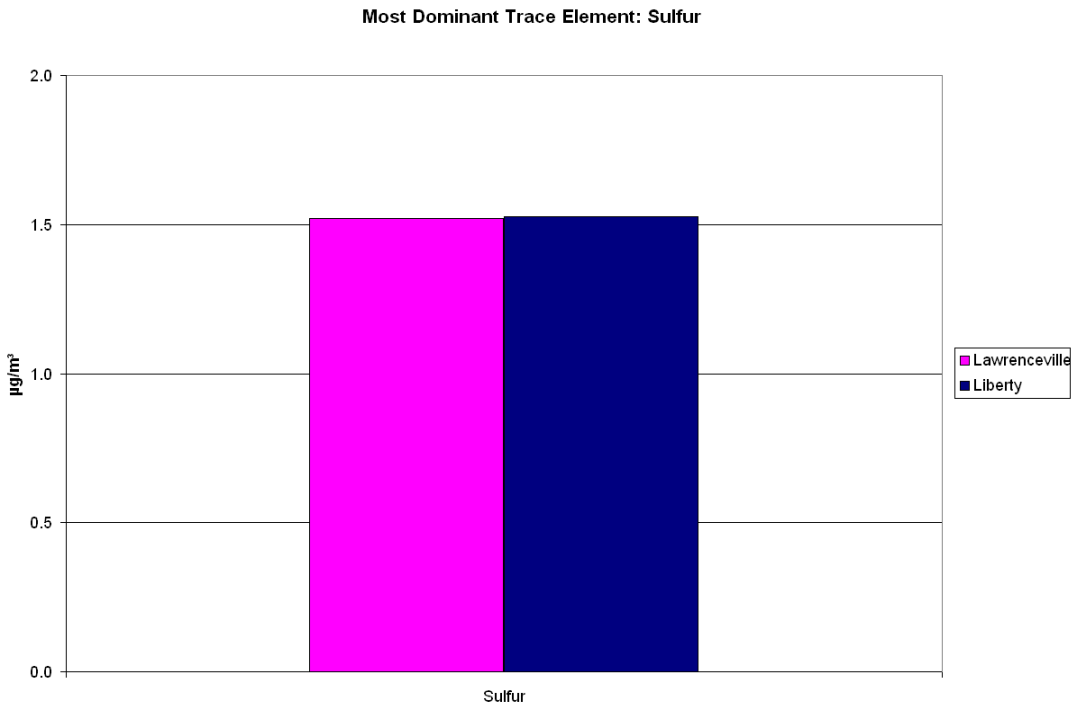
At Liberty, chlorine dominates the trace elements in addition to sulfur and therefore has been excluded from the graph below.



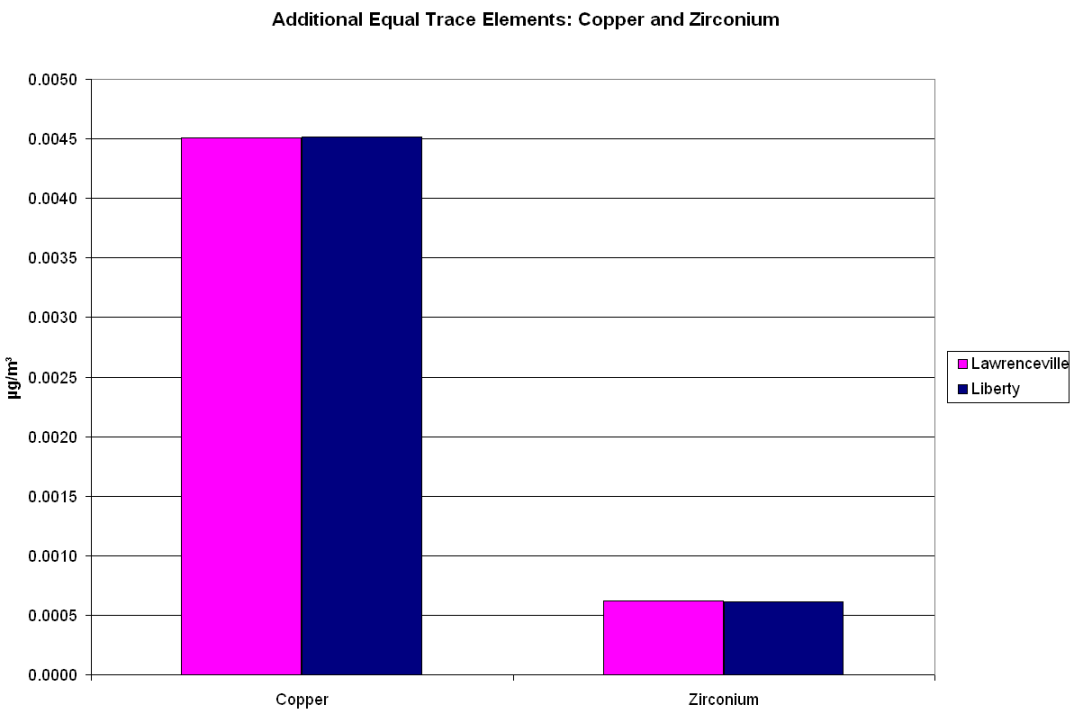
[Note: scale is different than Lawrenceville graph.]

Many elements such as crustal elements are present at Liberty like at Lawrenceville, but elements such as selenium and bromine show peaks that do not coincide with Lawrenceville. Similar to carbon and ammonium, many trace elements are part of the localized excess at Liberty. Comparing differences of each trace element should reveal dominant elements at each site.

Below are average column graphs for each trace element.

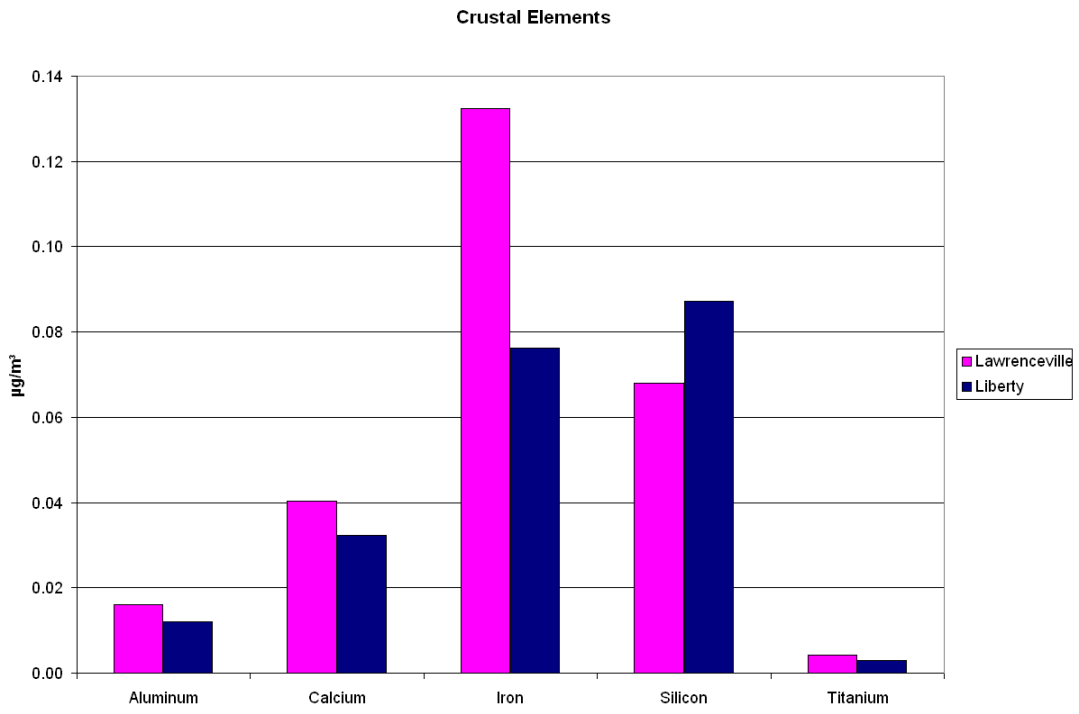


Sulfur is the most dominant element and is nearly equal for the sites. This follows the pattern of sulfate, which is also nearly equal on an average basis.

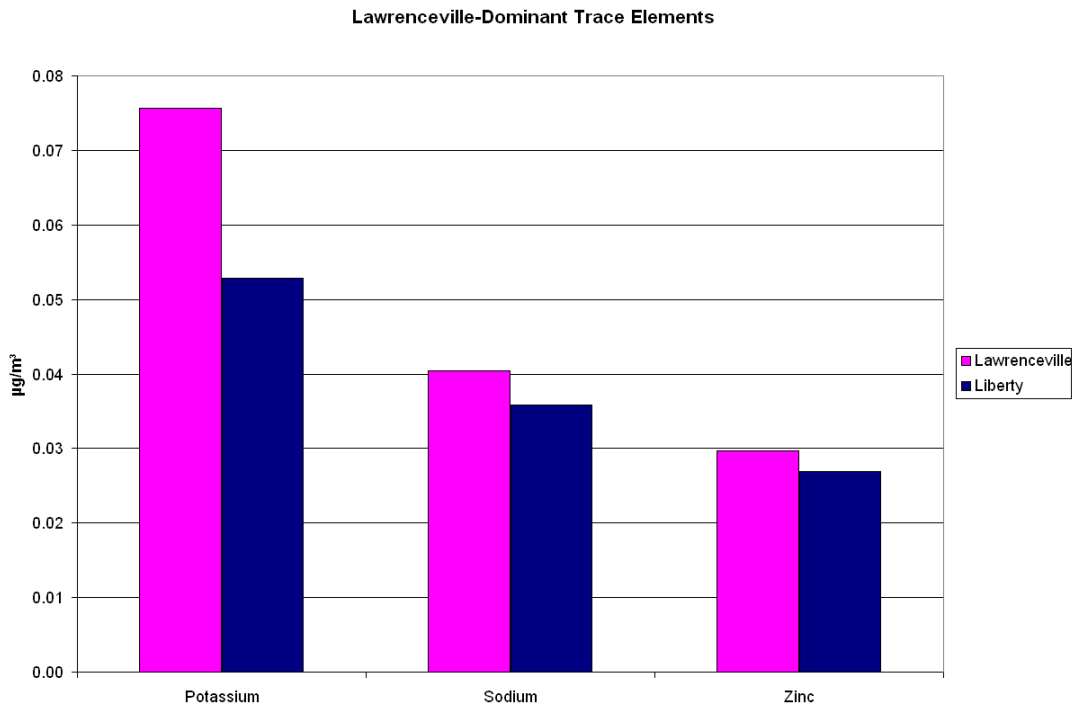


Although not as prevalent as sulfur, copper and zirconium are also nearly equal. Hence, these elements can be classified as regional-only trace elements.

The crustal elements in the chart below are constituents of fine soil. Collectively as a weighted sum, they compose the crustal component.



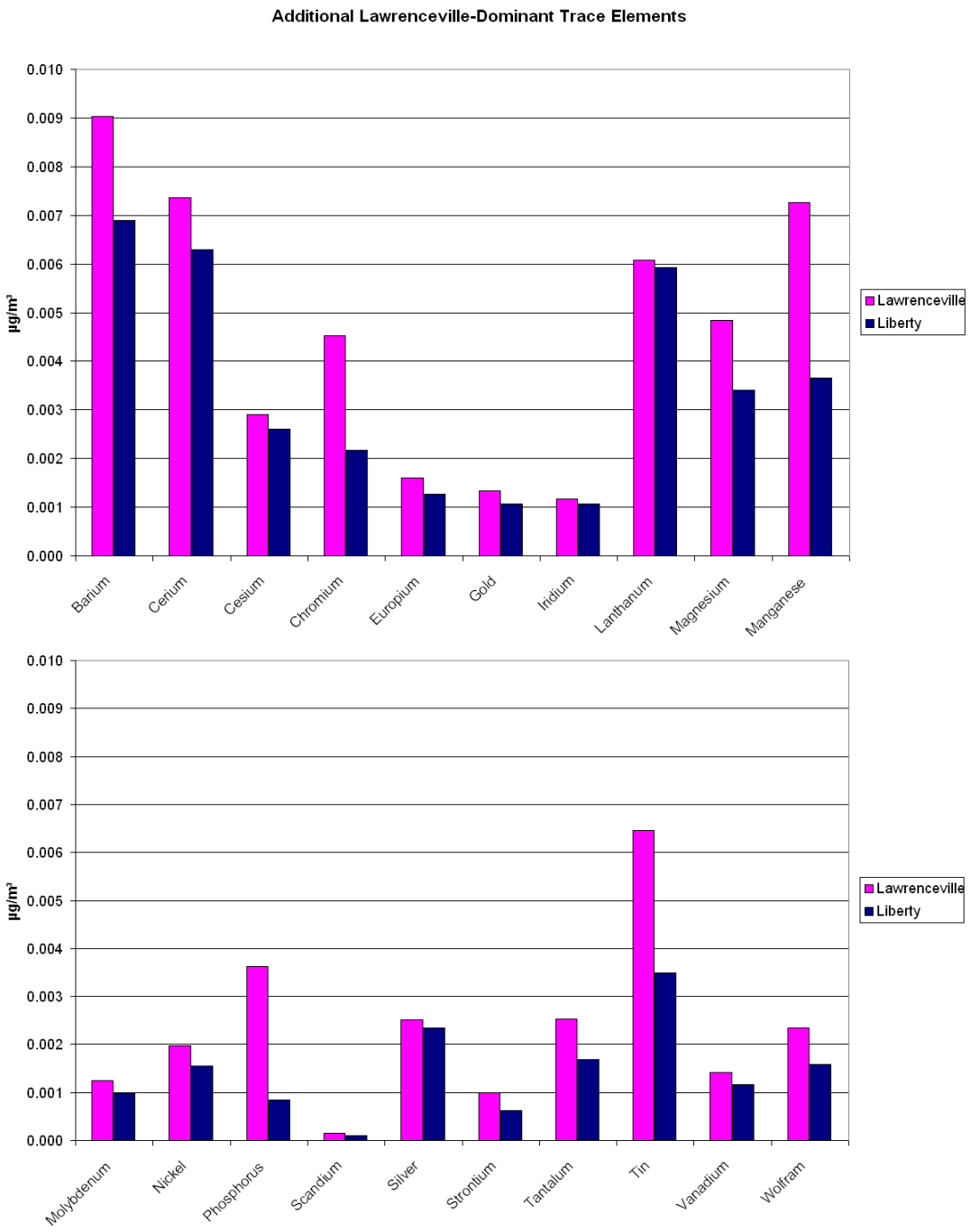
The crustal component is higher at Lawrenceville, and this holds true for each crustal element except silicon. As an individual element, silicon could be classified as Liberty-dominant. For this report, silicon will be grouped with the crustal component as a whole.



Potassium, sodium, and zinc are the most common Lawrenceville-dominant non-crustal trace elements. [Potassium and sodium are also measured as ions using the same analytical method by which the major species ammonium, nitrate, and sulfate are measured, but since the ionic concentrations of potassium and sodium are minute compared to the major ionic species, their trace element concentrations are given in this report.]

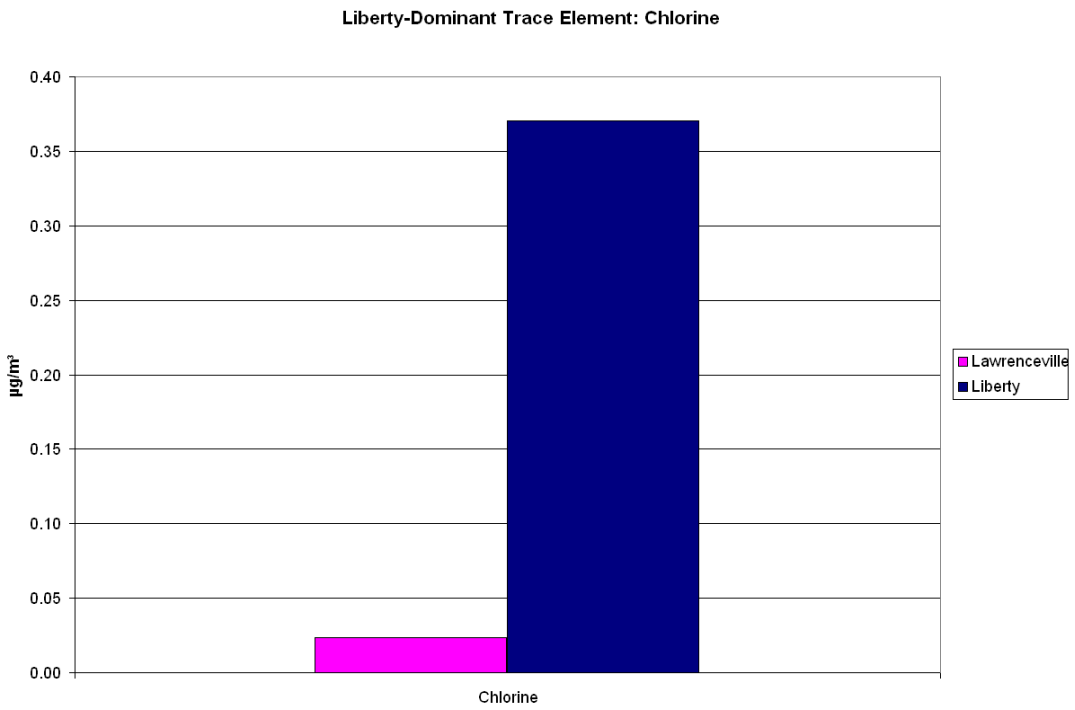
Potassium is a major ingredient in fireworks, and 4th of July fireworks near downtown Pittsburgh are the likely cause of the larger concentration of potassium at Lawrenceville. The higher sodium concentration at Lawrenceville may be due to airborne road salt from more heavily traveled streets than at Liberty. Possible sources of additional zinc at Lawrenceville may be urban sources.

Additional Lawrenceville-dominant trace elements are shown in the charts to follow.

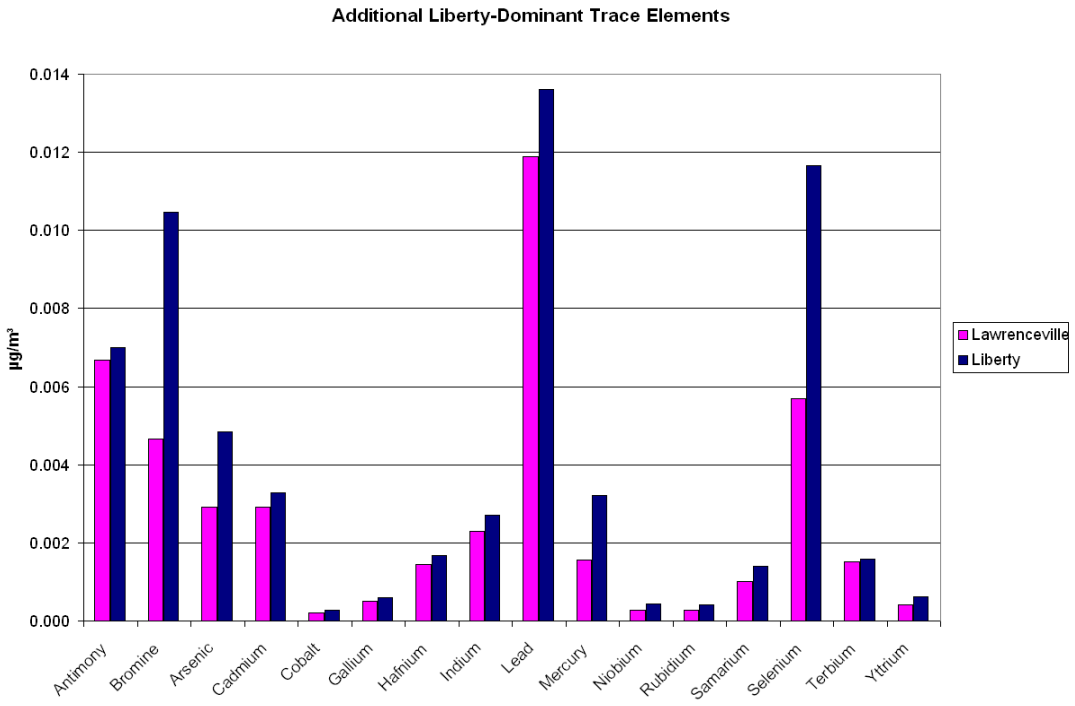


These Lawrenceville-dominant trace elements are likely urban and/or regional in nature. Barium, chromium, manganese, phosphorus, and tin show the most noticeable differences for these elements.

Liberty-dominant trace elements are given below.

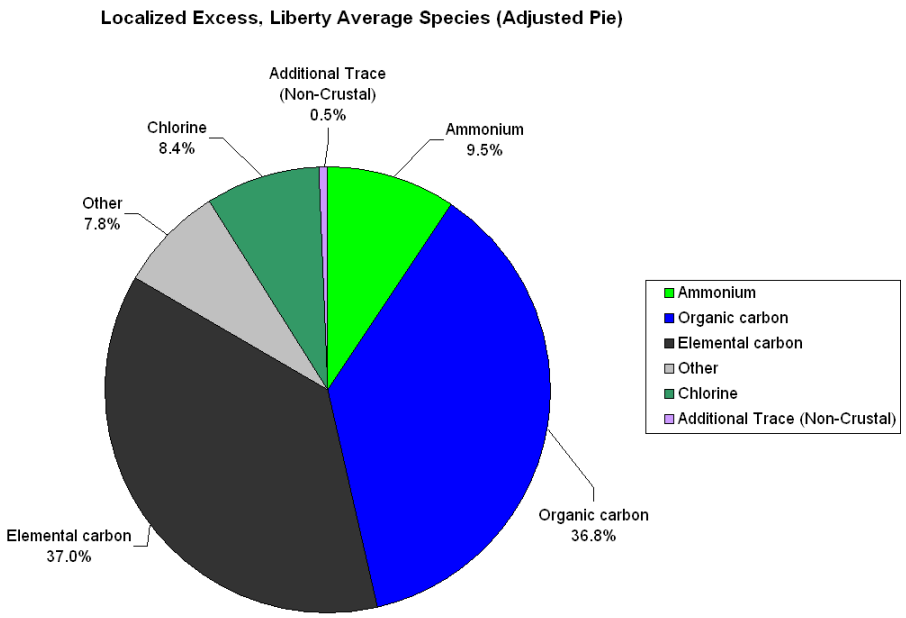


Chlorine is the most common Liberty-dominant trace element. While chlorine is a component of road salt, the amount of excess chlorine is unlikely due to airborne road salt alone.



Bromine is a halogen, like chlorine, although it is present at much smaller concentrations than chlorine. Arsenic, lead, mercury, and selenium are also noticeably higher trace elements at Liberty than at Lawrenceville, indicating possible local influences.

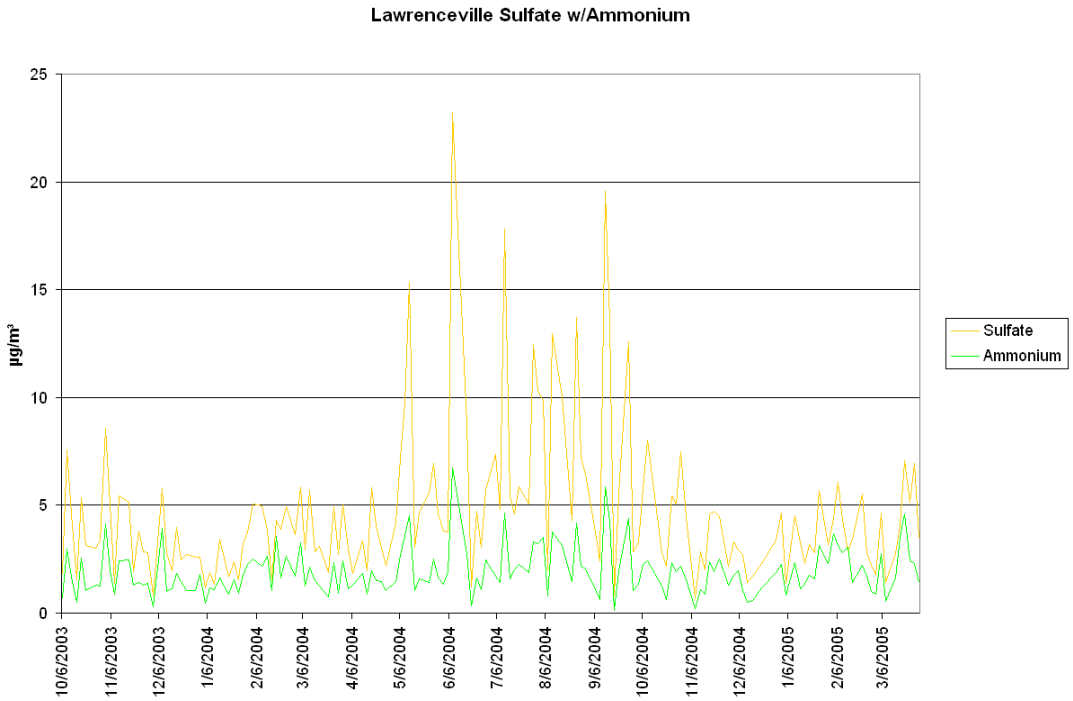
Taking the Liberty-dominant trace elements into account, the Liberty localized excess pie chart can be adjusted to include chlorine and additional non-crustal trace elements in place of a portion of the "other" component.

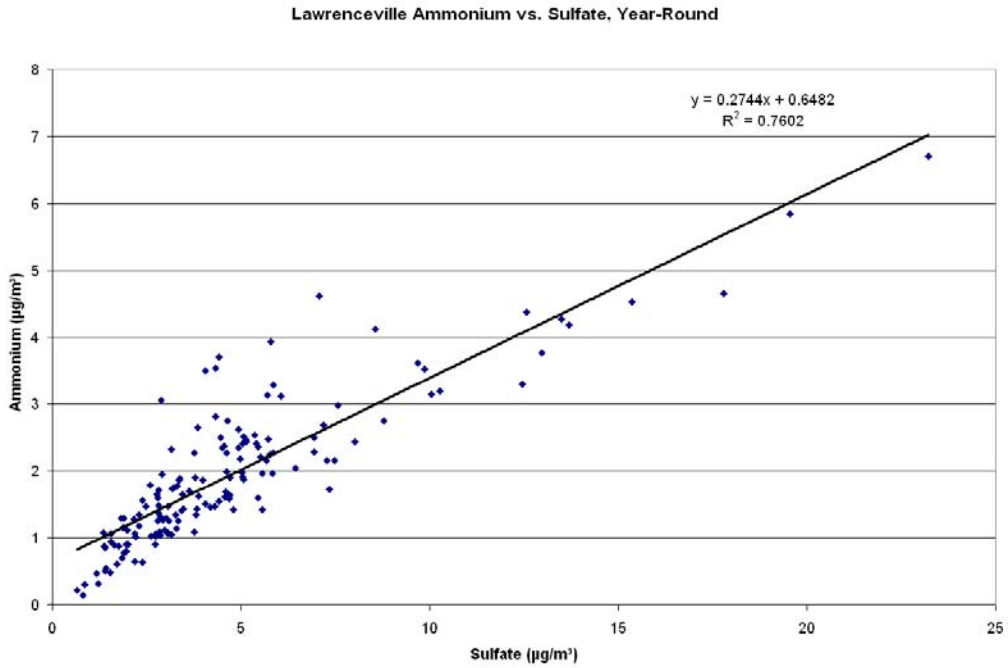


This adjusted localized excess pie chart represents the speciation of the Liberty excess, creating a $PM_{2.5}$ fingerprint for the Liberty monitor. Without the excess $PM_{2.5}$ components shown in the chart, Liberty would match Lawrenceville and be similar to other Eastern U.S. metropolitan sites.

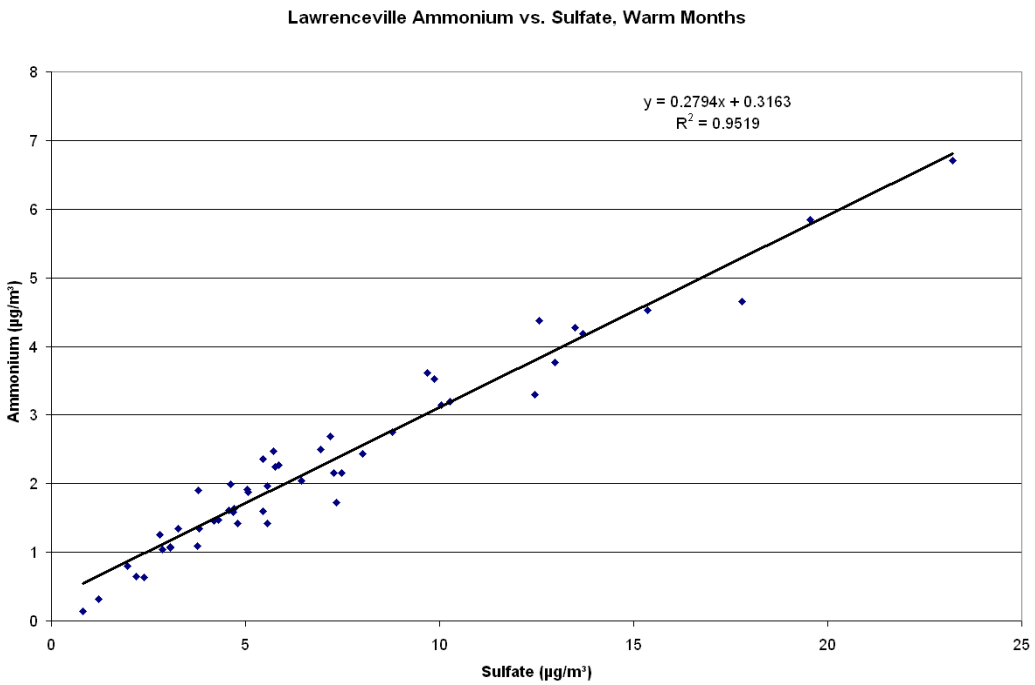
7. Species Correlations

Sulfate and nitrate generally exist as ammonium salts in $PM_{2.5}$. Hence, correlations can be drawn between ammonium, nitrate, and sulfate, varying by season.

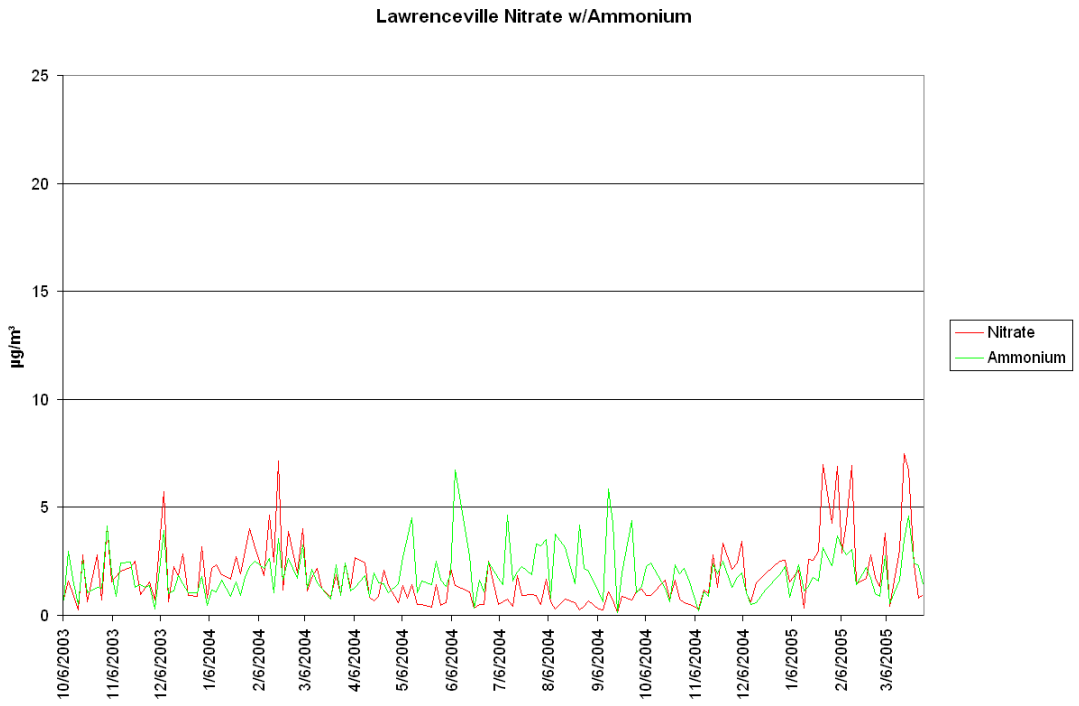




The time series and regression plots for Lawrenceville sulfate and ammonium show a moderate correlation year-round. During warm months when sulfate is most prevalent, the correlation between ammonium and sulfate increases, but the slope of the regression line is similar to that of the year-round basis. A Lawrenceville ammonium and sulfate regression plot for May through October is given below.



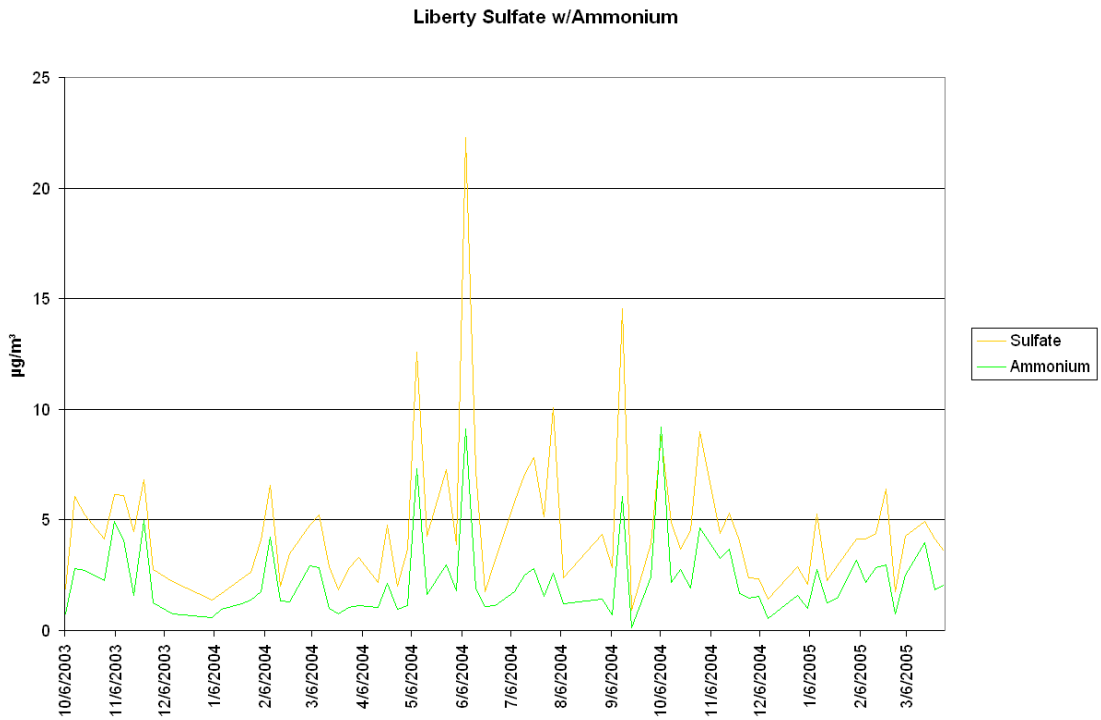
Sulfate commonly exists in two forms: ammonium sulfate and ammonium bisulfate. The slopes of the regression lines for Lawrenceville (0.274 – 0.279) are between that of a perfect ammonium sulfate regression (0.375) and a perfect ammonium bisulfate regression (0.188). So, a mixture of sulfate/bisulfate appears to be evident for Lawrenceville on a year-round basis.

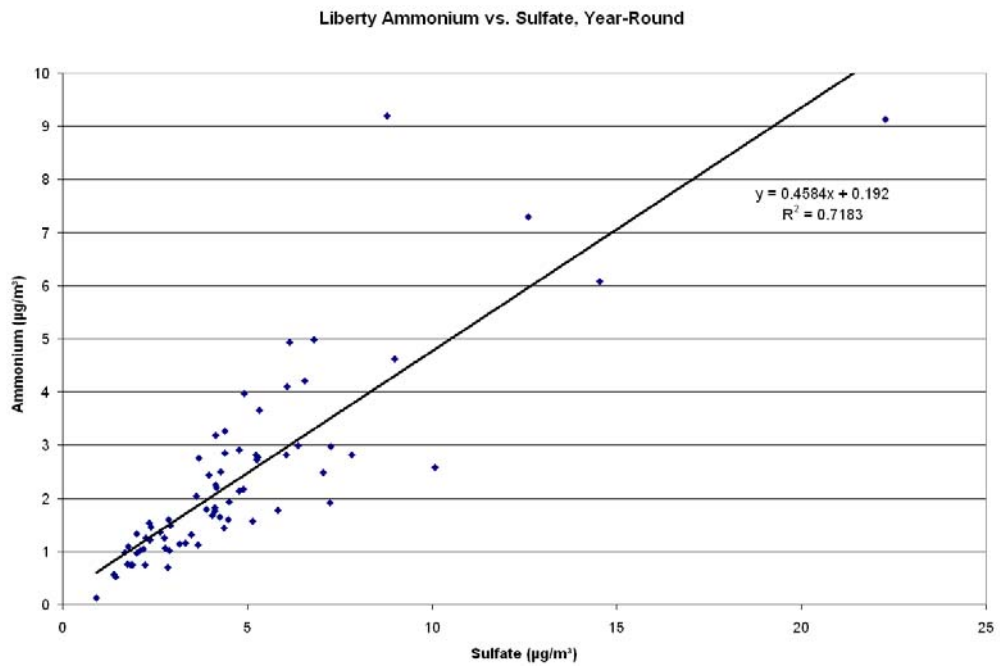


The times series plot for nitrate and ammonium shows the best correlation during winter when nitrates are more prevalent. The worst correlation occurs during warmer months when sulfates are more dominant.

These trends for ammonium sulfate and ammonium nitrate salts are regional and are common to most speciation sites in the Eastern U.S.

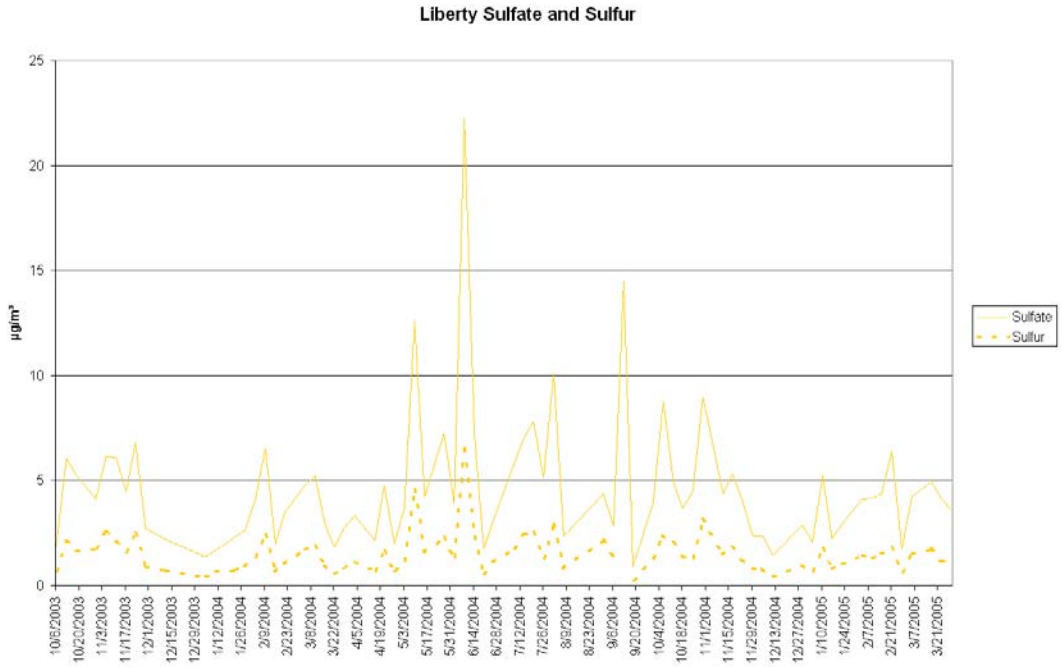
Trends for sulfate and ammonium at Liberty are given in the charts below.

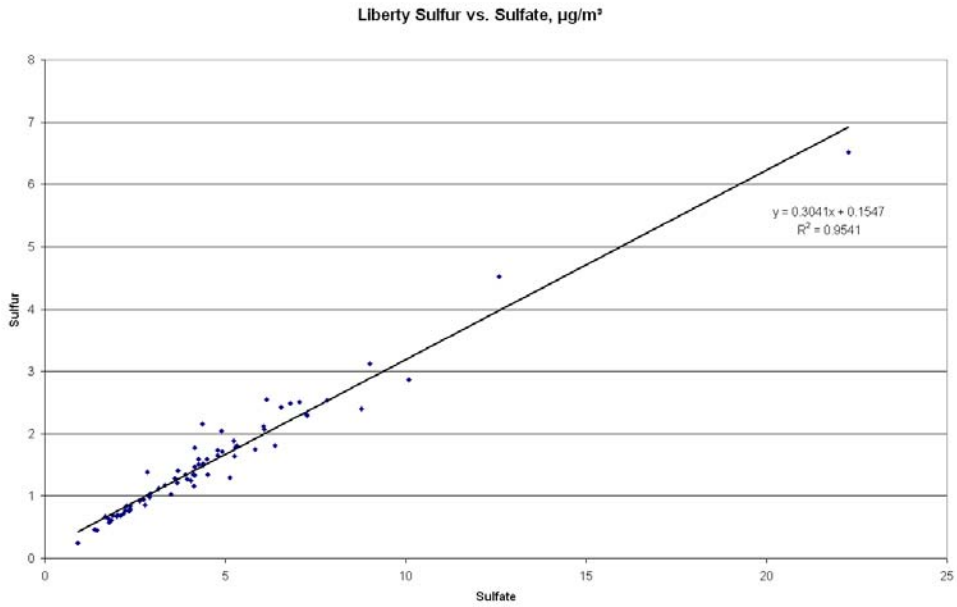




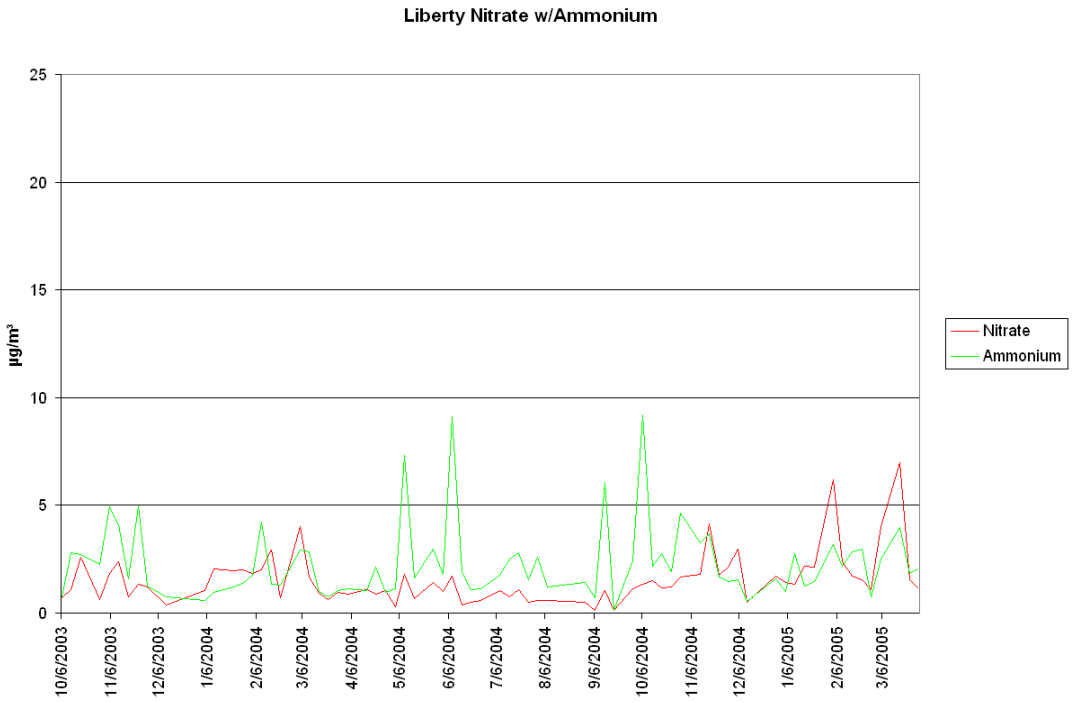
Liberty shows less of a year-round correlation for ammonium and sulfate than Lawrenceville, as the R^2 (0.718) value is lower for the Liberty regression. Also, the slope is considerably greater for the Liberty regression line (0.458), due to the higher concentrations of ammonium at Liberty.

To examine if sulfur is present as an element in any form other than sulfate at Liberty, time series and regression plots for Liberty sulfur and sulfate are shown below.



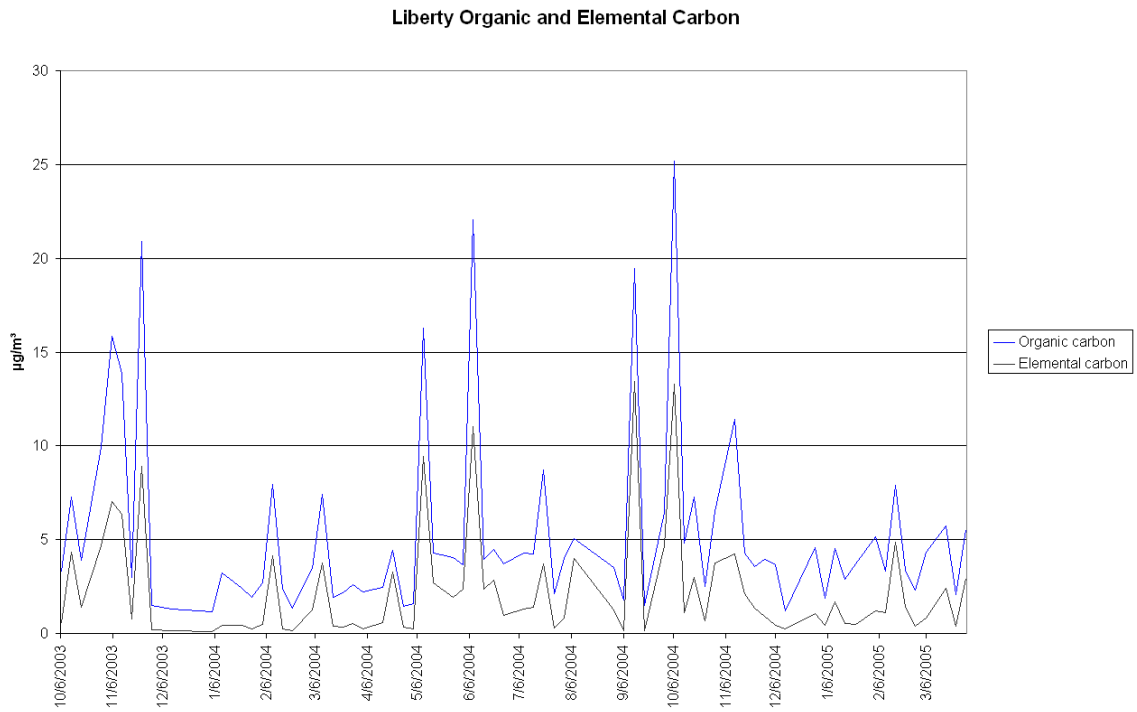


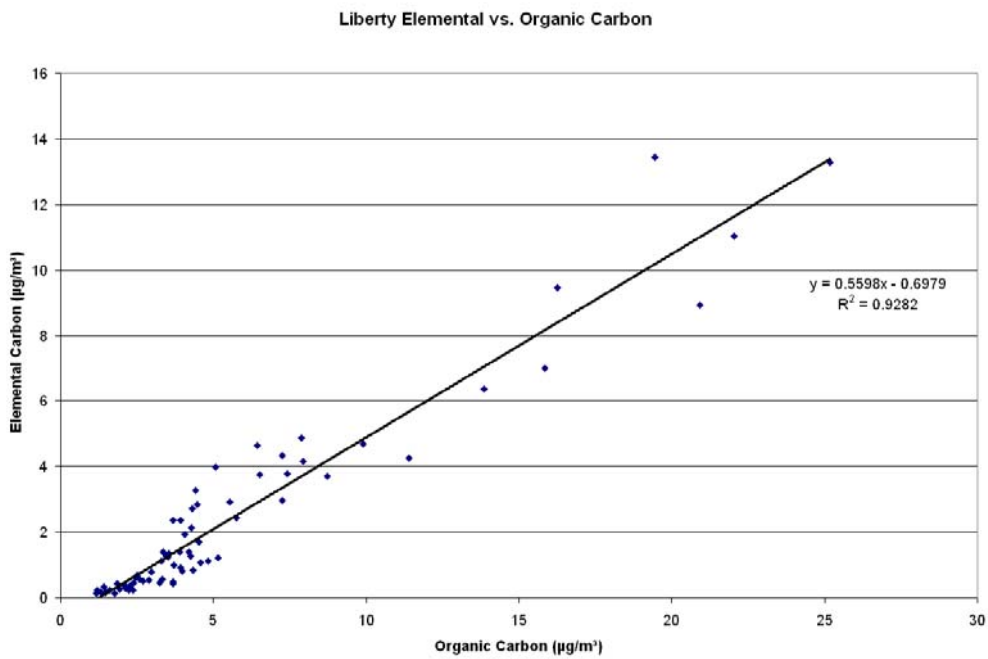
Liberty sulfur and sulfate show an excellent correlation (0.954), so it can be assumed that very few additional forms of sulfur are present.

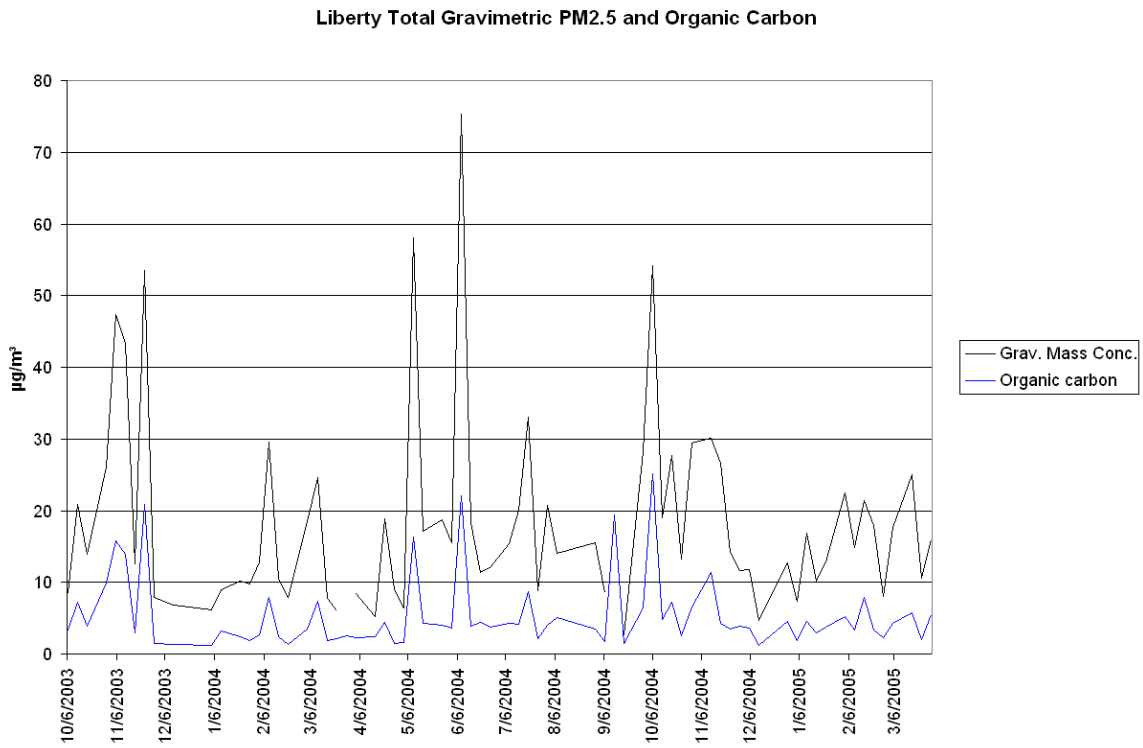


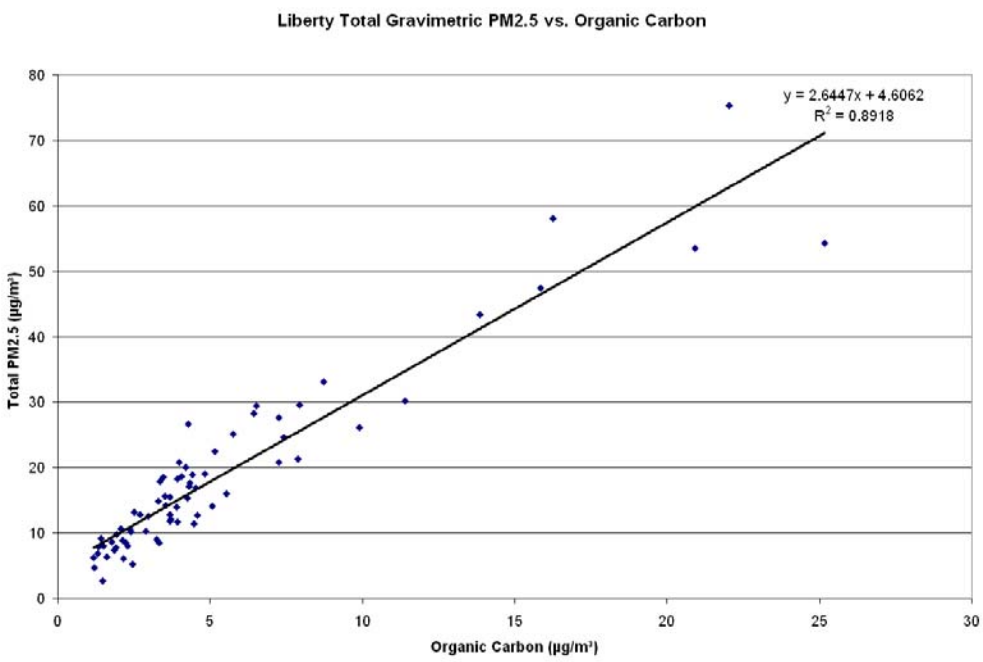
Liberty behaves similarly to Lawrenceville for nitrate and ammonium, but with higher overall concentrations for ammonium at Liberty. Ammonium is likely present in other forms than just ammonium sulfate and nitrate salts at Liberty.

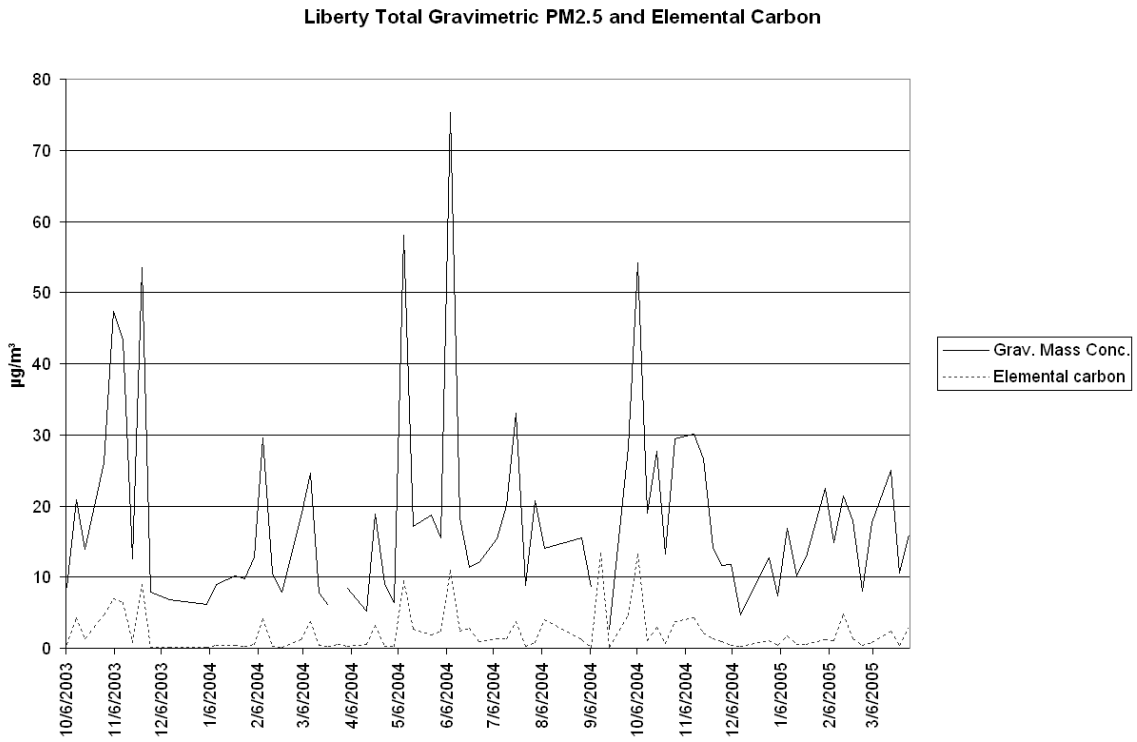
One of the best correlations between species at either site is for organic carbon and elemental carbon at Liberty (R^2 = 0.928). Organic and elemental carbons also show strong correlations with total mass concentration at Liberty. Plots and correlations are shown below for organic carbon, elemental carbon, and total $PM_{2.5}$.

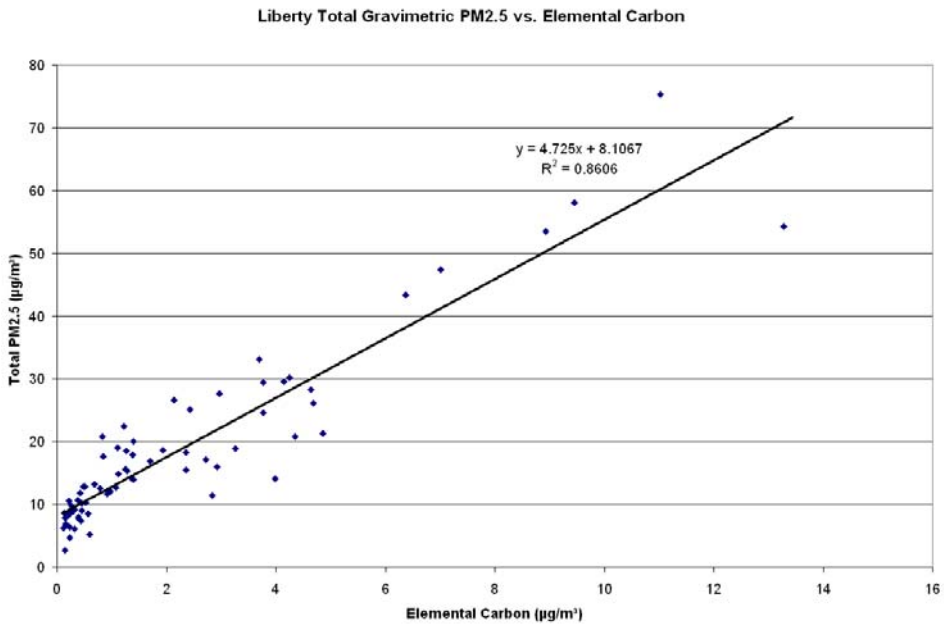




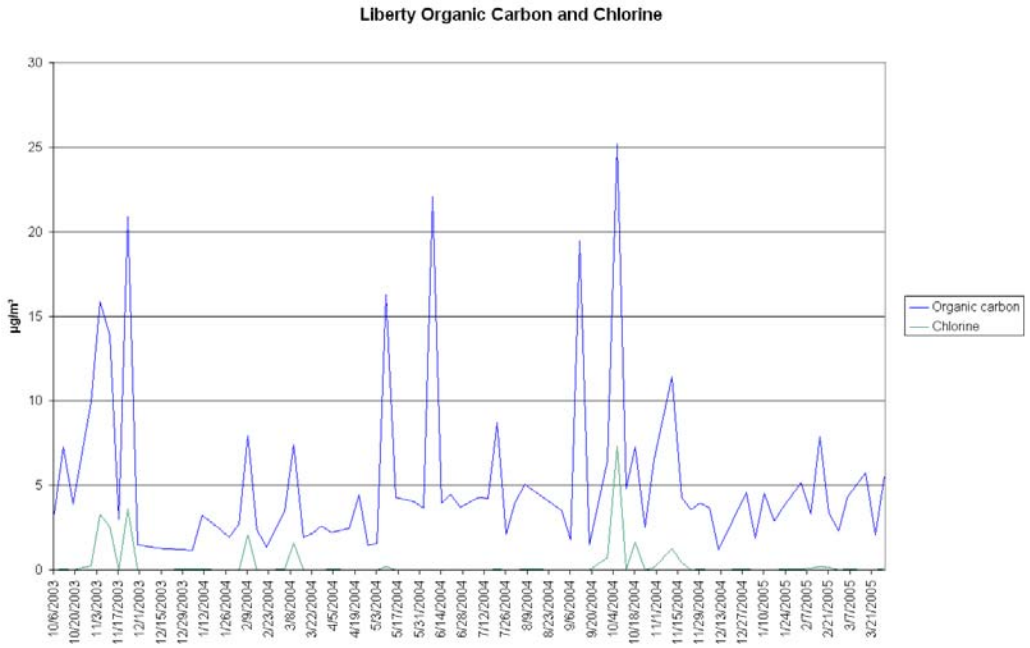

Liberty Total Gravimetric PM2.5 and Organic Carbon
µg/m³
80
70
60
50
40
30
20
10
0
10/6/2003
11/6/2003
12/6/2003
1/6/2004
2/6/2004
3/6/2004
4/6/2004
5/6/2004
6/6/2004
7/6/2004
8/6/2004
9/6/2004
10/6/2004
11/6/2004
12/6/2004
1/6/2005
2/6/2005
3/6/2005
Grav. Mass Conc.
Organic carbon

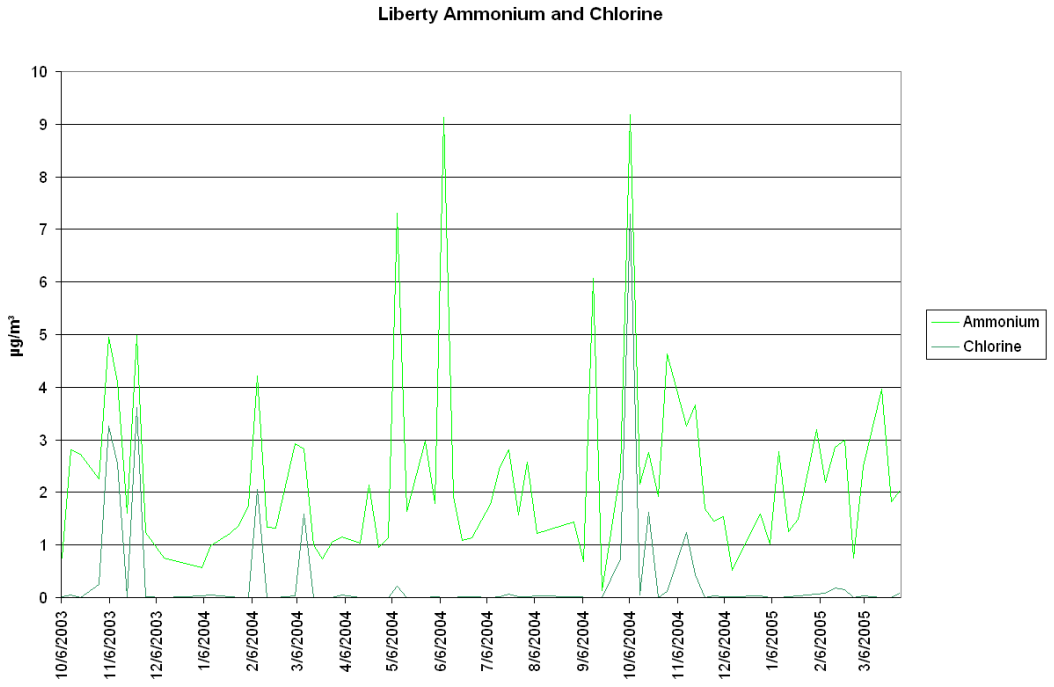

Liberty Total Gravimetric PM2.5 vs. Organic Carbon
y = 2.6447x + 4.6062
R² = 0.8918
Total PM2.5 (µg/m³)
Organic Carbon (µg/m³)
0
5
10
15
20
25
30
40
50
60
70
80


Liberty Total Gravimetric PM2.5 and Elemental Carbon
µg/m³
80
70
60
50
40
30
20
10
0
10/6/2003
11/6/2003
12/6/2003
1/6/2004
2/6/2004
3/6/2004
4/6/2004
5/6/2004
6/6/2004
7/6/2004
8/6/2004
9/6/2004
10/6/2004
11/6/2004
12/6/2004
1/6/2005
2/6/2005
3/6/2005
Grav. Mass Conc.
Elemental carbon


Liberty Total Gravimetric PM2.5 vs. Elemental Carbon
y = 4.725x + 8.1067
R² = 0.8606
Total PM2.5 (µg/m³)
Elemental Carbon (µg/m³)
0
10
20
30
40
50
60
70
80
0
2
4
6
8
10
12
14
16

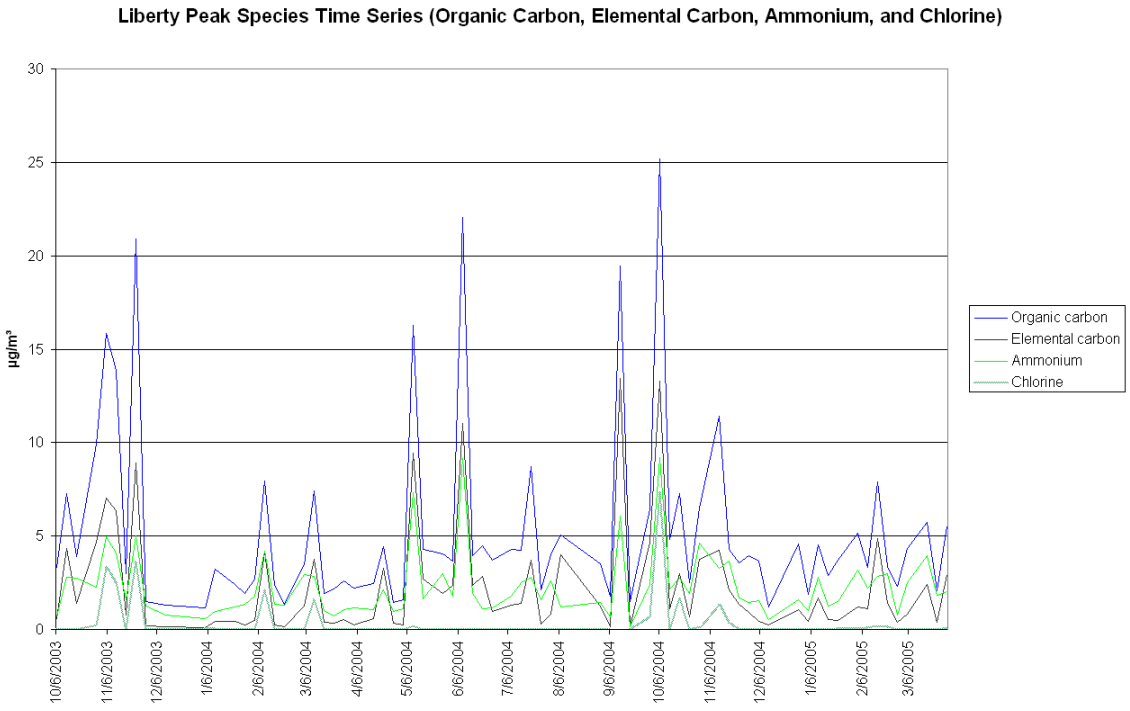
Additionally, chlorine can track organic carbon and ammonium in winter. Time series plots for chlorine with organic carbon and ammonium are given below.



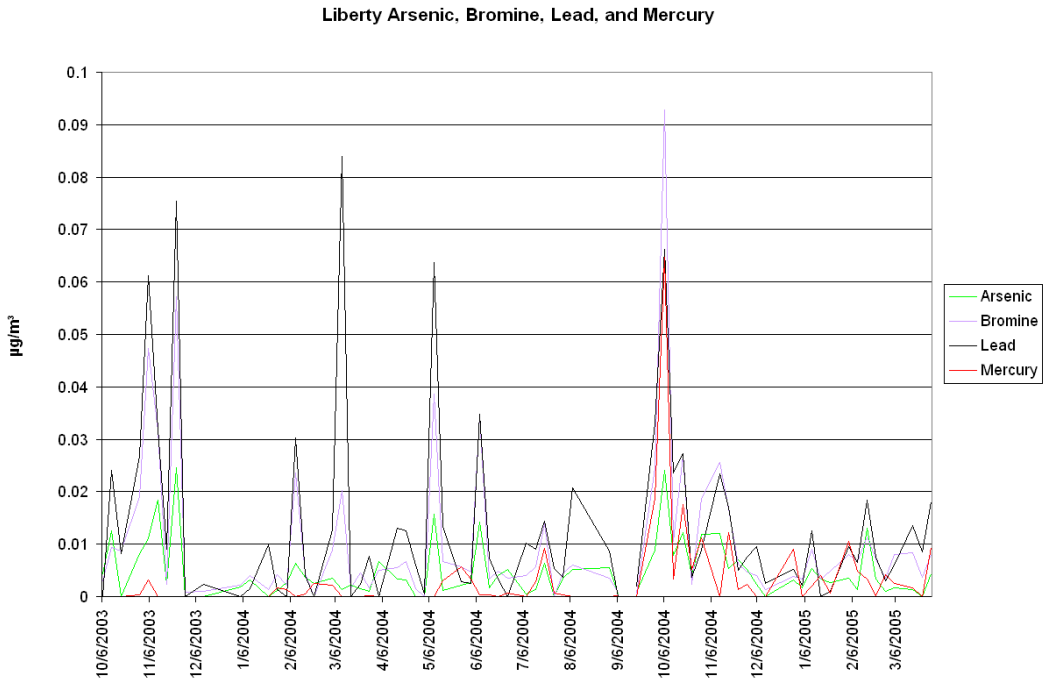


These plots suggest that chlorinated organic compounds and/or ammonium chloride salt may be a component of Liberty $PM_{2.5}$ during cold months.

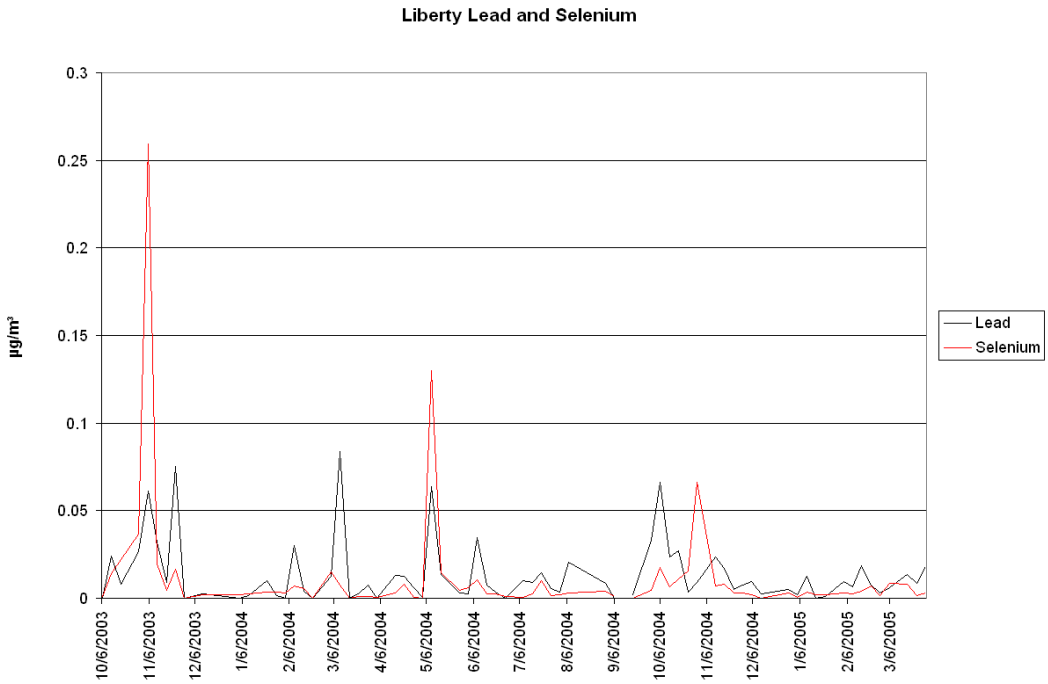
Ammonium can also track the carbons on some days, specifically on peak days. Carbons, ammonium, and chlorine are shown on the following plot as "peak species." These species correlate well on peak days, but not necessarily year-round.



On a smaller scale, some Liberty-dominant trace elements also appear to correlate with one another. Liberty arsenic, bromine, lead, and mercury are shown in the time series plot below.

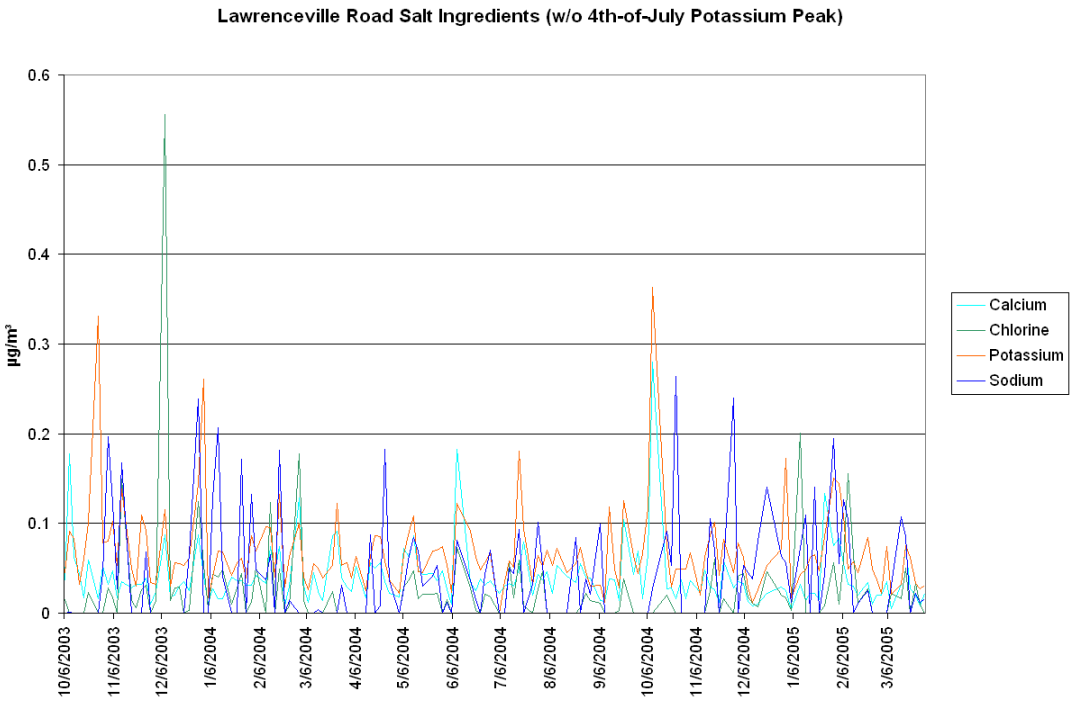


Lead may also correlate with selenium sometimes at Liberty, as shown in the plot below.



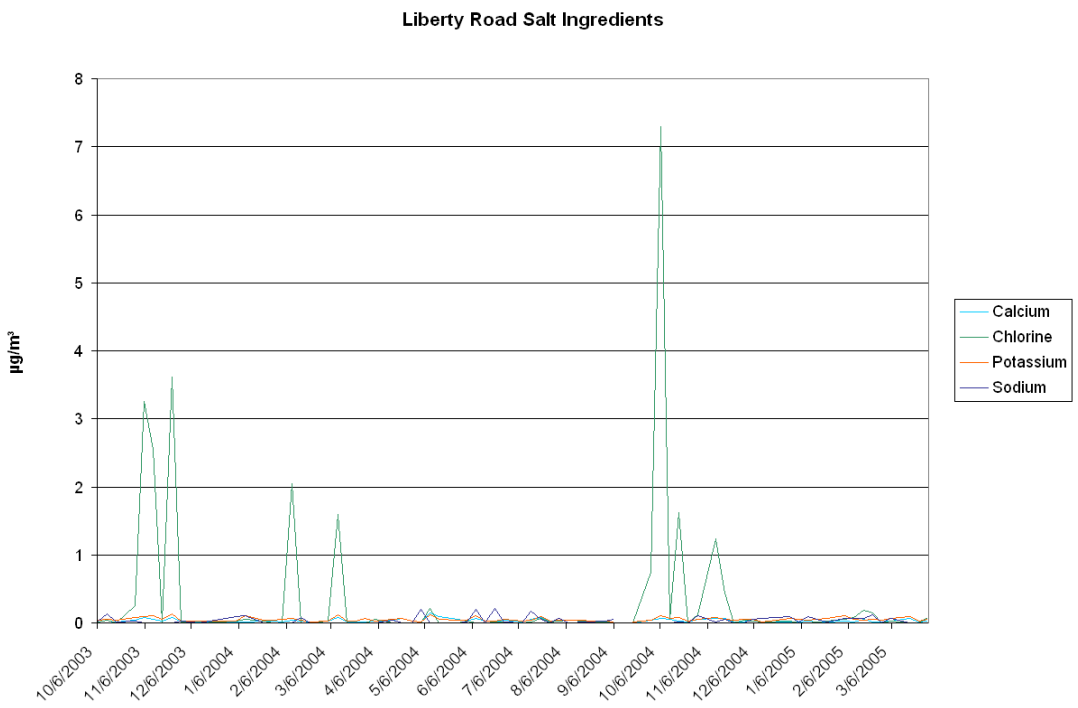
Correlations of possible road (rock) salt trace elements at each site are shown next. Different forms of road (rock) salt can be used as ice-melting material. Sodium chloride is the cheapest, most common form and is the same chemical formula as table salt. Potassium chloride and calcium chloride can also be used as ice-melters, although calcium chloride is the most expensive salt and is generally used only on walkways.

Mass ratios of the cation portion of each salt (sodium, potassium, calcium) are roughly 1:1 to the anionic portion (chloride). Plots of these elements should therefore show similar concentrations to one another if airborne road salt is a source of $PM_{2.5}$.



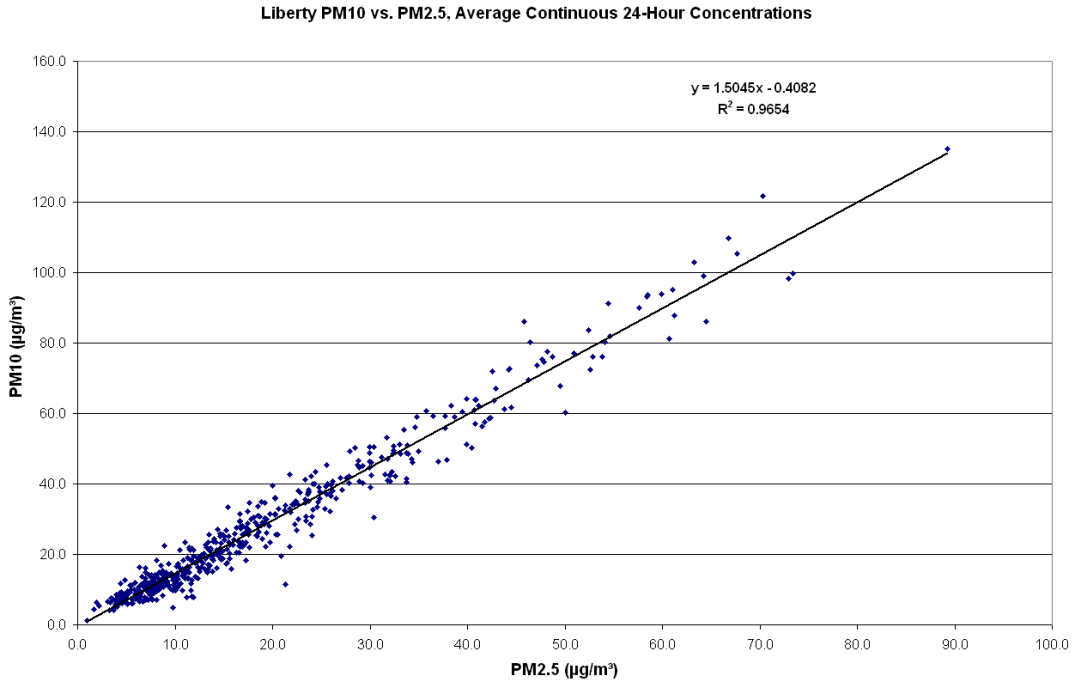
Road salt ingredients show similar concentration levels at Lawrenceville, signifying that one or more of the possible cations may be present with chloride as road salt. The highest chlorine peak (date: 12/8/03) may represent a combination of all three types of salt.

Road salt ingredients at Liberty are shown in the plot below.



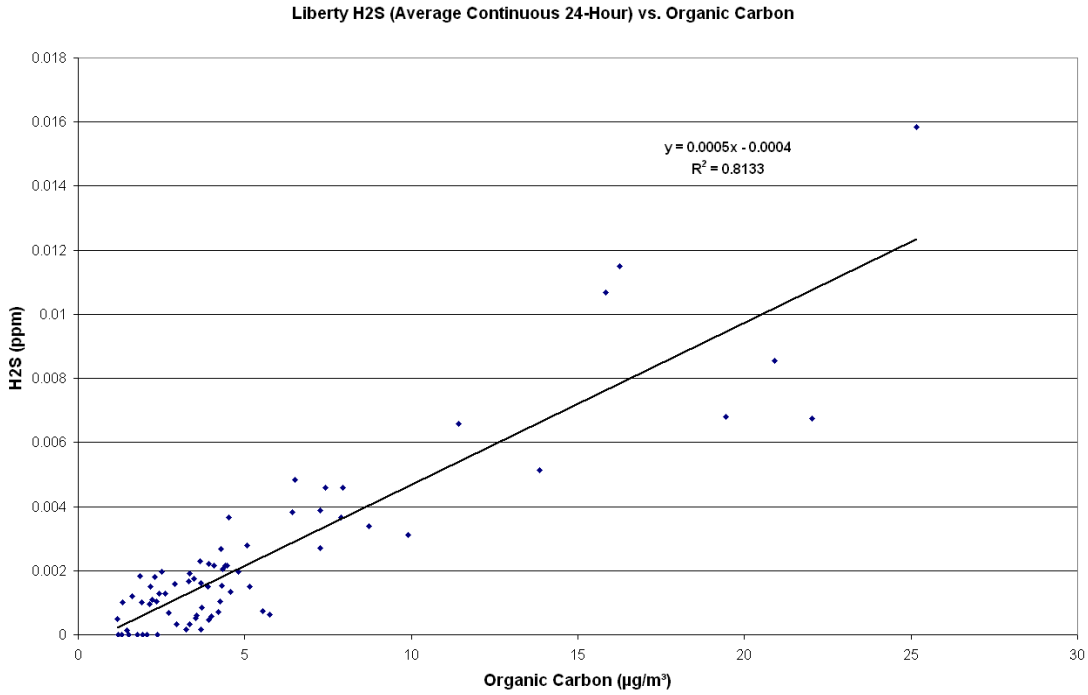
At Liberty, road salt may be present as $PM_{2.5}$, but only a small portion of the total chlorine concentrations can be attributed to road salt. The cation concentrations are much lower than chlorine on the peak days. Therefore, the source of chlorine is not entirely from road salt at Liberty.

The Liberty site is collocated with several continuous monitors. Liberty continuous PM_{10} and $PM_{2.5}$ are plotted below.

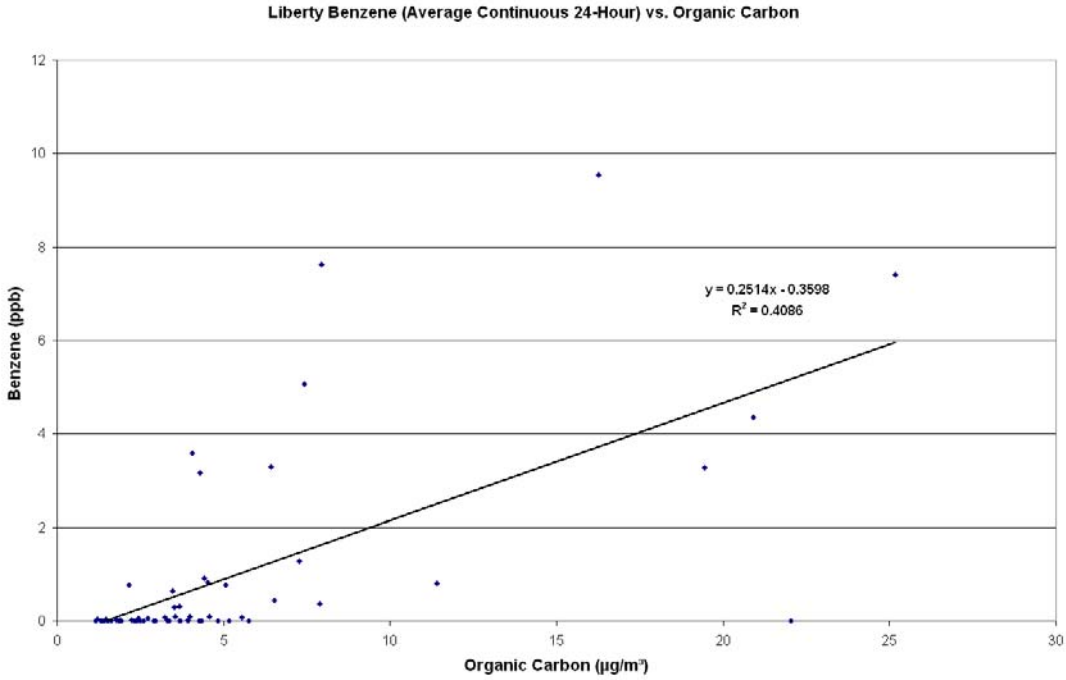


The Liberty PM_{10} and $PM_{2.5}$ continuous monitors correlate extremely well, with $PM_{2.5}$ constituting two-thirds of the PM_{10} concentration.

Regression plots for continuous gaseous pollutants and organic carbon (the most dominant $PM_{2.5}$ species) are given below for Liberty.



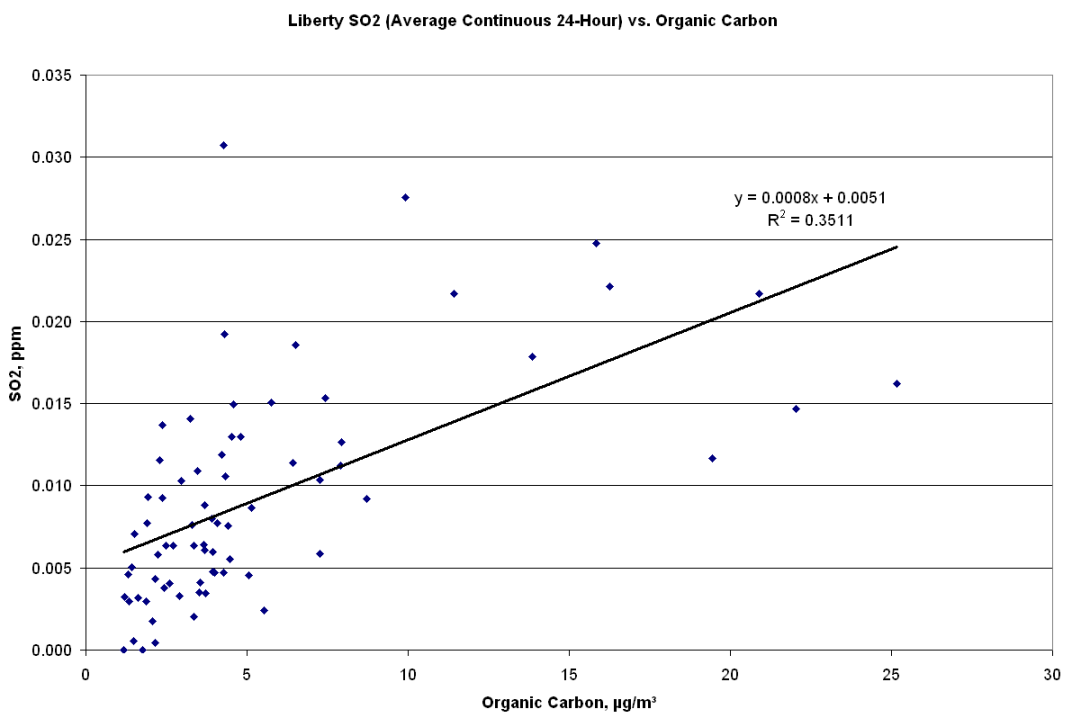
Hydrogen sulfide (H_2S) 24-hour averages appear to correlate well with organic carbon at Liberty. Liberty benzene and organic carbon are shown next.



Benzene itself is an organic carbon, but benzene 24-hour averages do not correlate well with organic carbon at Liberty. This is due to the different phases in which benzene and organic carbon are being sampled. The benzene monitor measures continuous gas-phase benzene, while the speciation monitor measures solid-phase organic carbon deposited over a 24-hour period. Gaseous benzene appears to behave differently than particulate-phase organic carbon on a 24-hour basis.

[Benzene appears to follow organic carbon better on an hourly level. Hourly plots for continuous monitors are shown later in this report in the Peak Days section.]

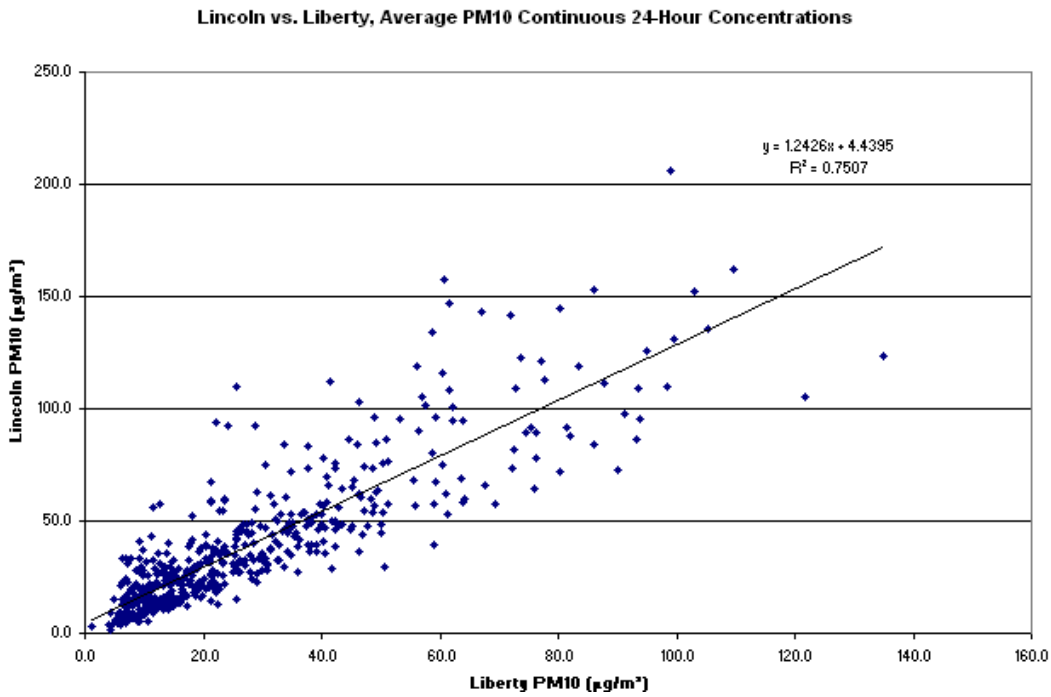
Liberty sulfur dioxide (SO_2) and organic carbon are shown below.

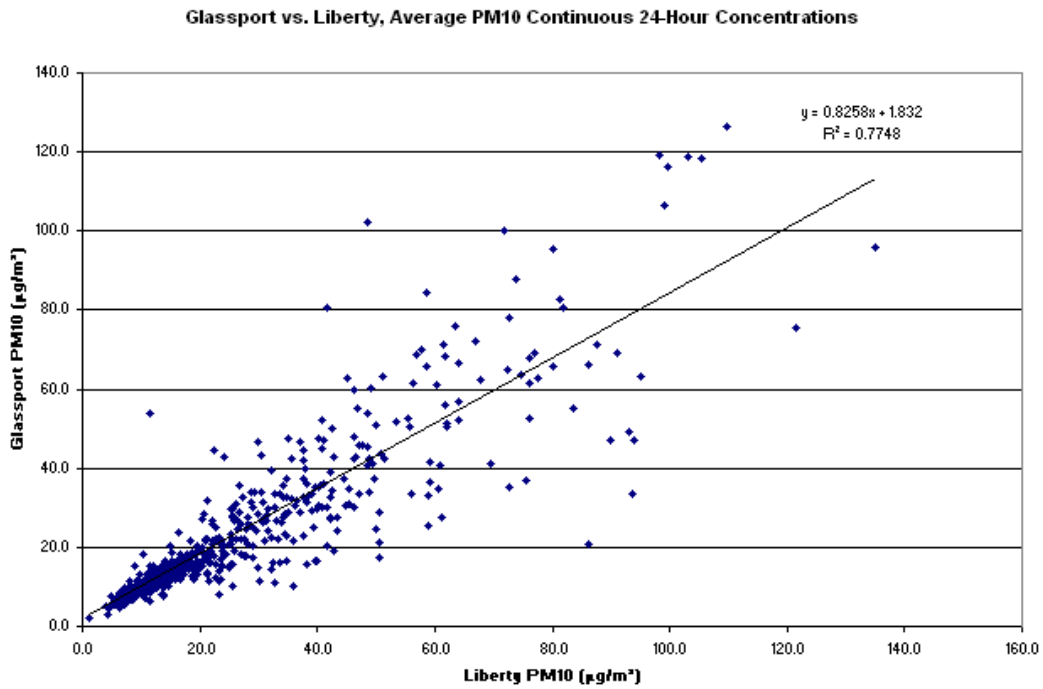


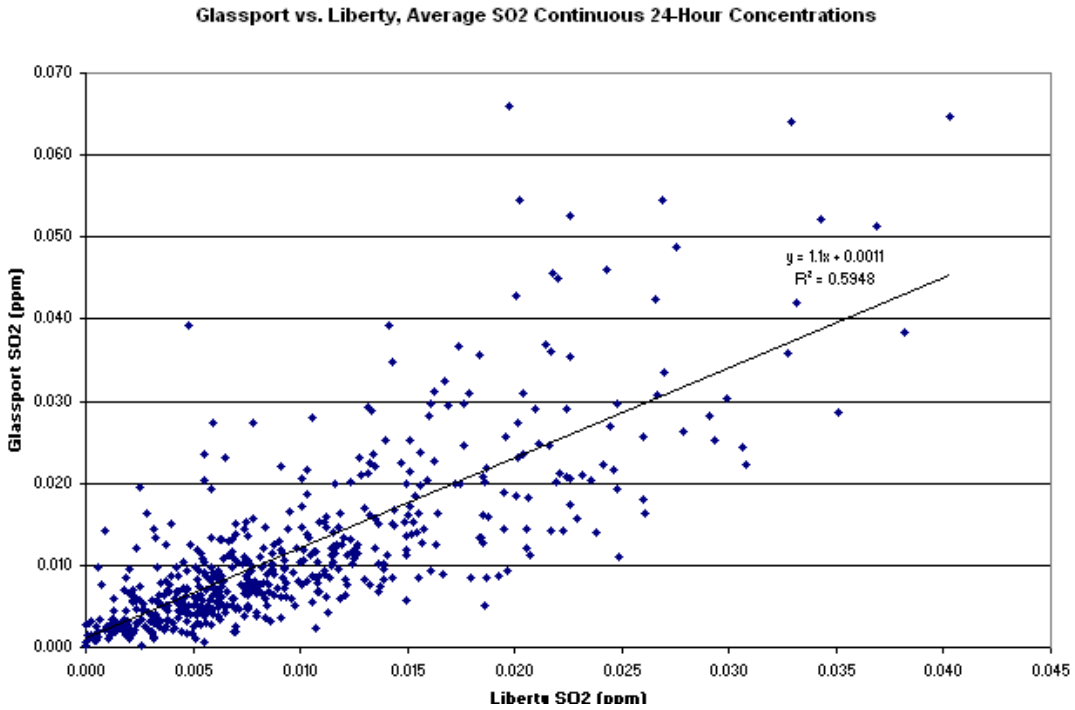
Sulfur dioxide, like benzene, does not correlate well with organic carbon on a 24-hour basis.

8. Site Correlations

Liberty is located near two additional sites with PM_{10} and SO_2 monitors: Lincoln and Glassport. Regression plots for these sites with Liberty are given below.





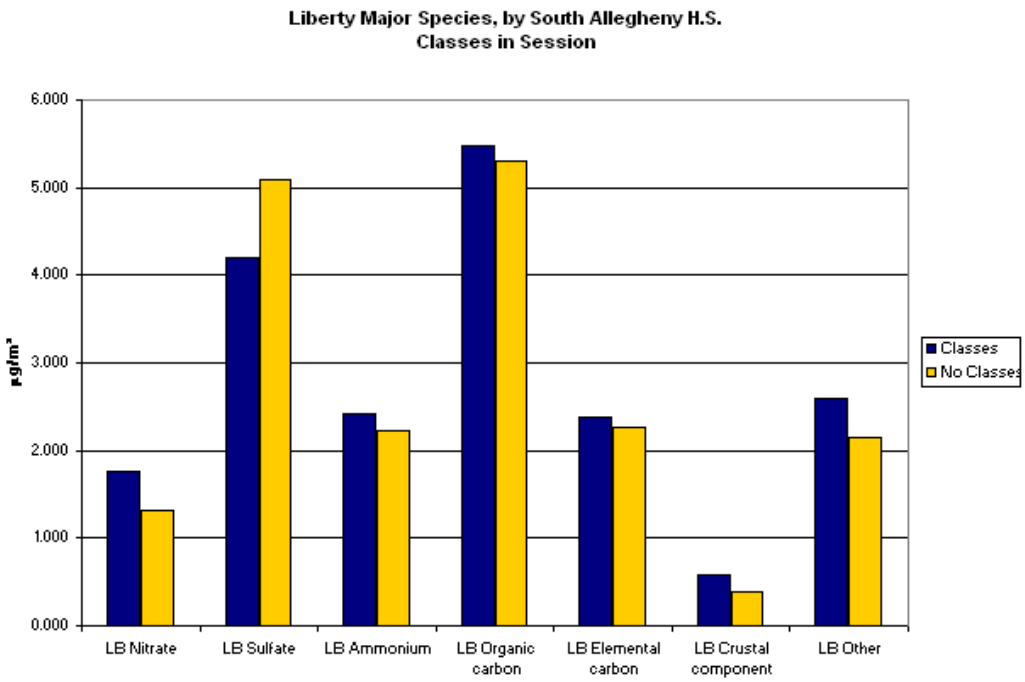


These plots reveal that Liberty can correlate moderately with Glassport and Lincoln for PM_{10} on a 24-hour average basis. Liberty is more site-specific for SO_2, however, as Glassport and Liberty do not correlate well.

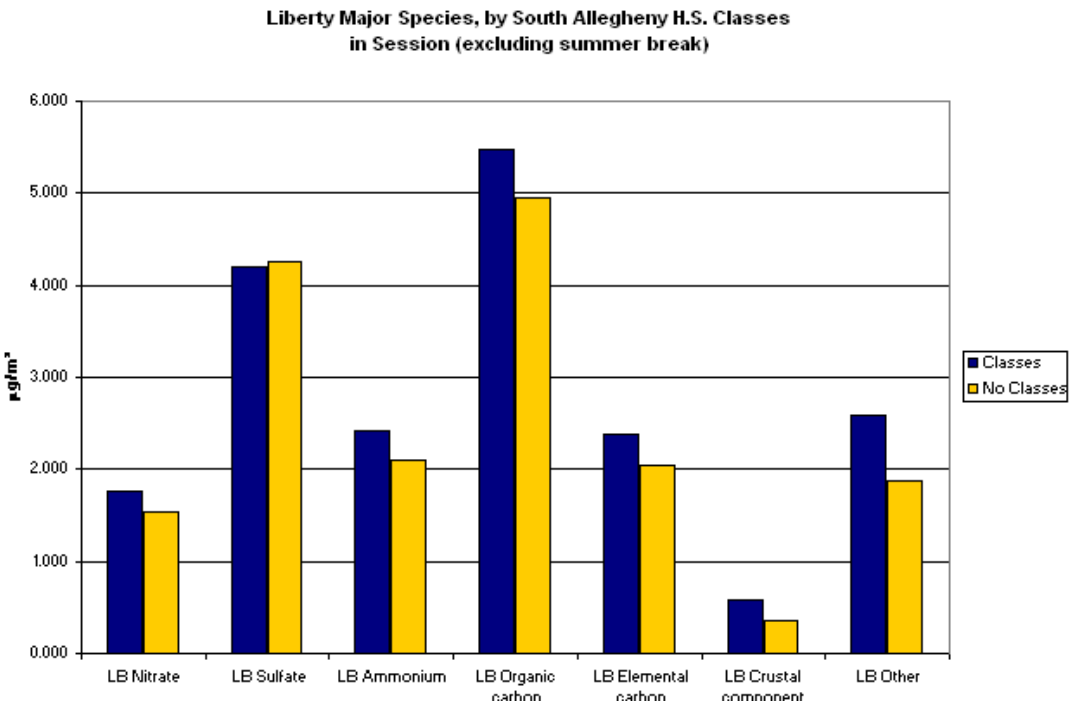
9. Liberty School Buses

The Liberty site is located on the roof of South Allegheny High School, and school bus diesel emissions are a possible source of $PM_{2.5}$ for that monitor. School buses line up on both sides of the high school in the morning and afternoon; the Liberty monitor is located near the center of the roof.

The column chart below shows average concentrations of major species on a classes-in-session basis. On a day when classes are not in session and school buses are not present, diesel emissions from buses are not impacting the speciation monitor.



This above chart represents year-round averages. However, $PM_{2.5}$ can show a seasonal bias for certain species, such as sulfate in summer. To eliminate bias for summer days when classes are never in session, summer days can be removed from the averaging in order to show a more specific breakdown of species collected during the school year only.

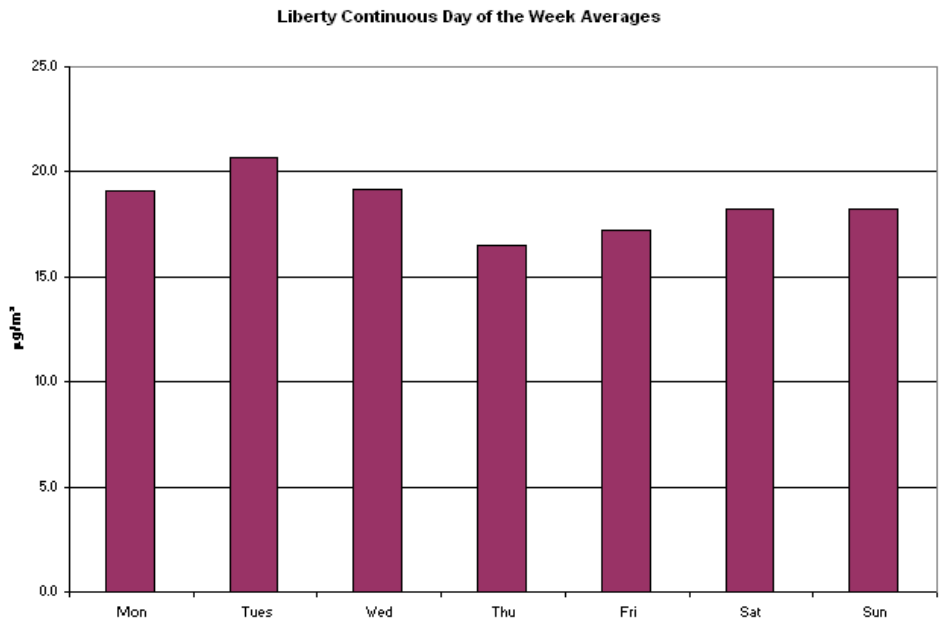


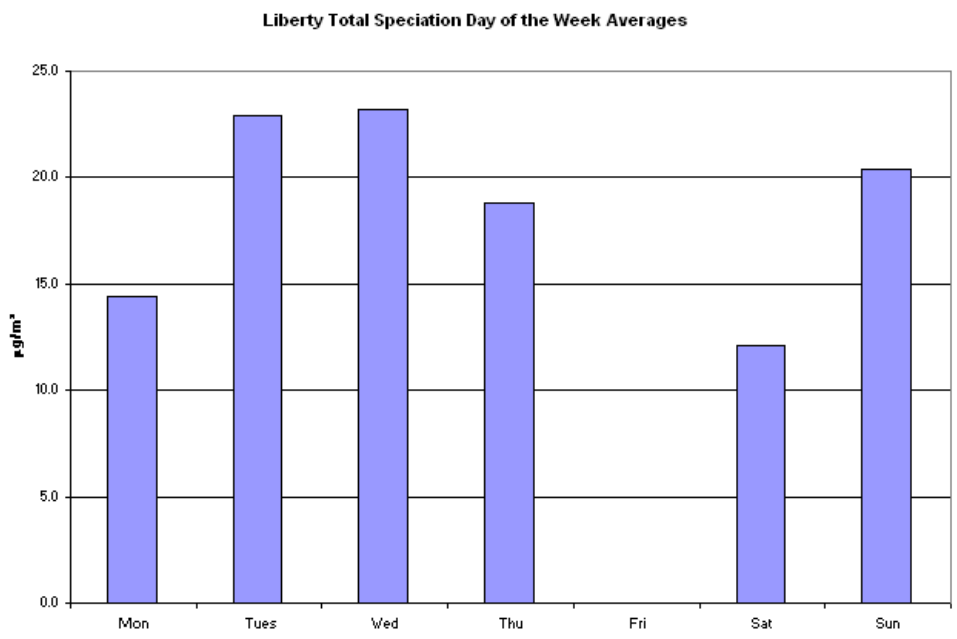
The adjusted column chart above represents a more specific analysis of days with or without school bus emissions during the course of a school year (autumn through spring).

It can be seen on the chart that all species except sulfate are higher during days when classes are in session. Diesel emissions are most commonly associated with elemental carbon. Since elemental carbon is indeed higher on class-days, school buses emissions may be impacting the Liberty monitor. However, higher concentrations for the additional species on class-days may suggest that the concentration differences are statistically random.

10. Days of the Week

Below are column charts of average total $PM_{2.5}$ concentrations for the continuous and speciation monitors.

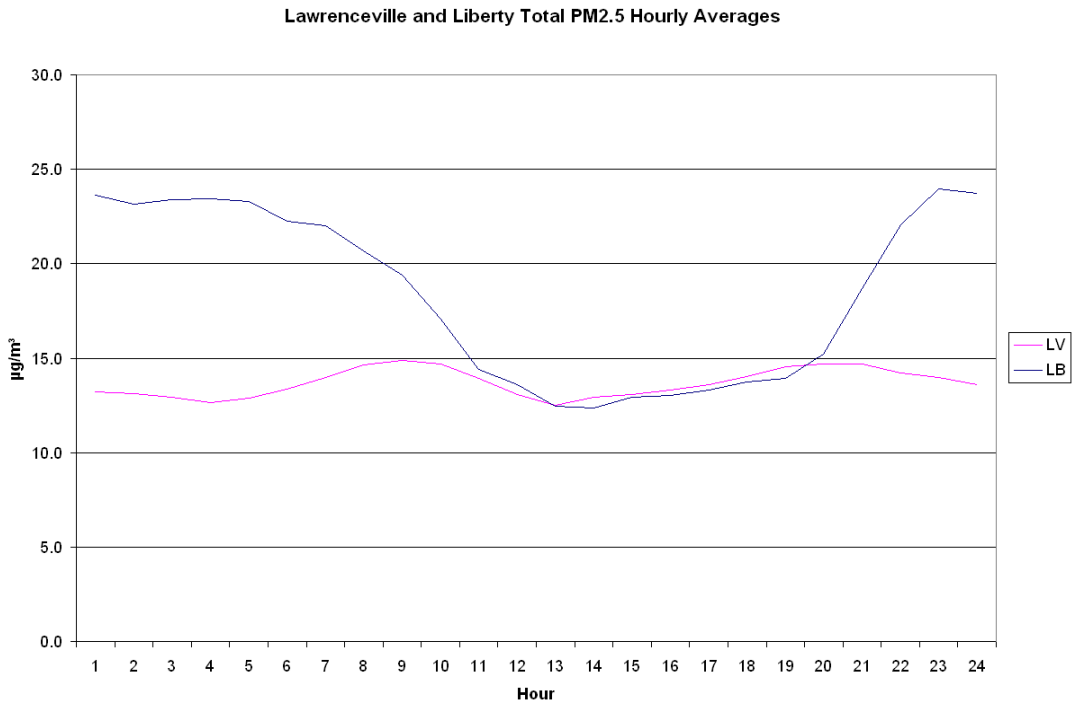




Total $PM_{2.5}$ concentrations show some variance by day of the week. For the speciation monitor, there are no Friday samples on account of invalid retrieval times following a weekend.

11. Liberty Peak Days

Peak $PM_{2.5}$ days usually occur simultaneously at Lawrenceville and Liberty, but the peaks have different species compositions and concentrations. Simultaneous peaking may be due to broad-scale inversions or other regional events. Liberty is much more greatly affected by inversions, however, as evident by the average hourly plot shown below.



Liberty $PM_{2.5}$ levels are highly influenced by nocturnal temperature inversions, when warmer upper-air layers trap pollutants close to surface level. Lawrenceville is moderately influenced by inversions near daybreak, but overall the levels remain steadier at Lawrenceville on a diurnal basis.

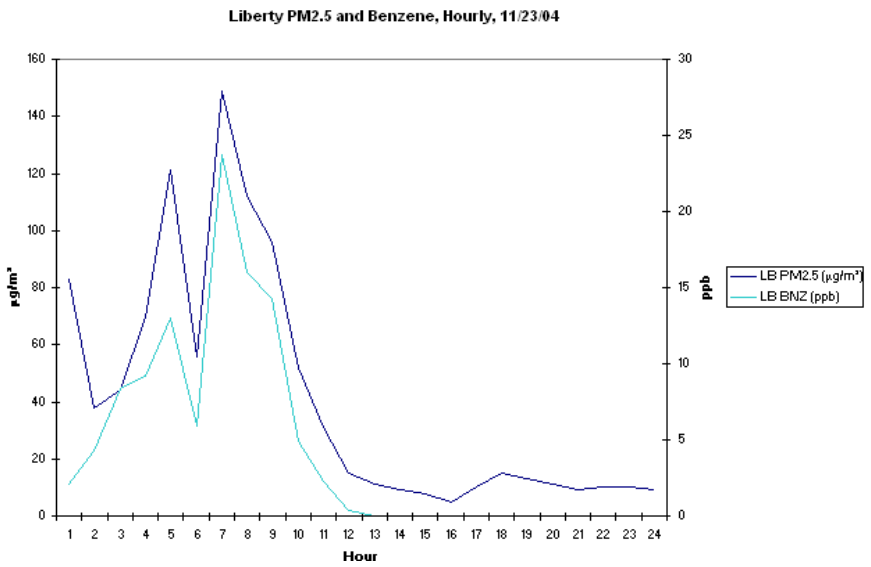
Meteorological parameters and hourly multi-pollutant plots are shown on the following pages for selected peak days at Liberty. These peak days coincide with high carbon and ammonium concentrations. Additionally, high chlorine concentrations are present on cold-weather peak days.

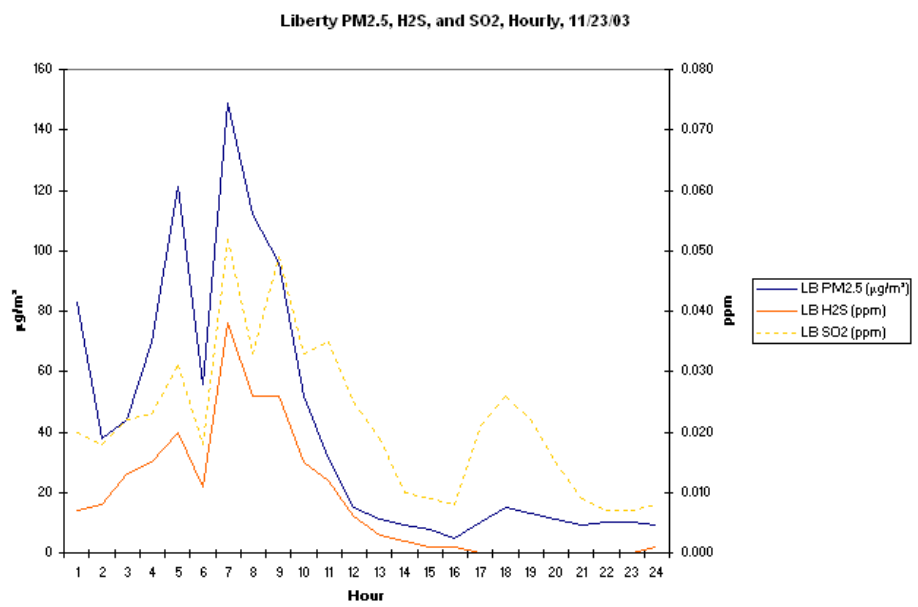
Benzene concentrations on the hourly plots represent gaseous benzene only.

Resultant wind parameters represent the sum of the vector components. Persistence is the ratio of resultant wind speed to scalar mean (average) wind speed.

SAMPLING DATE: 11/23/03

Total $PM_{2.5}$ Speciation ..... 53.5 µg/m³
Resultant wind speed ..... 3.1 mph
Resultant wind direction 164º
Wind persistence 0.89

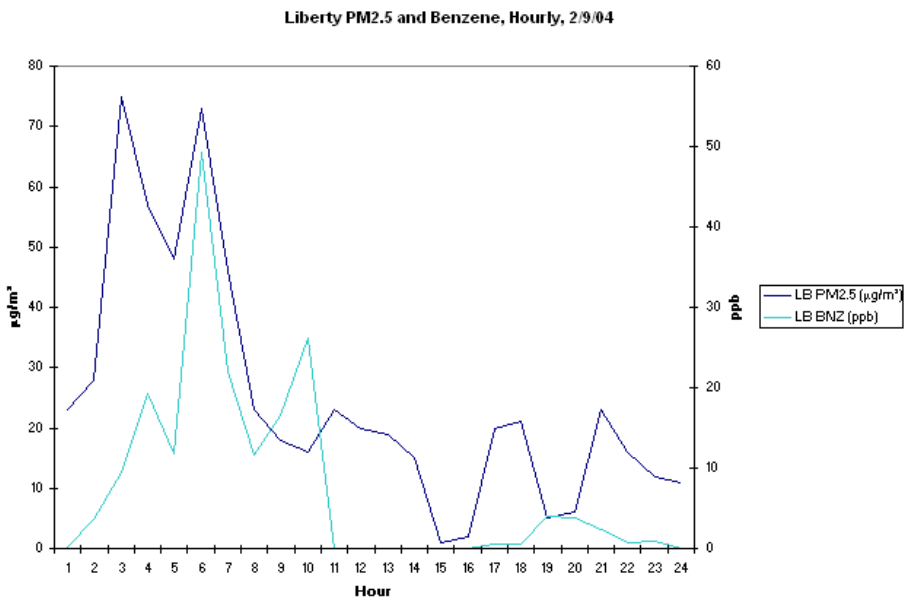


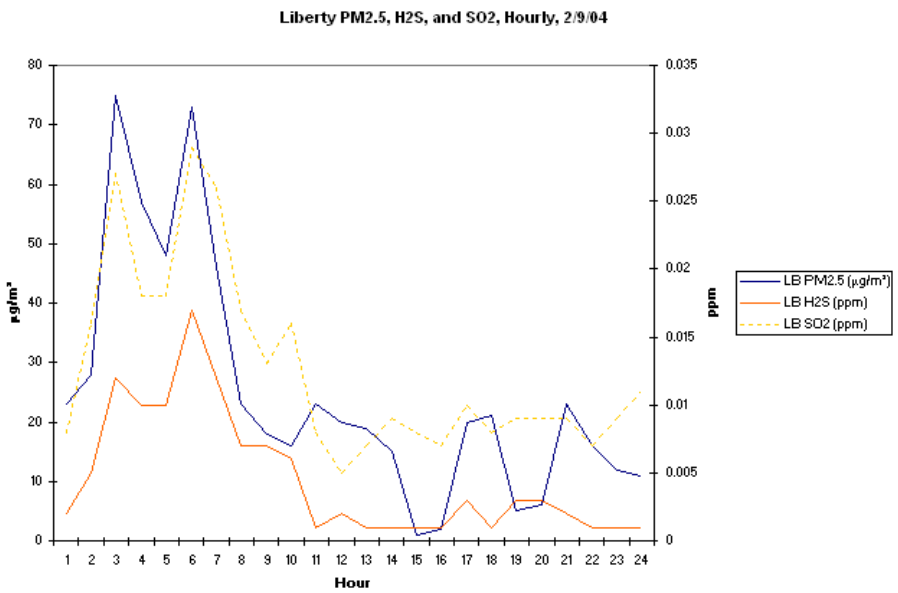


On this date, a morning inversion led to high total $PM_{2.5}$, benzene, and H_2S. Winds were persistent and from the south-southeast.

SAMPLING DATE: 2/9/04

Total $PM_{2.5}$ Speciation ..... 29.5 µg/m³
Resultant wind speed ..... 8.0 mph
Resultant wind direction 216º
Wind persistence 0.98

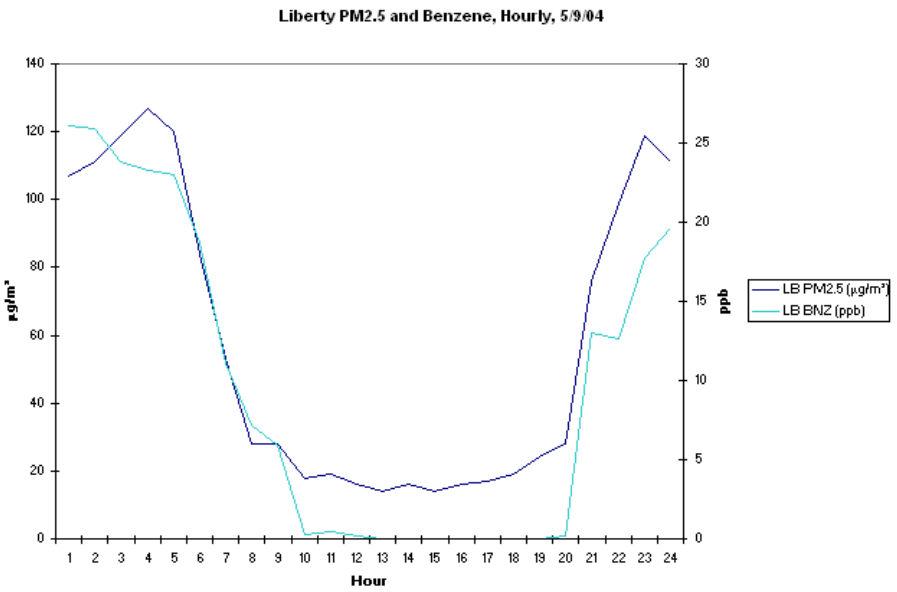


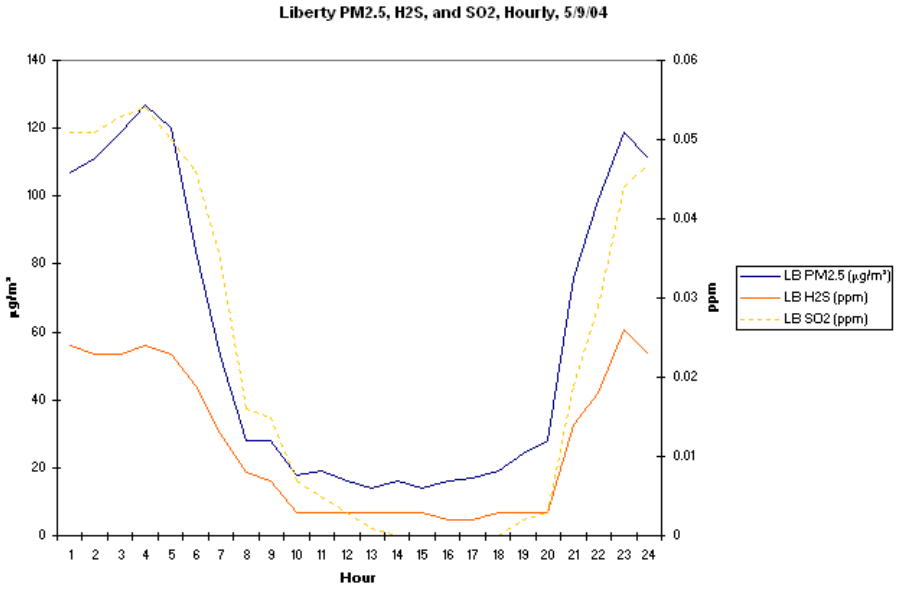


On 2/9/04, a morning inversion led to high total $PM_{2.5}$, benzene, and H_2S. Winds were persistent, strong, and from the south-southwest.

SAMPLING DATE: 5/9/04

Total $PM_{2.5}$ Speciation ..... 58.0 µg/m³
Resultant wind speed ..... 5.1 mph
Resultant wind direction 227º
Wind persistence 0.95

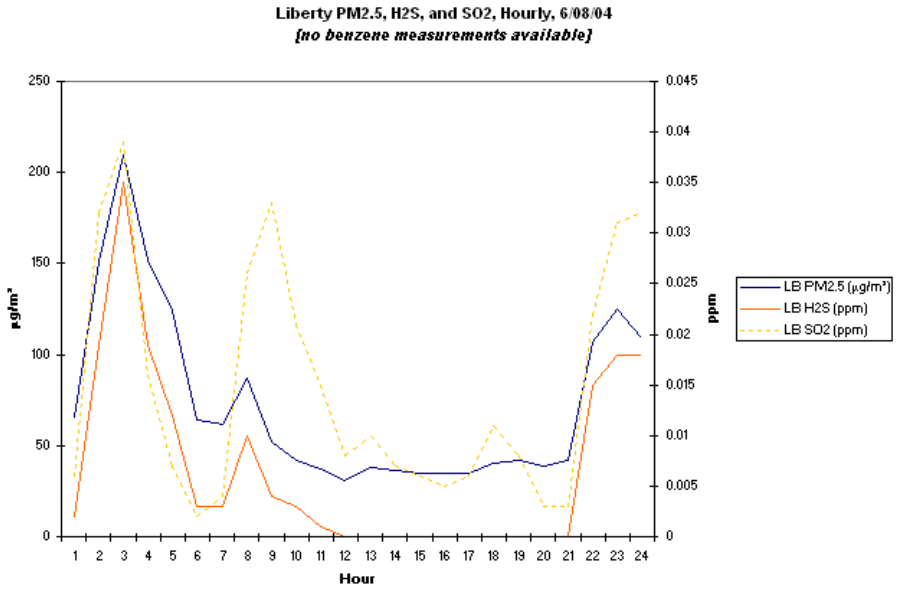




On this date, nighttime inversions led to high total $PM_{2.5}$, benzene, and H_2S. Winds were persistent, strong, and from the southwest. All pollutants track together.

SAMPLING DATE: 6/8/04

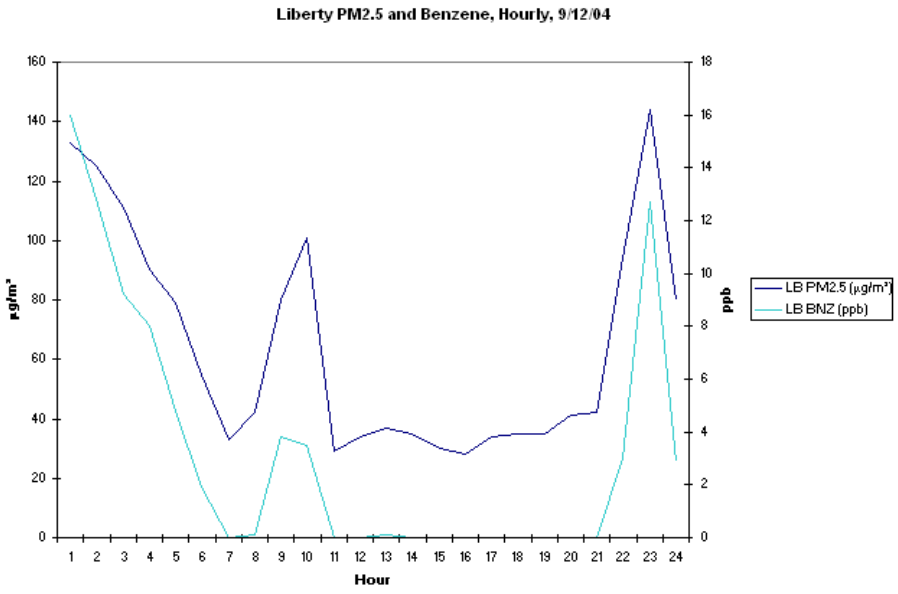
Total $PM_{2.5}$ Speciation ..... 75.0 µg/m³
Resultant wind speed ..... 2.8 mph
Resultant wind direction 212º
Wind persistence 0.97

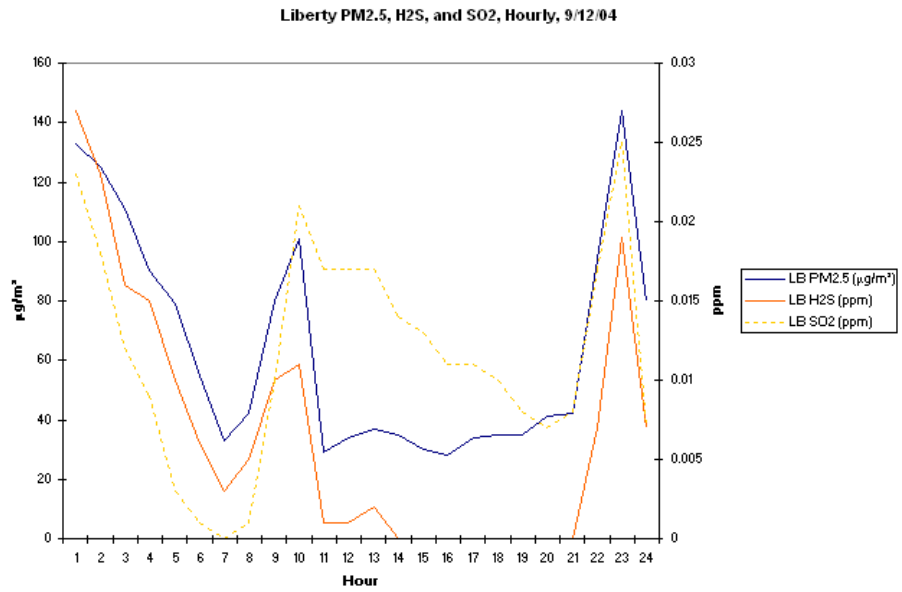


On 6/8/04, nighttime inversions led to very high total $PM_{2.5}$ and H_2S concentrations. Winds were persistent and from the south-southwest.

SAMPLING DATE: 9/12/04

Total $PM_{2.5}$ Speciation ..... 64.2 µg/m³
Resultant wind speed ..... 1.2 mph
Resultant wind direction 216º
Wind persistence 0.85

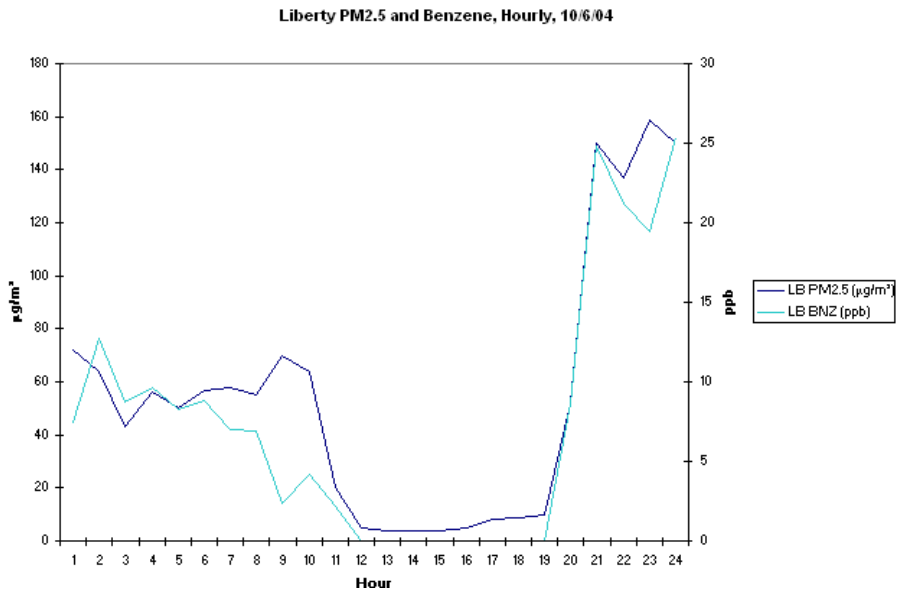


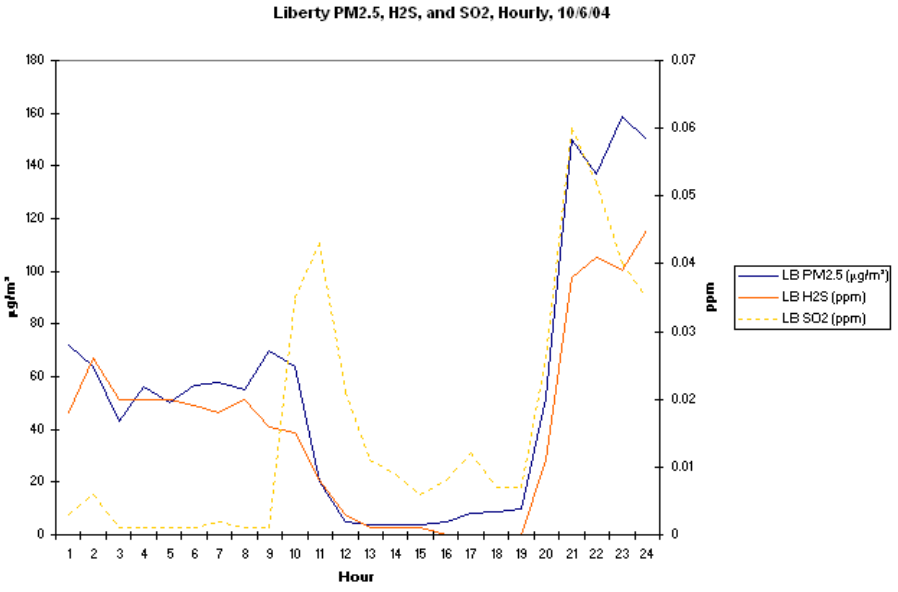


On this date, nighttime inversions led to high total $PM_{2.5}$, benzene, and H_2S concentrations. Winds were fairly persistent, weak, and from the south-southwest.

SAMPLING DATE: 10/6/04

Total $PM_{2.5}$ Speciation ..... 54.2 µg/m³
Resultant wind speed ..... 1.4 mph
Resultant wind direction 219º
Wind persistence 0.95

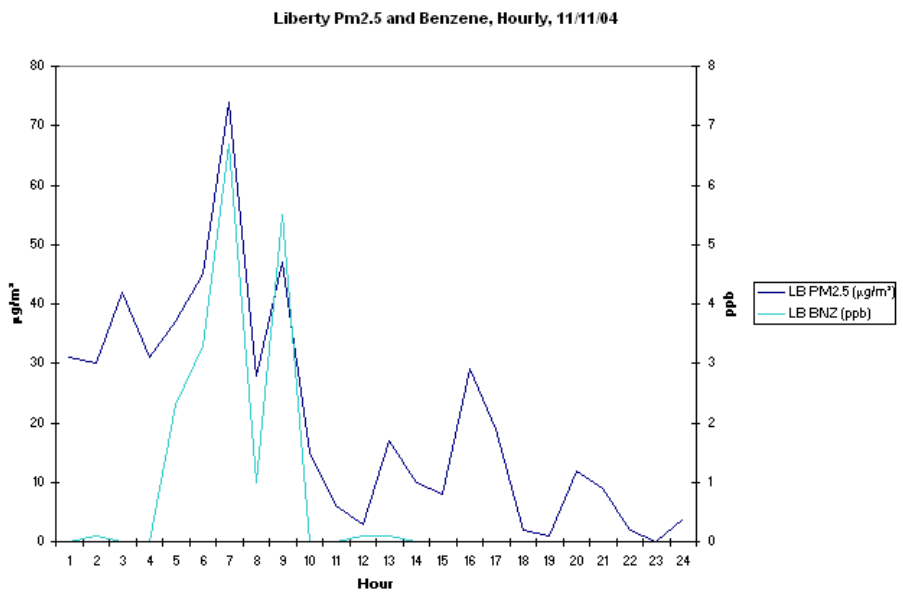


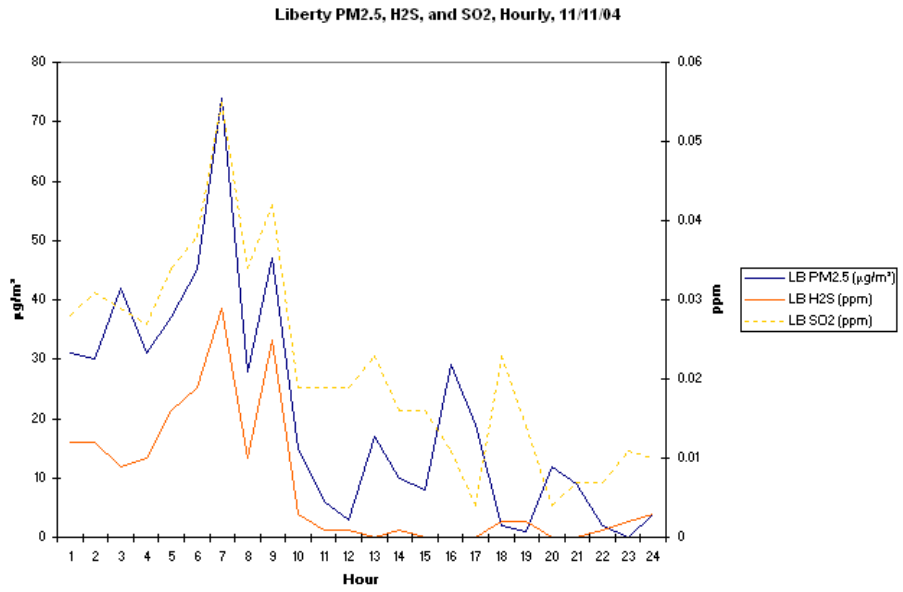


On 10/6/04, nighttime inversions led to high total $PM_{2.5}$, benzene, and H_2S concentrations. Winds were persistent, weak, and from the south-southwest.

DATE: 11/11/04

Total $PM_{2.5}$ Speciation ..... 30.1 µg/m³
Resultant wind speed ..... 2.0 mph
Resultant wind direction 125º
Wind persistence 0.34





On 11/11/04, a morning inversion led to high total $PM_{2.5}$, benzene, and H_2S concentrations. Winds were not persistent and were from the southeast.

12. Conclusion

Lawrenceville is affected by both regional flow and urban excess for $PM_{2.5}$. The primary sources of the urban excess are from anthropogenic sources such as from light industry, residential and commercial heating, and mobile source emissions. The regional flow contribution is mostly attributed to upwind power plant emissions, but may also include $PM_{2.5}$ from biogenic sources such as trees.

At Liberty, regional flow is evident for some $PM_{2.5}$ species, while concentrations of other species do not follow regional flow. It is assumed that species that do not follow regional flow may be attributed to sources resident to the area, both stationary and mobile. Liberty is more highly influenced by inversions than Lawrenceville. Carbons and ammonium are prominent species on peak days at Liberty. Chorine is also prominent on cold-weather peak days.

To gain further understanding of $PM_{2.5}$ in Allegheny County, future analysis may include the following:

- Additional correlations
- Deployment of additional monitors
- Source testing
- Dispersion modeling
- Wind or other meteorological studies

13. Additional Information

For more information concerning Allegheny County speciation monitoring and analysis, contact the ACHD Air Quality Program at 412-578-8120.

For general information about $PM_{2.5}$ and air quality, visit EPA's web site: www.epa.gov.

For information concerning PA DEP Air Quality, visit: http://www.dep.state.pa.us/dep/deputate/airwaste/aq/default.htm.

For information about $PM_{2.5}$ speciation collection and analysis methods, visit RTI's web site: www.rti.org.

Allegheny County Health Department
Air Quality Program
301 39th St., Bldg. #7
Pittsburgh, PA 15201

Allegheny County $PM_{2.5}$ Source Apportionment Results using the Positive Matrix Factorization Model (PMF Version 1.1)

Model Timeframe: July 2003 through August 2005

January 13, 2006

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1. Executive Summary

The Positive Matrix Factorization Model (PMF Version 1.1)[1] is a Windows-based software tool developed by EPA as a method to estimate source contributions based on actual monitored results. PMF performs a least-squares fit over an array of species measured simultaneously at a monitoring site.

The Allegheny County Health Department operates $PM_{2.5}$ speciation monitors at Lawrenceville in the City of Pittsburgh and at Liberty Borough near the southeastern tip of Allegheny County. Each speciation monitor measures 54 different species of $PM_{2.5}$, including total mass concentration.

Sample concentrations were entered into PMF along with date-matched uncertainties. Source factors were then calculated by the model as a result of iterative methods that converge on possible solutions to the array of variables. Modeled source factors were then matched to possible actual source types according to known species profiles, previous source apportionment studies, and a conceptual model of the area. A conceptual model is a fundamental understanding of how pollutants behave based on emissions inventory, monitored results, meteorological conditions, and transport phenomena.

This report is based on preliminary results using PMF Version 1.1. It is anticipated that future receptor modeling will be performed at a later date using a larger array of samples for the Lawrenceville and/or Liberty sites. This may also include wind direction or trajectory analysis for specific factors.

PMF modeling resulted in the following 11 source factors for Lawrenceville:

Secondary Ammonium Sulfate	Secondary Ammonium Nitrate	Diesel Vehicles + Misc. Road Dust	Diesel Vehicles + Ferromanganese-Rich Industrial	Incinerators	Gasoline Vehicles + Tire Wear	Gasoline Vehicles + Selenium-Rich Industrial	Airborne Crustal (Silicon-Rich)	Airborne Crustal (Other)	Road Dust (Road Salt-Rich)	Misc. Burning and Cooking
5.49	2.81	0.42	0.26	0.45	0.79	0.58	0.28	0.52	0.38	2.40

PMF modeling also resulted in the following 12 source factors for Liberty:

Secondary Ammonium Sulfate	Secondary Ammonium Nitrate	Carbon-Rich Industrial	Selenium-Rich Industrial	Zinc-Rich Sources	Halogen-Rich Sources	Diesel Vehicles	Gasoline Vehicles	Airborne Crustal (Silicon-Rich)	Airborne Crustal (Other)	Road Dust	Vegetative Burning
4.33	1.75	4.00	0.12	0.46	1.03	1.35	1.11	0.28	0.52	0.15	1.37

The values shown above are concentrations for each factor in units of $\mu g/m^3$. Detailed results for Lawrenceville and Liberty are given in Section 4 and Section 5, respectively.

[1] PMF 1.1 is currently under peer review and is not yet available for distribution. See disclaimer at the end of this document.

2. Sites

The Lawrenceville monitor site is an urban residential site, downwind from the Pittsburgh Central Business District (Downtown). Monitored data shows that Lawrenceville is affected by both regional flow and urban excess for $PM_{2.5}$. The regional flow is presumably due to upwind power plant emissions, but may also include $PM_{2.5}$ from biogenic sources such as trees. The urban excess sources should be anthropogenic sources such as light industry, mobile source emissions residential and commercial burning/heating.

The Liberty Borough monitor site is located in the Monongahela Valley, which contains a mix of urban residential, heavy industrial, and rural areas. Monitored data shows that regional flow is evident for some $PM_{2.5}$ species, while concentrations of other species do not follow regional flow. It is assumed that species that do not follow regional flow may be originating at sources resident to the area, both stationary and mobile.

Uncertainties for speciation data were uploaded to AQS beginning with July 2003 data. Data used in this PMF modeling spans the dates July 2003 through August 2005.

Over this timeframe, 206 samples were modeled for the Lawrenceville site (a 1-in-3 sampling frequency). Dates on or near the Fourth of July were removed due to outliers in the concentrations due to fireworks. Potassium nitrate and other ingredients can lead to abnormal concentration levels of trace elements, some of which rarely exceed minimum detection limits (MDLs) on average days.

Since Liberty is a 1-in-6 sampler and only began operation in October 2003, only 91 samples were modeled for the Liberty site. Independence Day firework outliers were also observed at this site, and corresponding dates were removed from the modeling input file.

3. Methodology

Model operation was followed according the user's guide and modeling workbook. The PMF model was tested under many different species and factor combinations. Species are excluded if they exhibit low signal-to-noise ratios, are frequently below the minimum detection limit (MDL), or do not easily fit into a least-squares solution.

The major species measured from the speciation monitors show the highest concentrations, strongest signal-to-noise ratios, and are usually a sign of specific sources. These species can strongly affect the model. These species include:

Sulfate	Organic Carbon
Nitrate	Elemental Carbon
Ammonium	Total $PM_{2.5}$

The following trace element species also had significant concentrations and strong signal-to-noise ratios. They may also be important tracer elements, associated with specific sources. These species include:

Aluminum	Copper	Potassium
Arsenic	Iron	Selenium
Bromine	Lead	Silicon
Calcium	Manganese	Titanium
Chlorine	Mercury	Vanadium
Chromium	Nickel	Zinc

Over half of the trace element species available were *excluded* from the modeling based on frequent concentrations that were less than the MDL. These elements provide little weight in the fit of a solution. These species include:

Antimony	Gold	Phosphorus	Terbium
Barium	Hafnium	Rubidium	Tin
Cadmium	Indium	Samarium	Tungsten
Cobalt	Iridium	Scandium	Yttrium
Cerium	Lanthanum	Silver	Zirconium
Cesium	Magnesium	Sodium	
Europium	Molybdenum	Strontium	
Gallium	Niobium	Tantalum	

Sulfur as a trace element has also been excluded from the model, since nearly all sulfur as a component of $PM_{2.5}$ in the Pittsburgh region is accounted for by sulfate.

Total $PM_{2.5}$ was used PMF an strength indicator for each factor but was down weighted in order to lower its influence on the fit of the model. Down weighting increases the uncertainty by a factor of 3.

Trace element species with low signal-to-noise ratios (less than 3.0) were down weighted. Low signal-to-noise ratios mean that a species' concentrations and uncertainties are nearly equal.

Trace element species that fit less perfectly than other species into a convergent solution were also down weighted. A poor fit is reflected by poor diagnostics from regression, standard deviation, and residual statistics.

Additionally, a 5% uncertainty was applied to the entire model (based on EPA recommendation) for samples taken from Speciation Trends Network (STN) speciation monitoring sites, used by Allegheny County.

The number of source factors in the model are increased or decreased based on the performance of the model and the rationality of the results. A source factor does not necessarily represent a single source but rather a source type or scenario (or combination thereof) that leads to contributions at the monitor site. Too few sources factors indicate a lack of uncertainty and creates profiles with species that are clustered. Too many source factors indicate too much uncertainty and leads to profiles that cannot be characterized or are too small in overall concentration to have significance.

The goodness-of-fit parameter (Q) for a perfect theoretical model is calculated as:

Q = (# samples * # good species) + [(# samples * # weak species)/3] – (# samples * # factors being estimated)

Source factors are varied in the model until the modeled Q converges on a solution that approaches the perfect theoretical Q. The source factor profiles for near-perfect model runs are then examined for physical validity.[2]

Some factors may be associated with a similar source type but are separated into more specific source factors by the model. For example, a source type of road dust may comprise a source factor that has a strong year-round presence and another factor that is seasonal. There may also be overlap of some source types. For example, a factor dominated by secondary ammonium sulfate may also include carbons and trace elements that may or may not be originating from the sulfate sources but are peaking simultaneously with sulfate.

[2] Results were compared to previously-compiled source profiles. See the References section of this document.

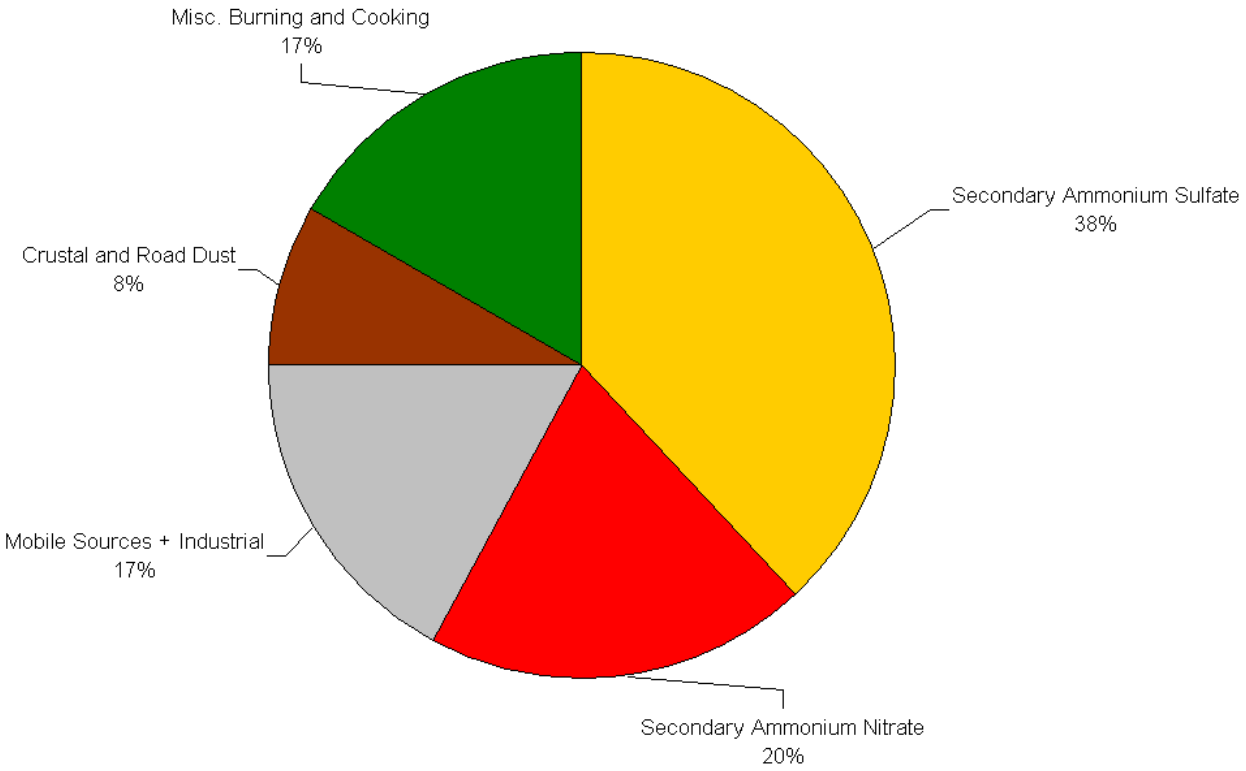
4. Modeled Results: Lawrenceville

A total of 206 Lawrenceville samples were input into the model. The best model runs were able to resolve 11 source factors. The following trace elements were down weighted in the model runs: Al, As, Br, Cr, Hg, K, Ni, Ti, and V.

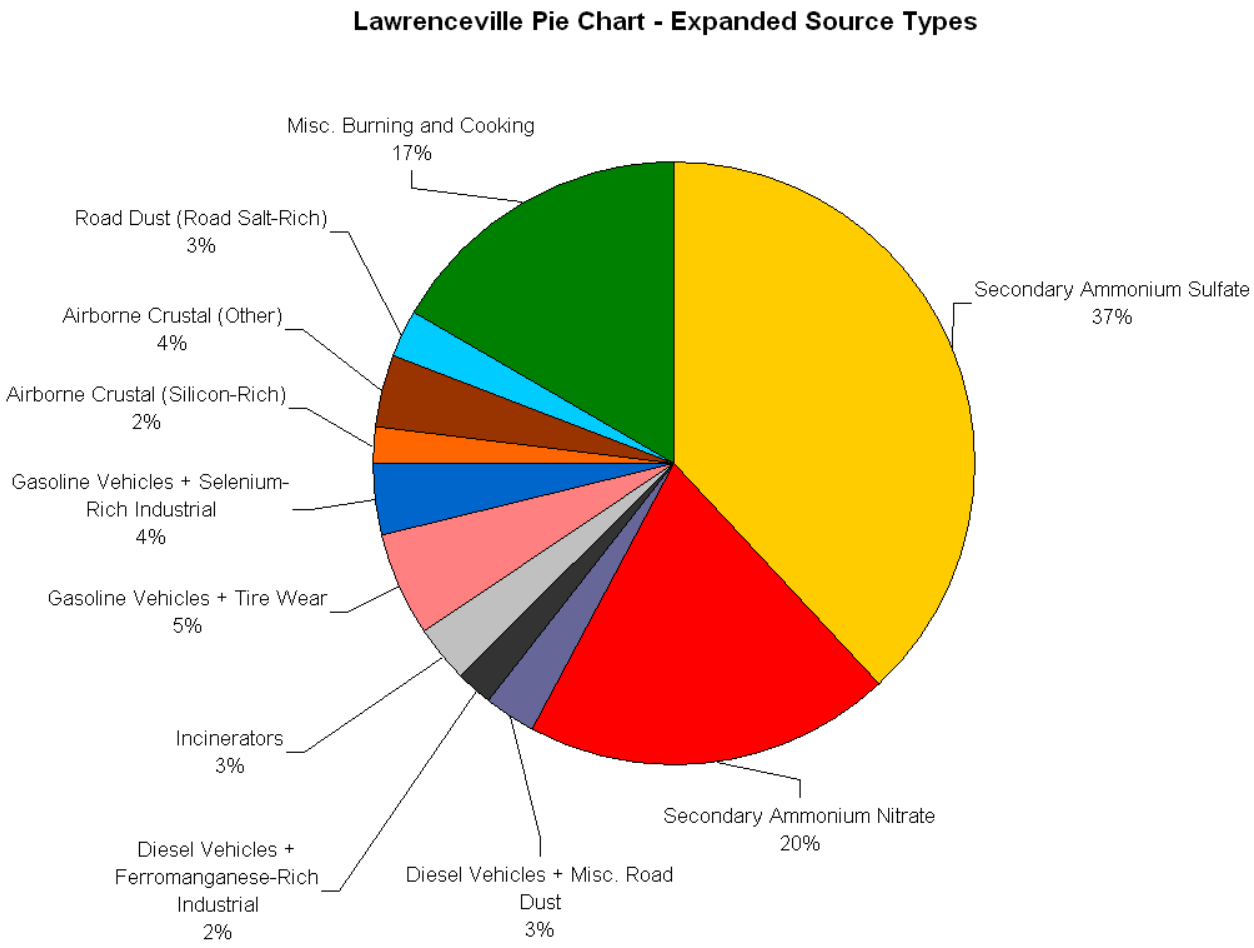
In addition to Fourth of July samples removed on account of trace element outliers, the sample taken on 4/10/2005 has been removed from the modeling. An exceptional event was identified on this date in which crustal elements (geological dust, or airborne soil) were higher than the norm.

Lawrenceville results exhibited source factors that are common to urban areas. A simplified pie chart of the best-guess source types (by percentage of summed concentrations) is shown below.

Lawrenceville Pie Chart - Simplified Source Types



An expanded pie chart of the source types is also shown below.



Lawrenceville source factor profiles and associated source types are given in the table below. Species concentrations that were considered to be indicators of the specific source types are shown in bold.

	Secondary Sulfate/Nitrate		Mobile and Industrial Sources					Crustal and Road Dust			Misc. Burning and Cooking
	Secondary Ammonium Sulfate	Secondary Ammonium Nitrate	Diesel Vehicles + Misc. Road Dust	Diesel Vehicles + Ferromanganese-Rich Industrial	Incinerators	Gasoline Vehicles + Tire Wear	Gasoline Vehicles + Selenium-Rich Industrial	Airborne Crustal (Silicon-Rich)	Airborne Crustal (Other)	Road Dust (Road Salt-Rich)	Misc. Burning and Cooking
Factor	1	8	5	2	6	7	9	4	11	10	3
Total	6.4161	2.5224	0.2664	0.3167	0.5161	1.0412	0.7419	0.5796	0.4859	0.4923	2.8246
Ammonium	**1.1737**	**0.5381**	0.0702	0.0304	0.0728	0	0	0.0572	0	0.0799	0.0530
Nitrate	0.0497	**1.3083**	0	0	0	0	0	0.0083	0.1195	0.1390	0
Sulfate	**3.7984**	0.4717	0.0688	0.0748	0.2202	0.0531	0.1002	0.1150	0.0001	0.0662	0.4070
Org_Carbon	0.4347	0.4330	0	0	**0.0834**	**0.6498**	**0.4265**	0	0.3544	0.0522	**1.6817**
Elem_Carbon	0.0312	0.0416	**0.2051**	**0.1017**	**0.0540**	**0.0599**	**0.0365**	0.0327	0	0.0181	**0.2118**
Al	0	0.0029	0	0.0011	0	0.0003	0.0003	0.0001	**0.0048**	0	0.0014
As	0.0003	0	0	0.0001	0	0.0003	0.0009	0.0001	0	0.0002	0.0012
Br	0.0004	0.0009	0.0005	0	0	0.0004	0.0004	0.0002	0.0001	0.0002	0.0010
Ca	0.0044	0	0	0.0061	0	0	0.0022	0	**0.0280**	0.0023	0
Cl	0	0.0004	0	0	0.0003	0	0.0001	0	0	**0.0180**	0
Cr	0.0002	0.0003	0.0005	0.0005	0.0007	0.0006	0.0005	0	0	0	0
Cu	0.0002	0	**0.0036**	0	0	0.0006	0.0002	0.0001	0	0	0
Fe	0	0.0020	**0.0649**	**0.0373**	0.0100	0	0	0	0.0049	0.0017	0.0126
Pb	0	0	0	0	**0.0094**	0	0.0021	0	0	0	0
Mn	0	0	0	**0.0065**	0	0.0001	0.0004	0.0001	0	0.0002	0
Hg	0.0001	0.0003	0.0001	0	0	0	0.0004	0	0	0	0.0004
Ni	0	0.0004	0.0009	0.0001	0	0.0001	0	0	0	0	0.0002
K	0	0.0075	0.0045	0	0.0003	0.0057	0.0062	0.0028	0.0083	0.0009	**0.0247**
Se	0.0003	0.0003	0	0	0	0	**0.0047**	0.0002	0	0.0002	0
Si	0	0.0008	0	0	0.0010	0	0.0016	**0.0639**	0.0026	0.0009	0
Ti	0.0004	0.0004	**0.0014**	0	0.0001	0.0005	0	0.0003	**0.0011**	0	0.0003
V	0.0002	0.0002	0	0	0	0	0	0	0	0.0002	0.0005
Zn	0	0.0021	0	0.0047	0.0026	**0.0162**	0	0.0008	0.0009	0.0026	0
SUM (exc. total)	*5.4942*	*2.8112*	*0.4205*	*0.2633*	*0.4548*	*0.7876*	*0.5832*	*0.2818*	*0.5247*	*0.3828*	*2.3958*

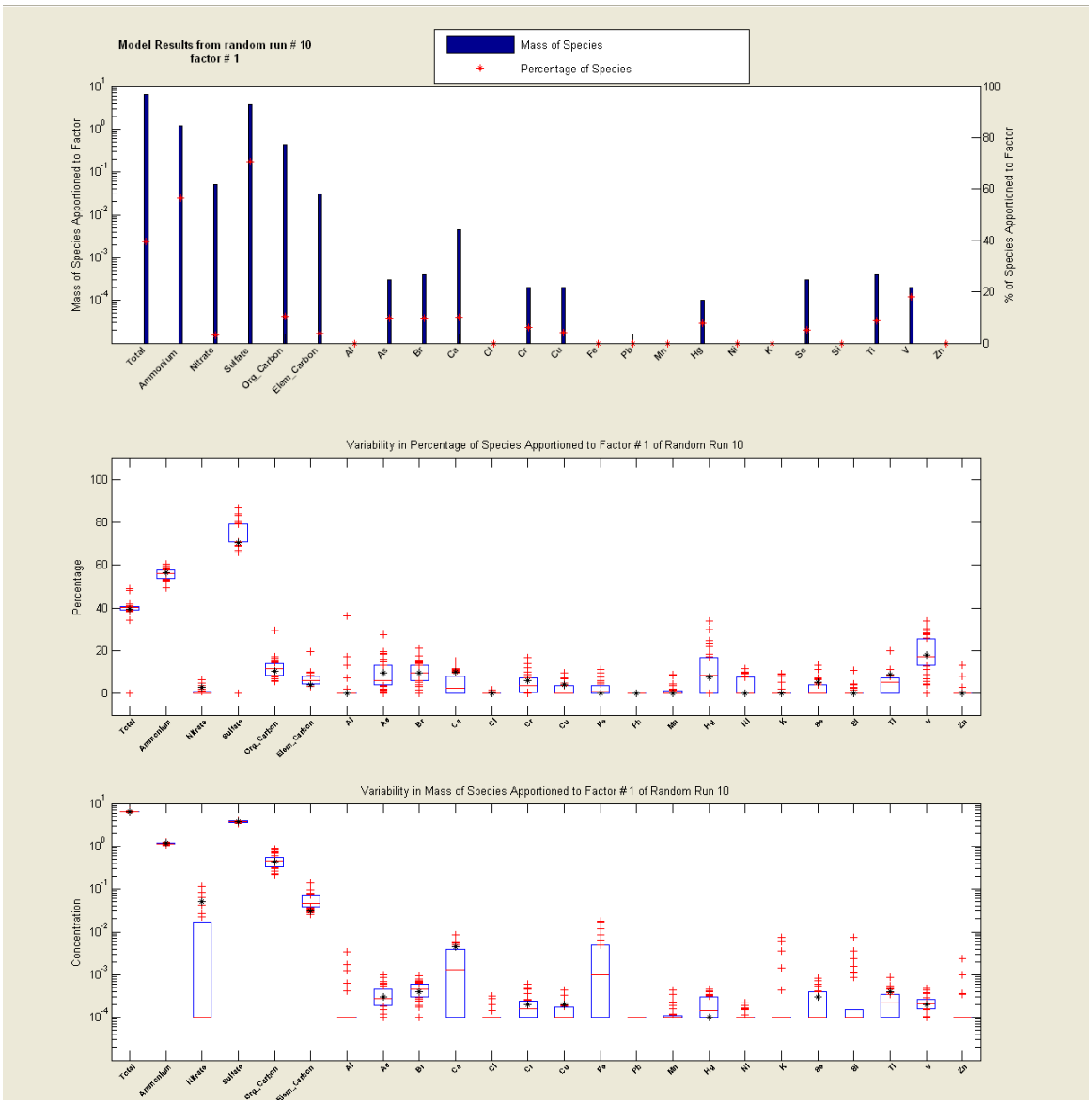
Analysis and graphical results for each factor are given on subsequent pages. Graphical results are copied directly from the model output and include the following for each factor:

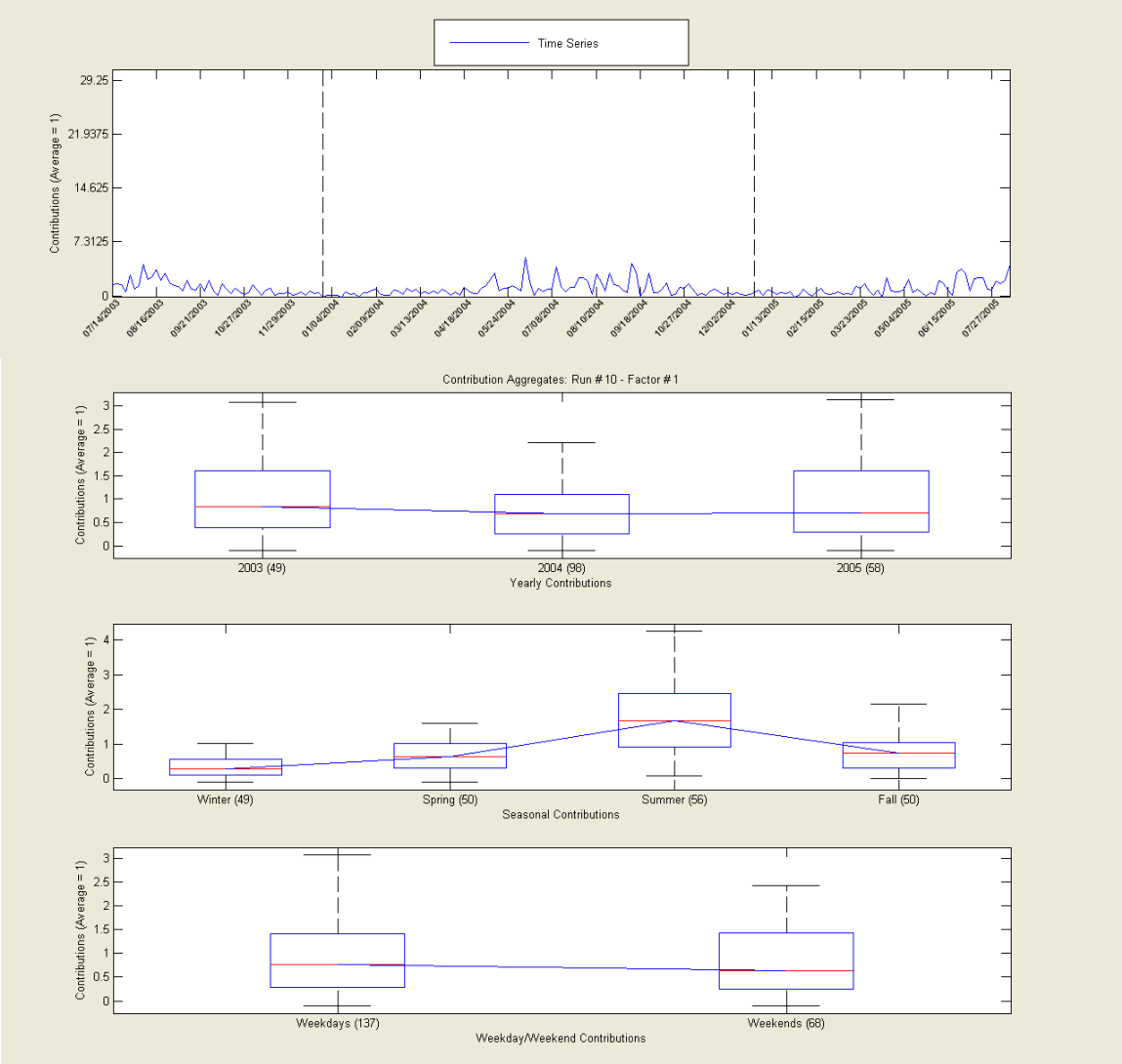
- Concentration by value and percentage of total for each species
- Variability (bootstrapping) for each concentration and percentage
- Time series plot by overall factor concentration
- Contribution aggregates according to season and day of the week

Note: Factors and runs are generated randomly by PMF and are not ranked according to any one species.

Lawrenceville Source Factor 1: Secondary Ammonium Sulfate

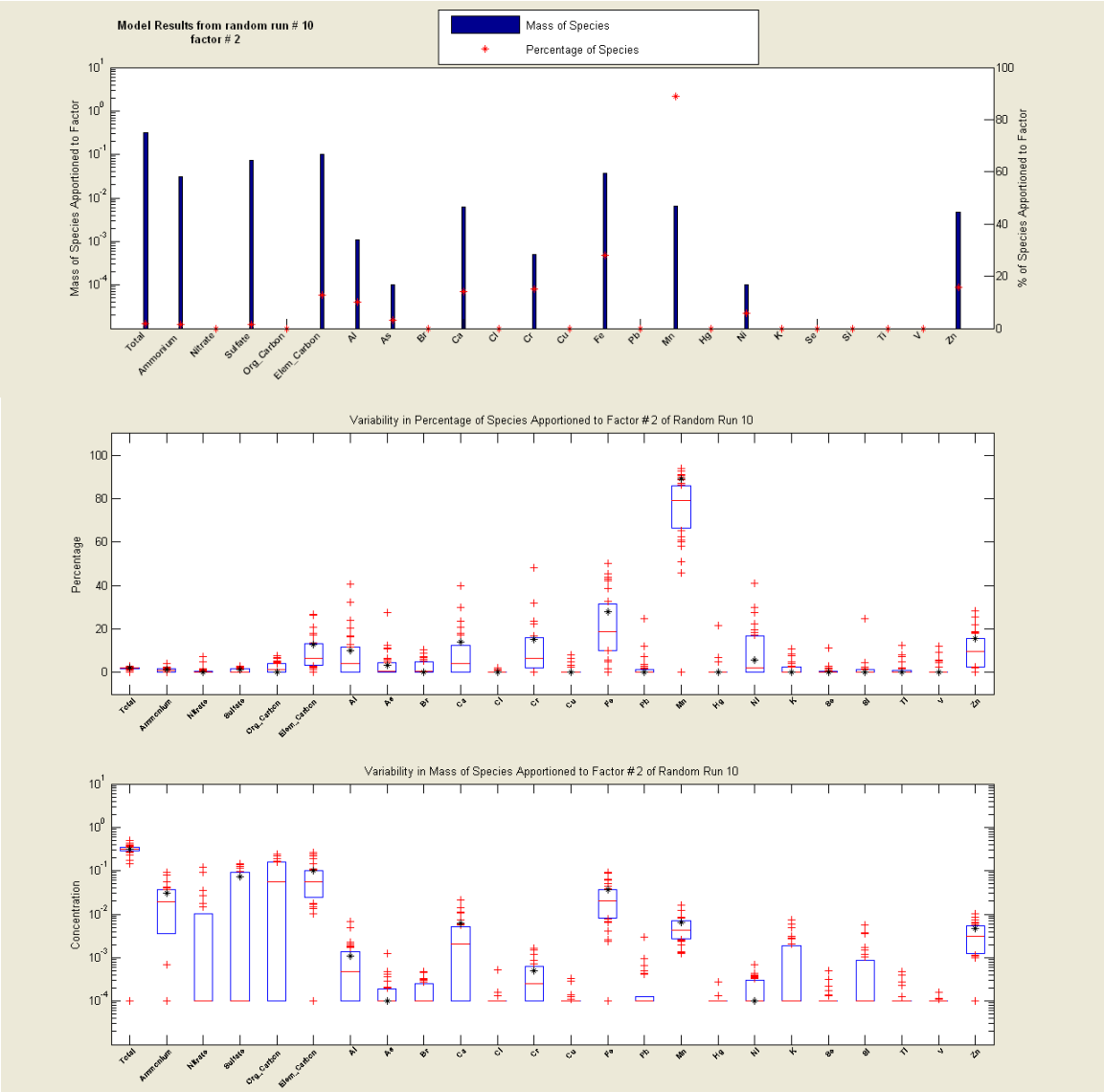
Factor 1 is the largest source factor by summed concentration and comprises the majority of ammonium sulfate at Lawrenceville. Contributions are highest in summer, when sulfate is most prevalent. Sulfate exists as secondary $PM_{2.5}$ in the Pittsburgh region, formed from upwind SO_2 sources such as coal-fired power plants. Factor 1 also contains some carbons and trace elements that are likely peaking concurrently with the sulfate. The organic carbon may be secondary in nature as well. Graphical results are shown below.

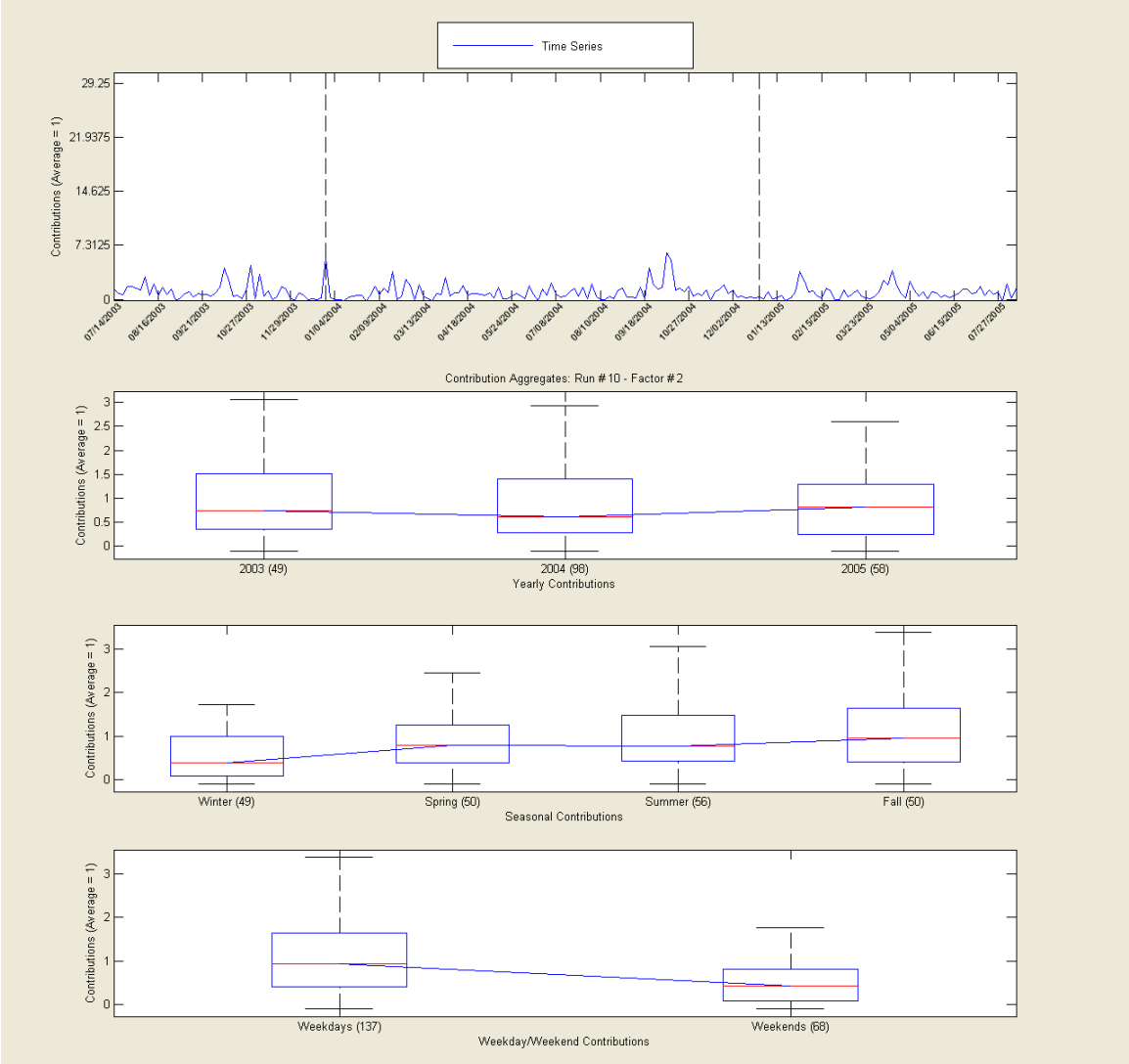



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/10/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 1
Contributions (Average = 1)
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Contributions (Average = 1)
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 2: Diesel Vehicles + Ferromanganese-Rich Industrial

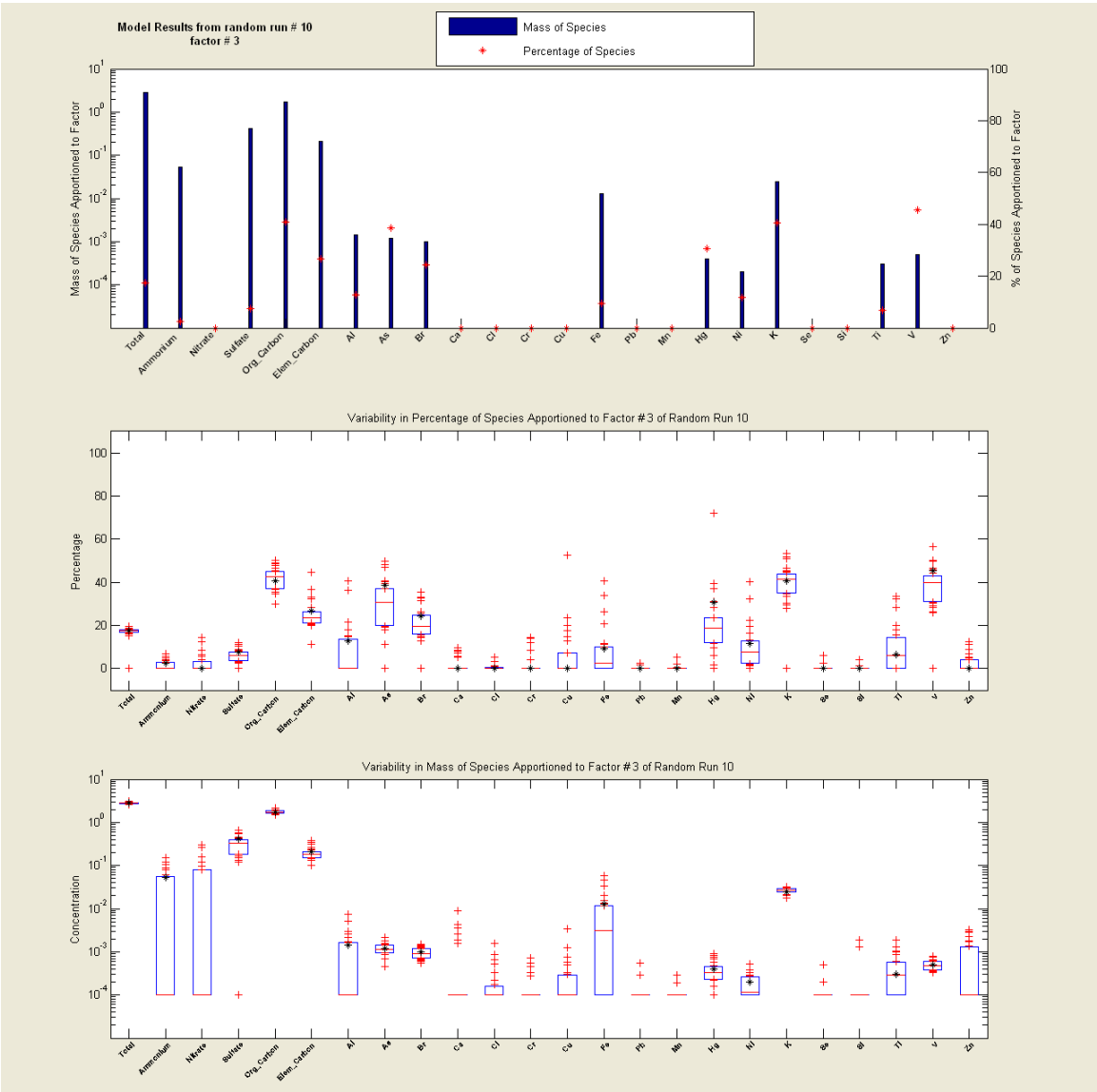
High elemental carbon and weekday contributions are indicative of diesel vehicles for Factor 2. There is also a strong presence of iron and manganese associated with this factor, which may be related to steel industry operations. Diesel and steel emissions may be originating from the same wind direction for this factor.

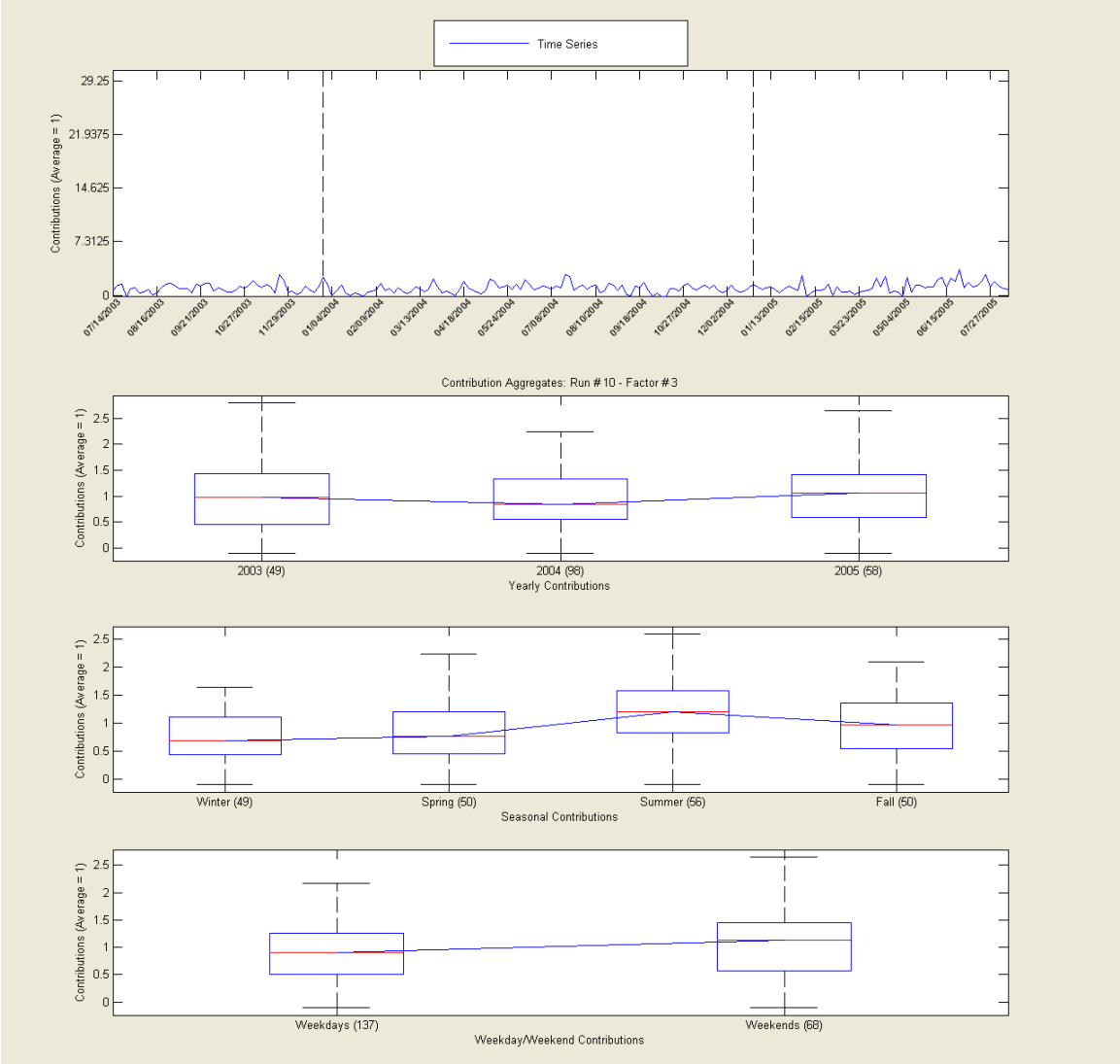



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/23/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 2
Contributions (Average = 1)
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Contributions (Average = 1)
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 3: Miscellaneous Burning and Cooking

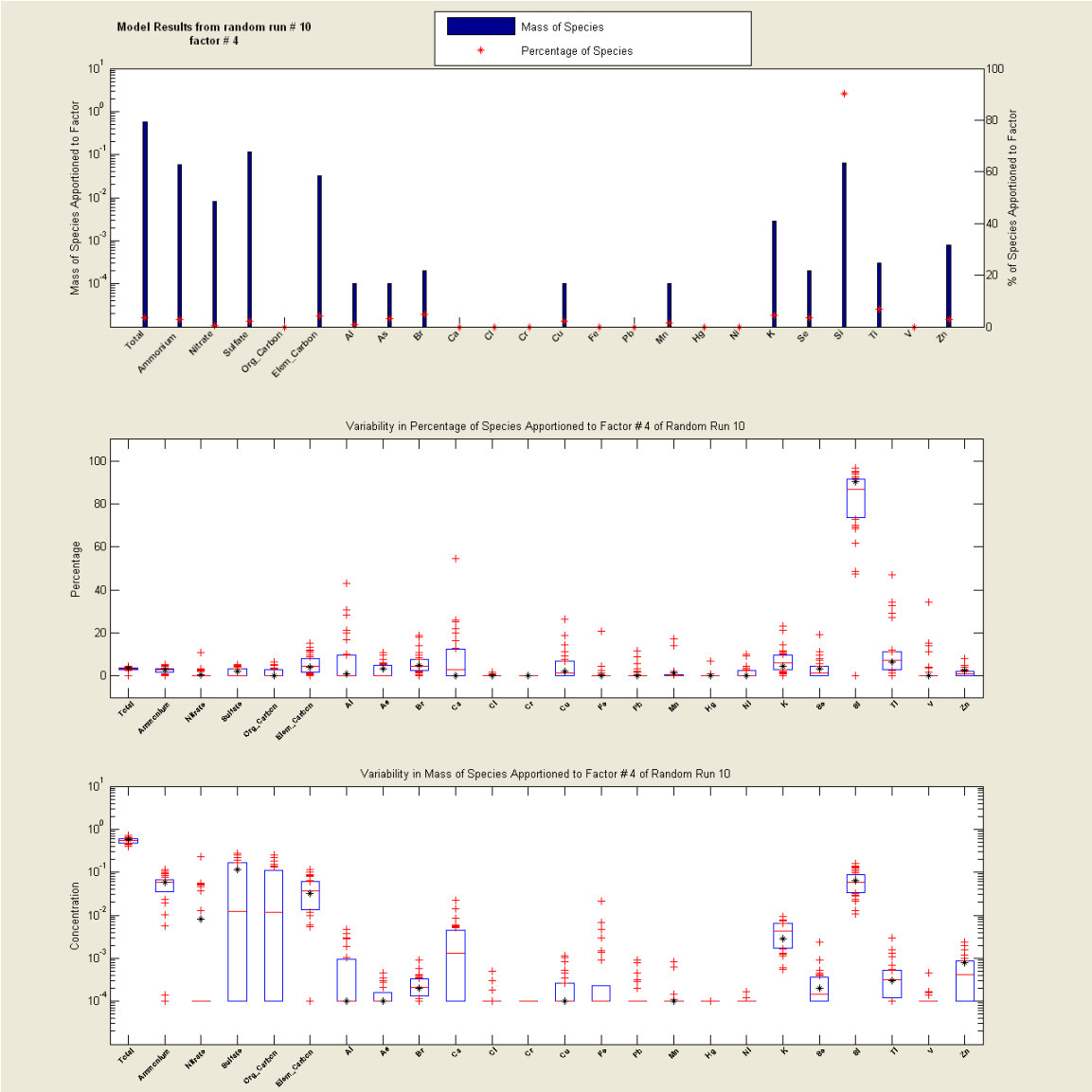
Factor 3 contains high amounts of carbons together with potassium, which are usually indicators of vegetative burning and cooking. This factor is slightly higher on weekends and in summer, perhaps due to recreational open burning and cooking. Arsenic, bromine, mercury, and vanadium are also high in percentage, perhaps due to oil/coal burning, either residential or commercial.

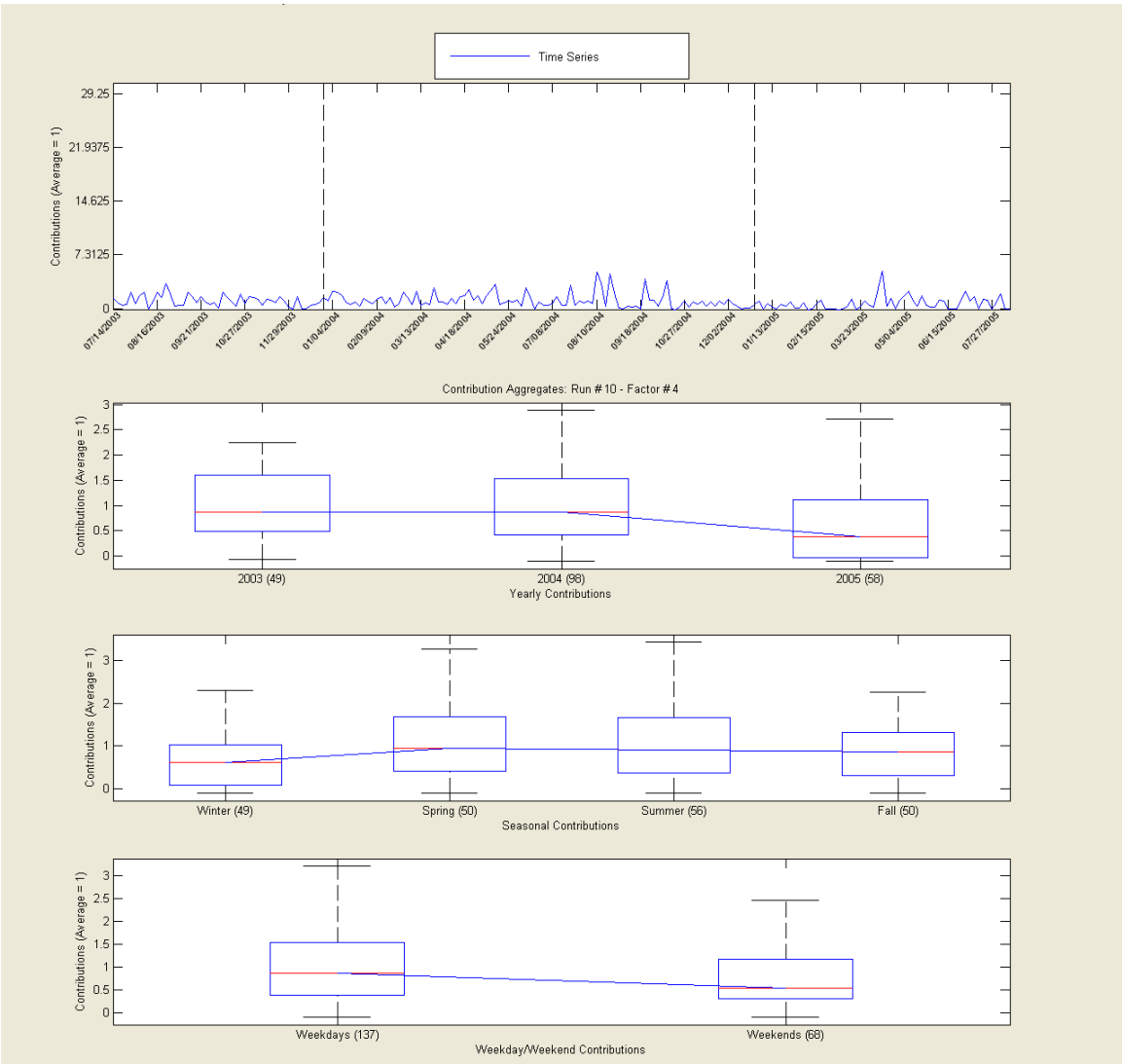



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/16/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 3
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Contributions (Average = 1)
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 4: Airborne Crustal (Silicon-Rich)

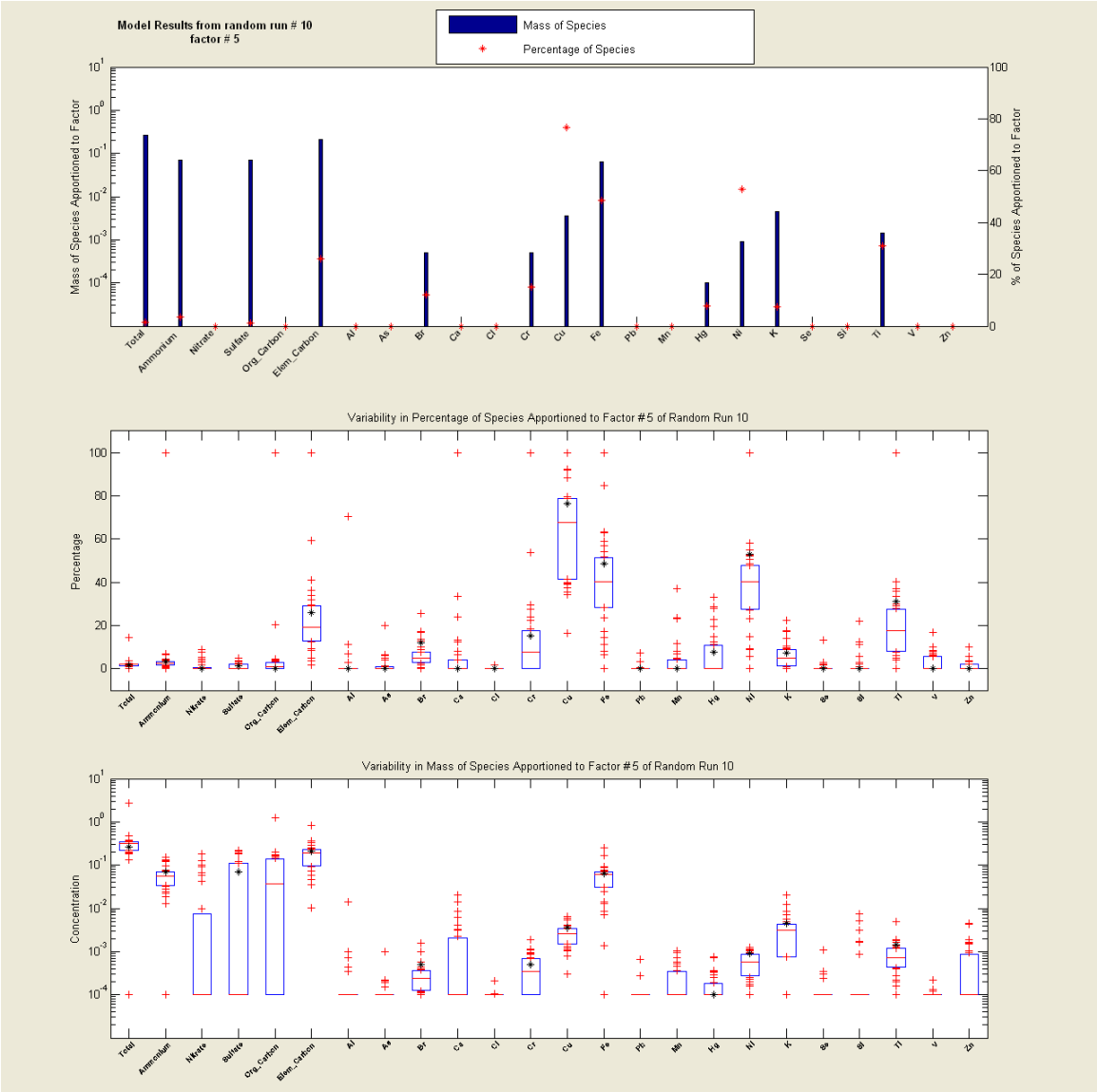
Crustal elements include aluminum, calcium, iron, silicon, and titanium. These elements are the basic make-up of fine airborne soil. Factor 4 is best attributed as the silicon portion of airborne crustal component. Contributions are slightly higher during weekdays, possibly due to traffic forcing up road and crustal dust. Springtime contributions are also slightly higher. Some silicon may be also due to primary power plant emissions.

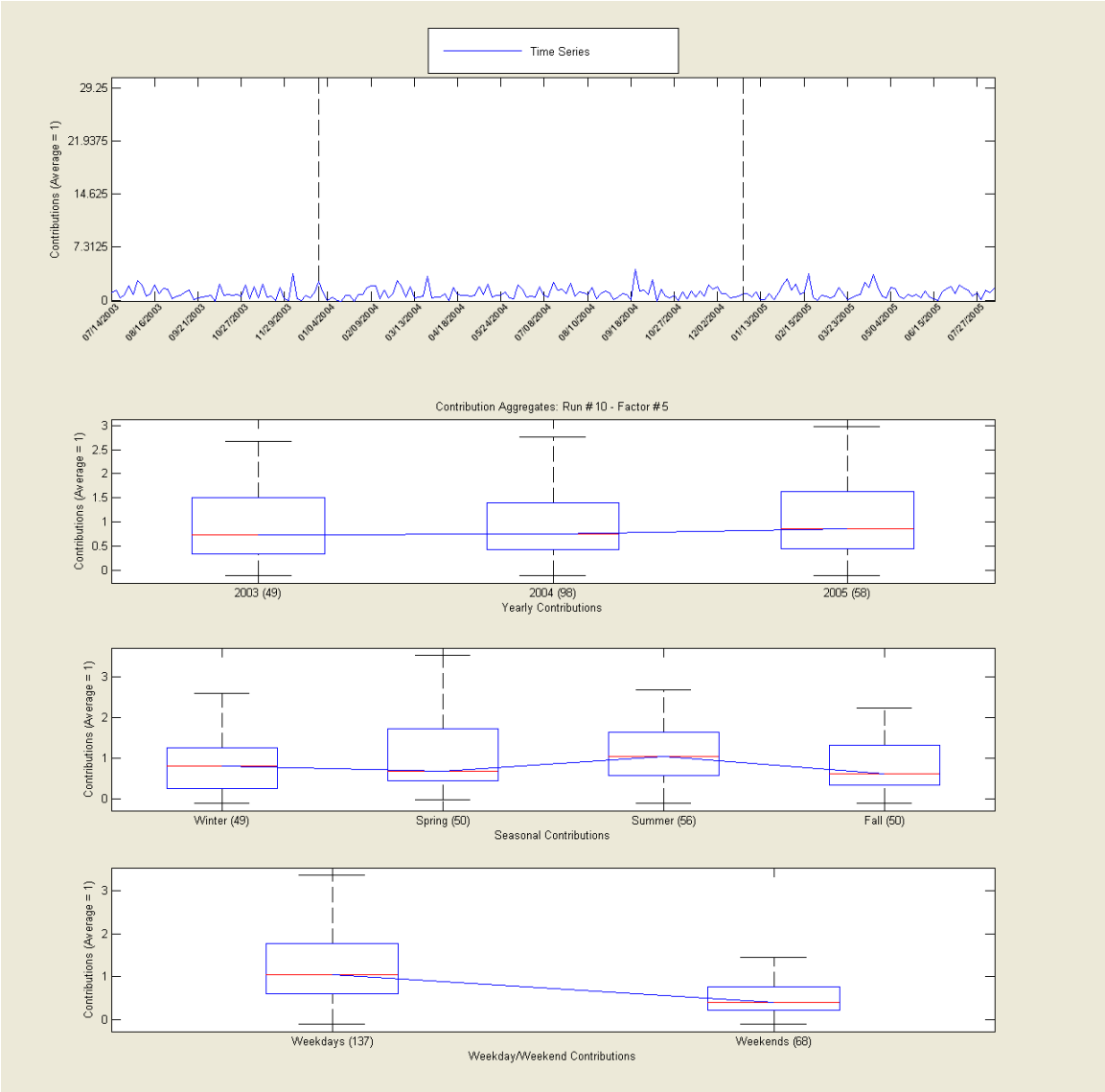



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 4
Contributions (Average = 1)
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Contributions (Average = 1)
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 5: Diesel Vehicles + Miscellaneous Road Dust

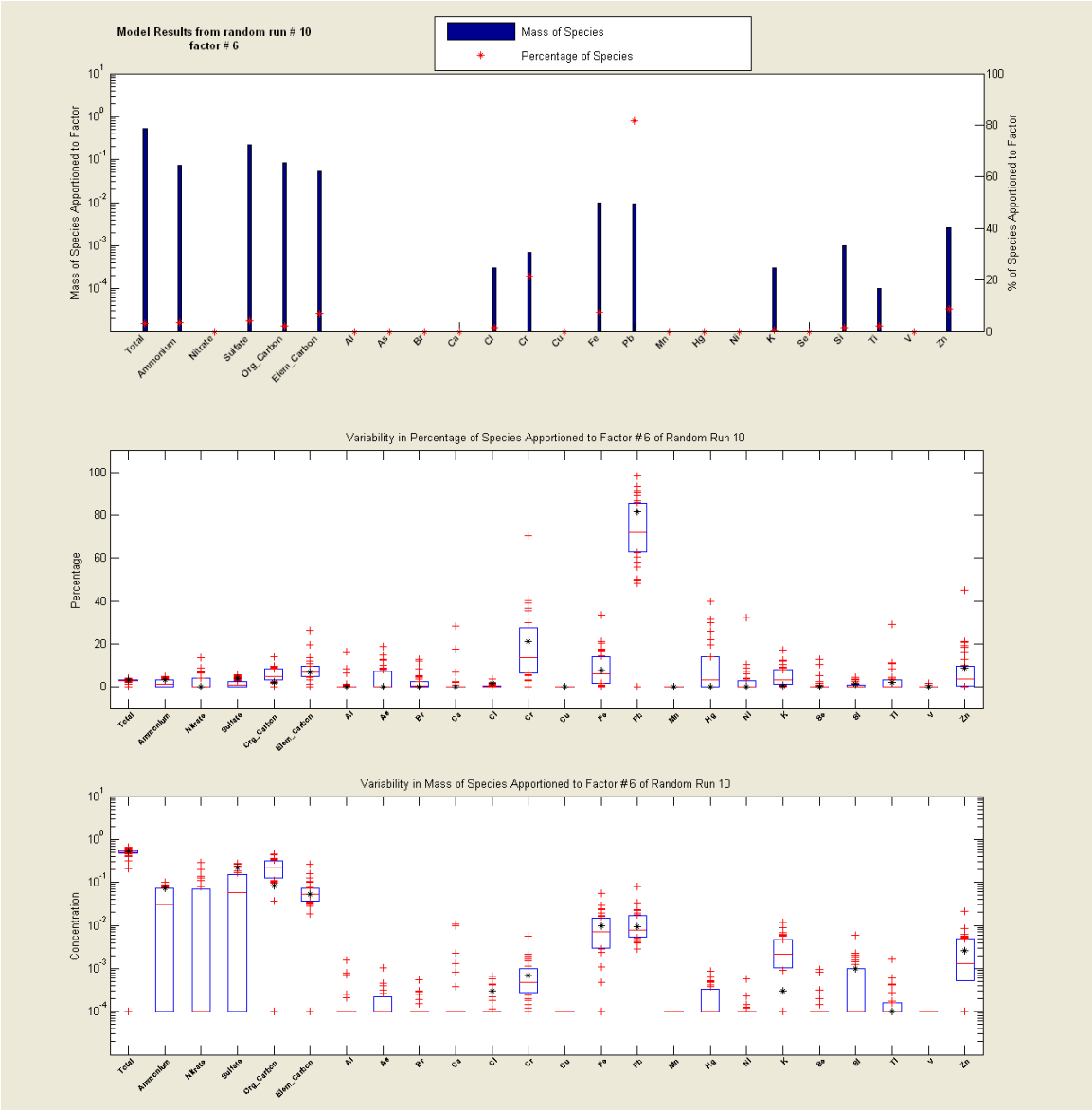
Factor 5 contains a large percentage of elemental carbon with high weekday contributions. Large percentages of copper and nickel are also present, along with crustal iron and titanium. These trace elements have been grouped as miscellaneous road dust.

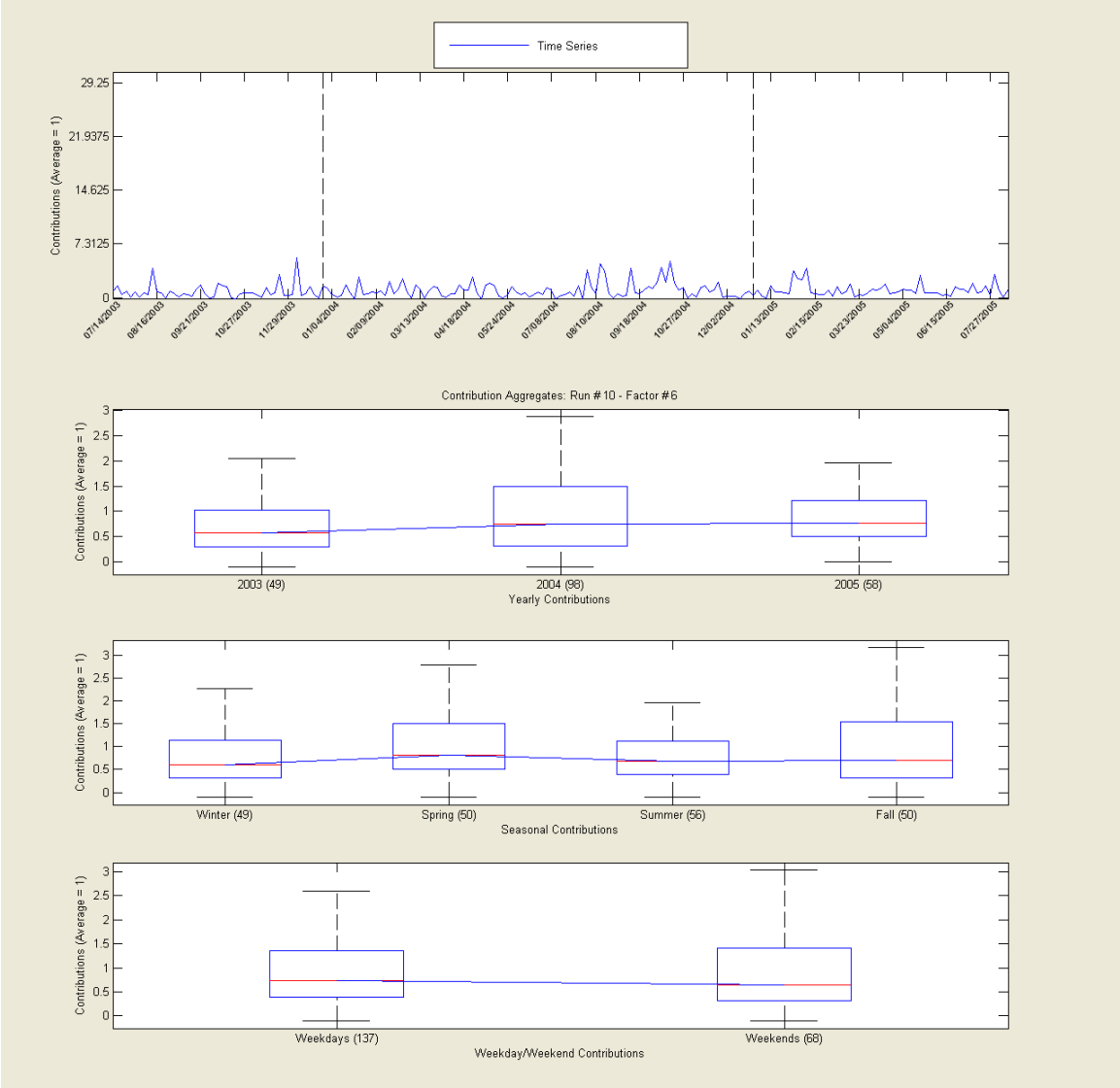



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 5
Contributions (Average = 1)
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Contributions (Average = 1)
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 6: Incinerators

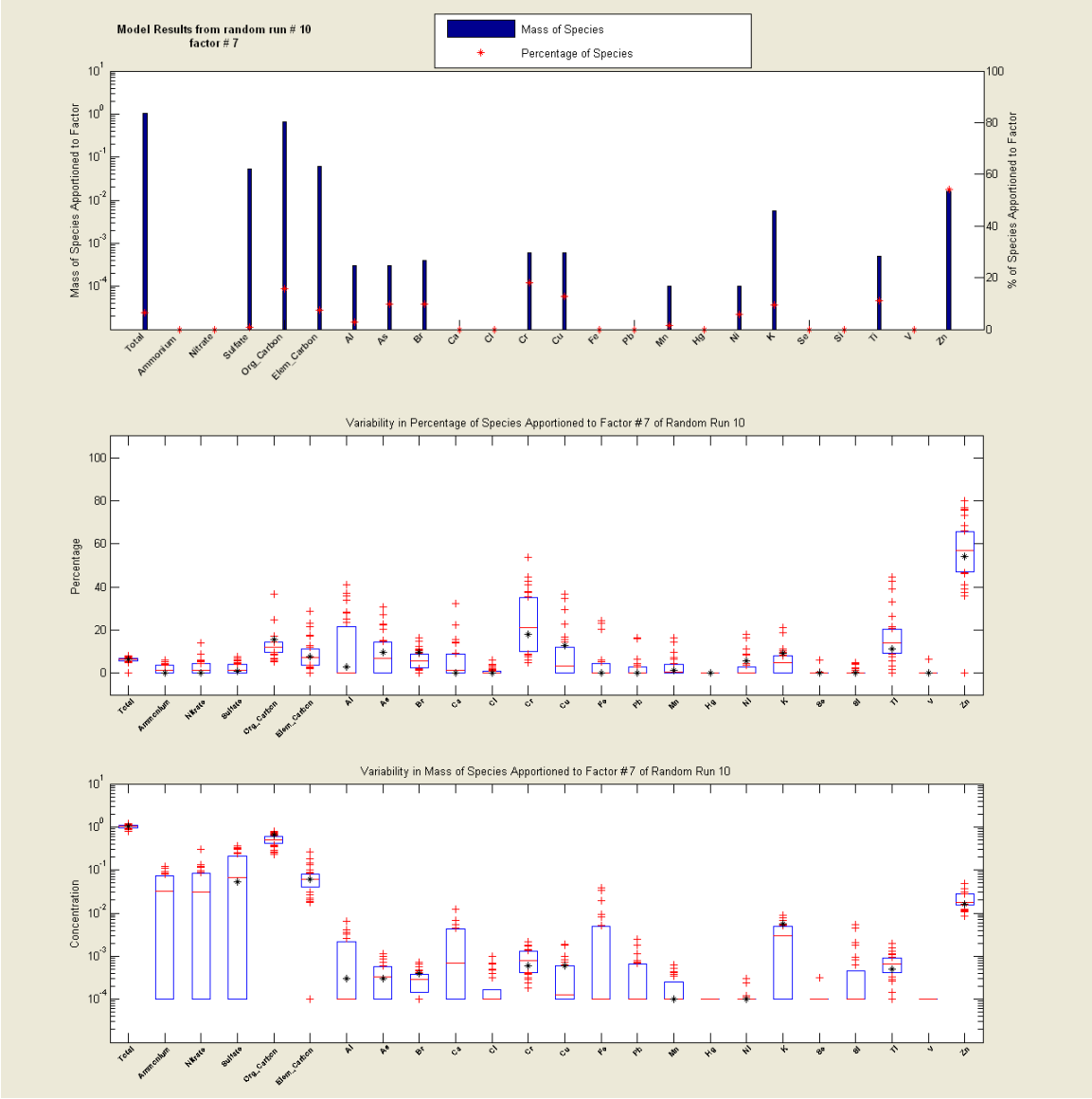
Factor 6 has a high percentage of lead, along with significant percentages of carbons and zinc. The carbon ratios are different from most vehicle profiles, and there is little variation between weekday/weekend contributions. Source factors with these characteristics are associated with municipal waste incinerators and sewage sludge incinerators.

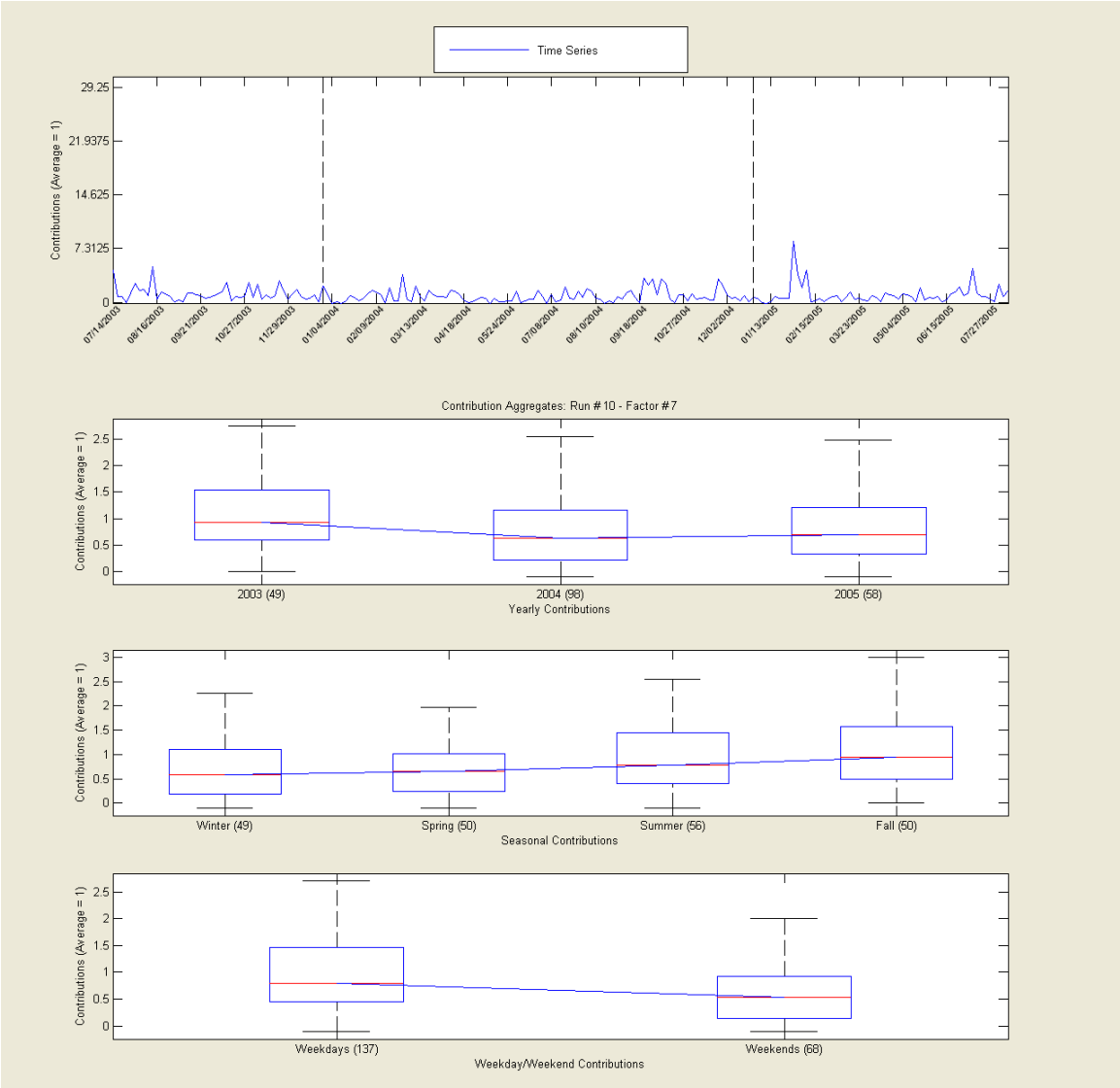



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 6
Contributions (Average = 1)
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 7: Gasoline Vehicles + Tire Wear

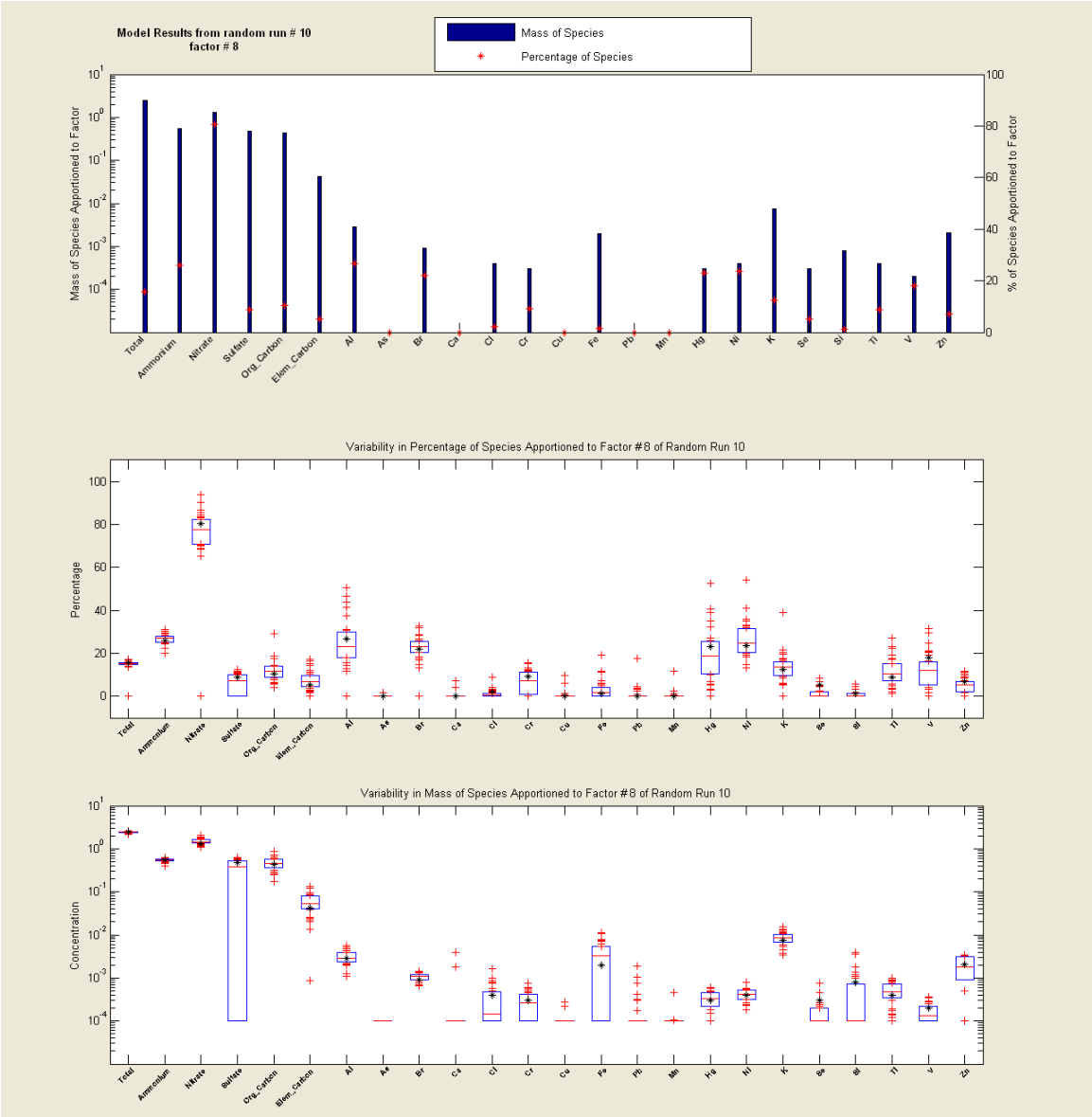
Factor 7 has high percentages of organic and elemental carbons and zinc, showing high contributions on weekdays. The carbon ratio is indicative of gasoline vehicles, and zinc is associated with tire wear from vehicles. Minor concentrations of other trace elements are also present.

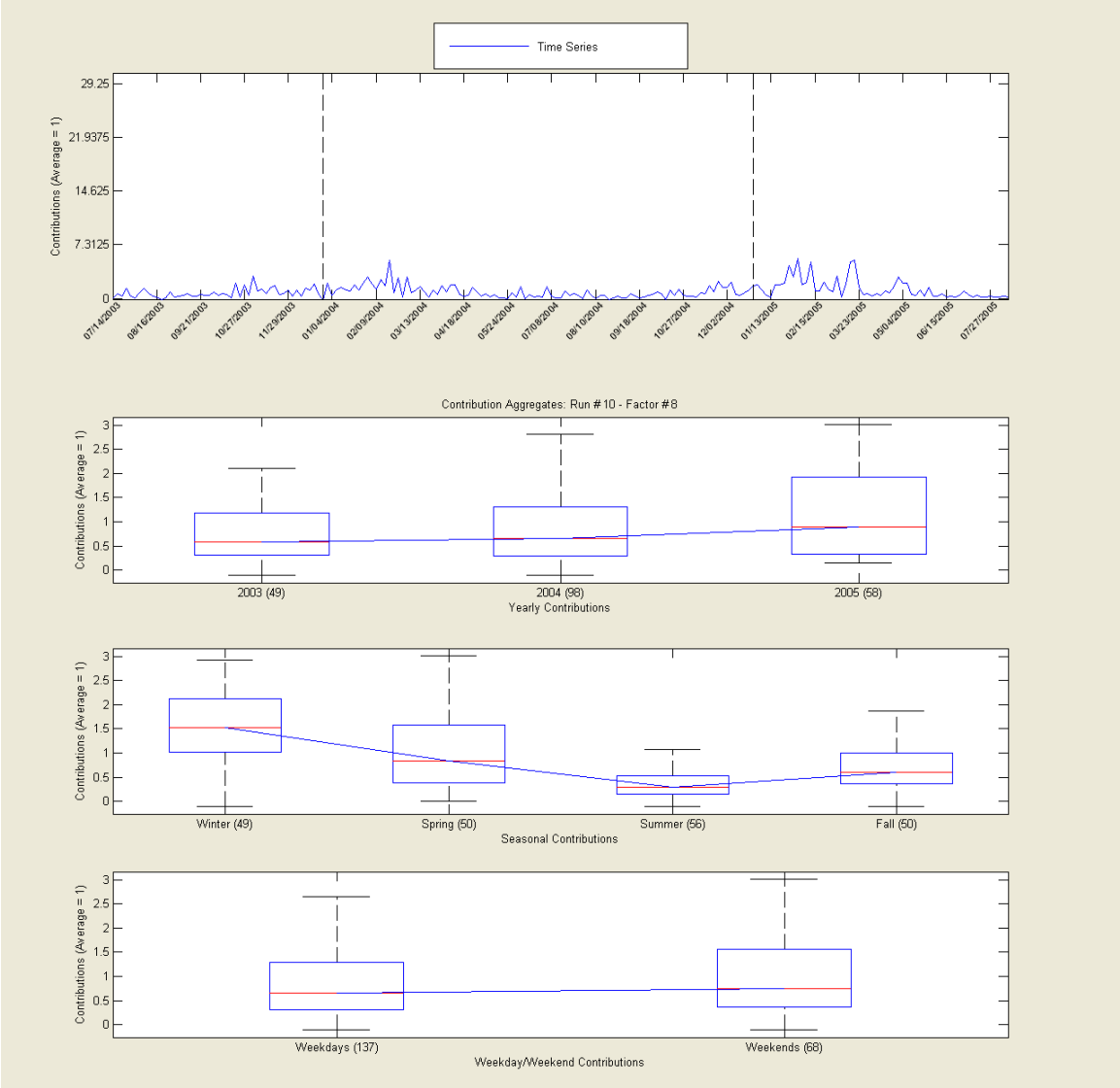



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 7
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Contributions (Average = 1)
3
2.5
2
1.5
1
0.5
0
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 8: Secondary Ammonium Nitrate

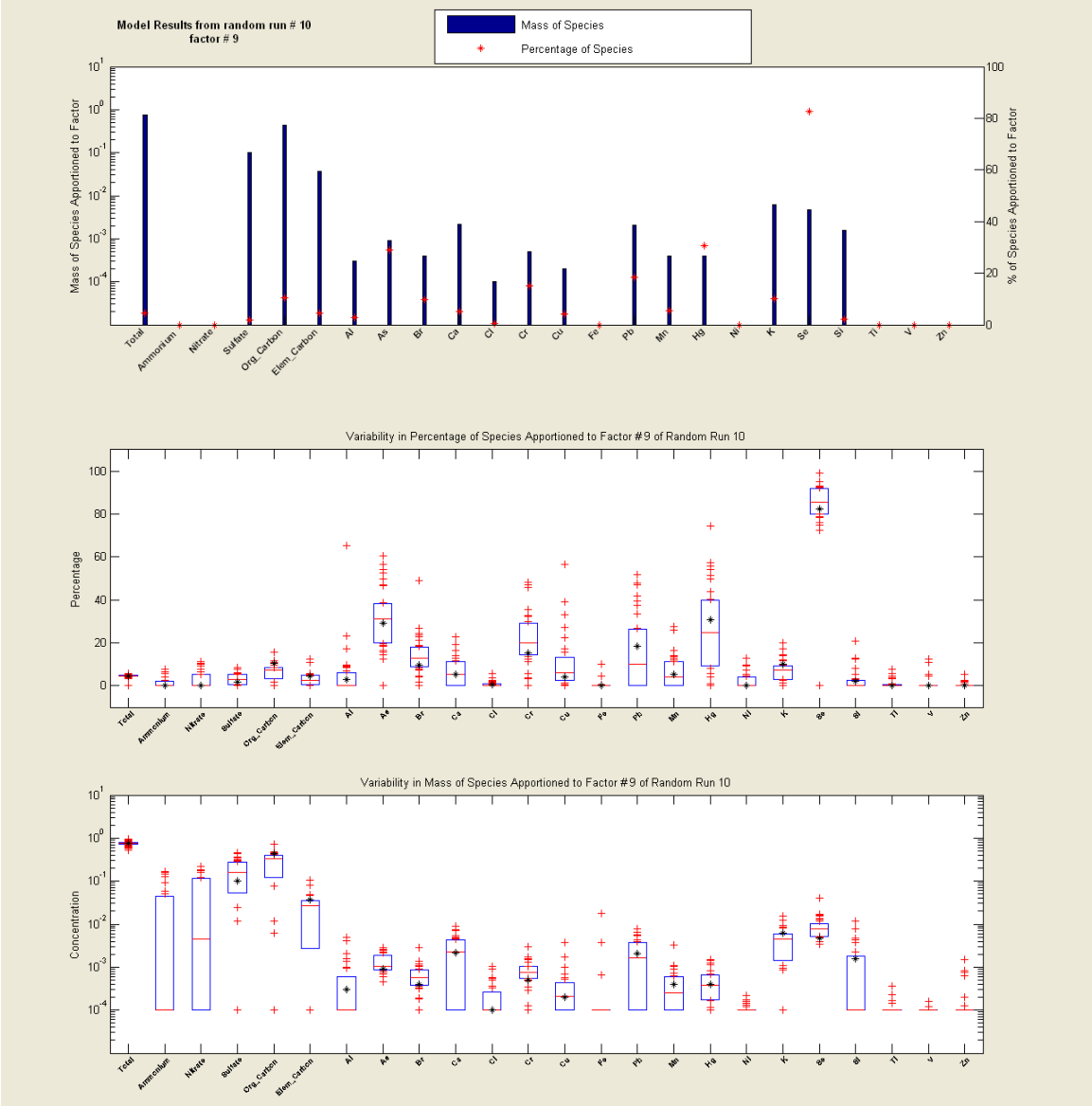
Factor 8 is the majority of secondary ammonium nitrate at the monitor, dominant in cold weather. Nitrate is a secondary species created by upwind NOx sources such as fossil fuel-fired boilers. Other species such as carbons and aluminum are grouped with this factor as well, perhaps representing cold-weather fractions of their total contribution.

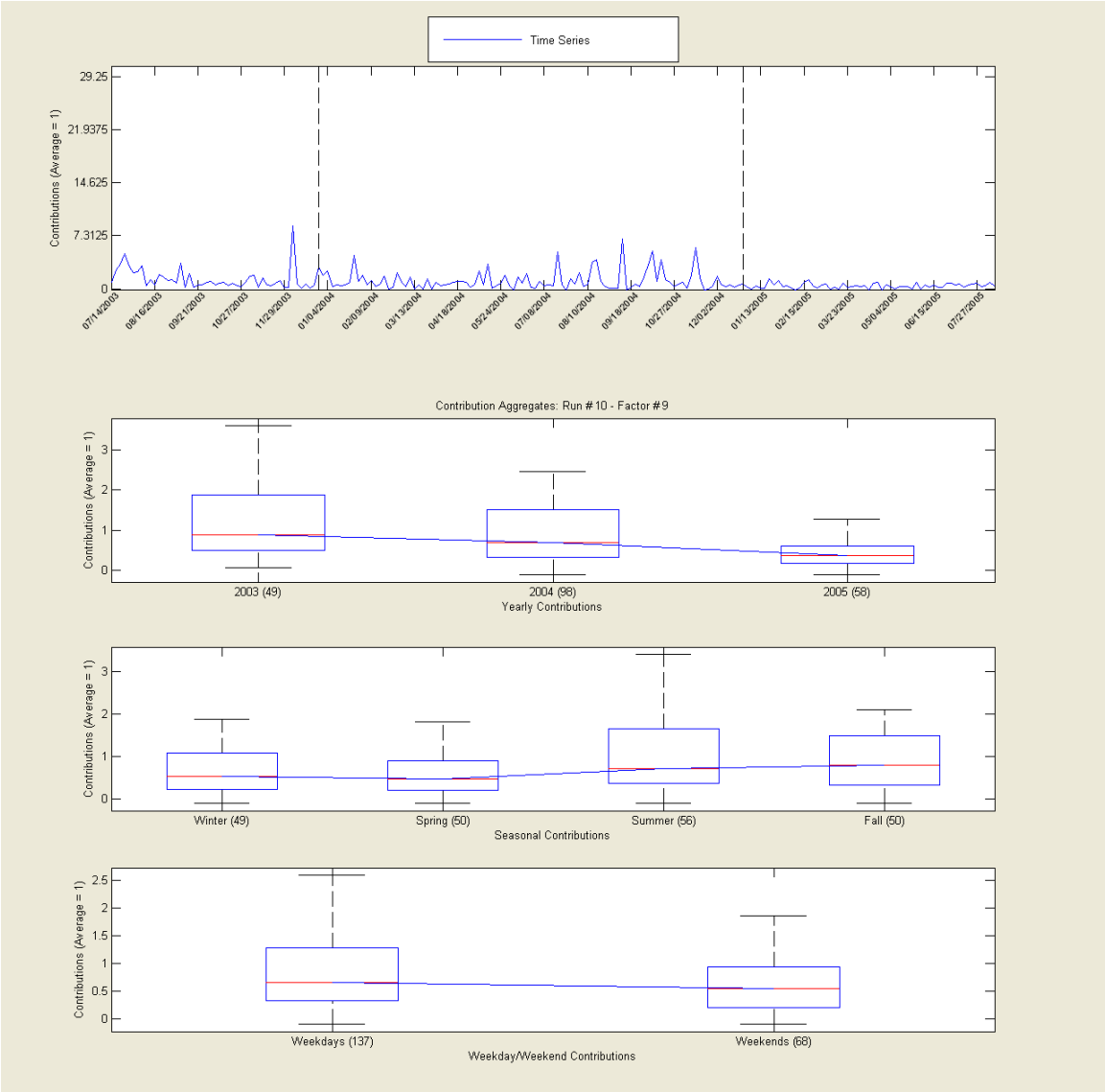



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 8
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 9: Gasoline Vehicles + Selenium-Rich Industrial

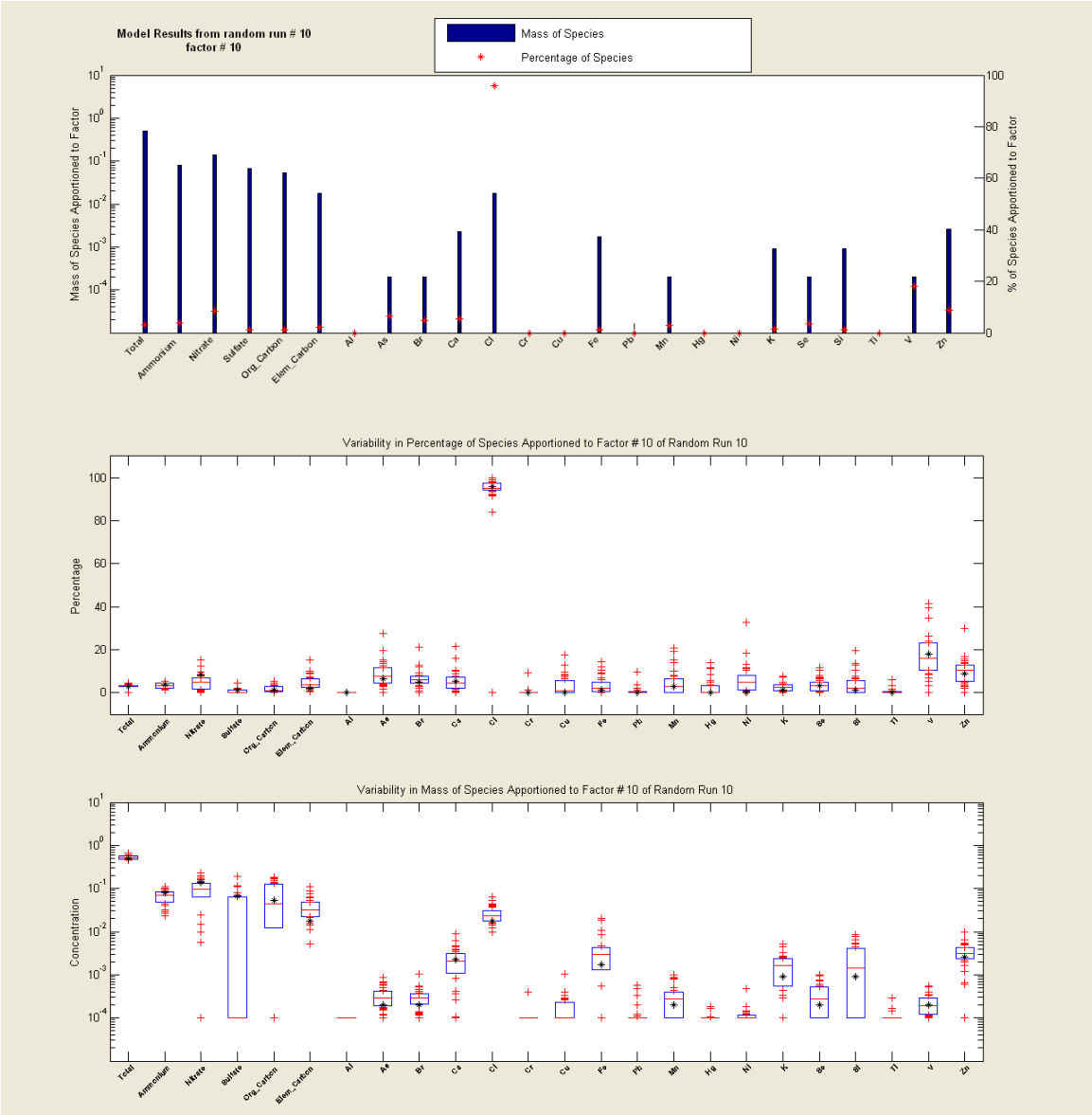
Factor 9 shows strong weekday organic and elemental carbon concentrations, indicating light-duty gasoline vehicle emissions. Also peaking with this factor is selenium, perhaps originating from the same area as the vehicle emissions. Selenium is sometimes associated with primary coal-fired boiler emissions but is also present in some glass manufacturing emissions. Total factor emissions decreased noticeably in 2005.

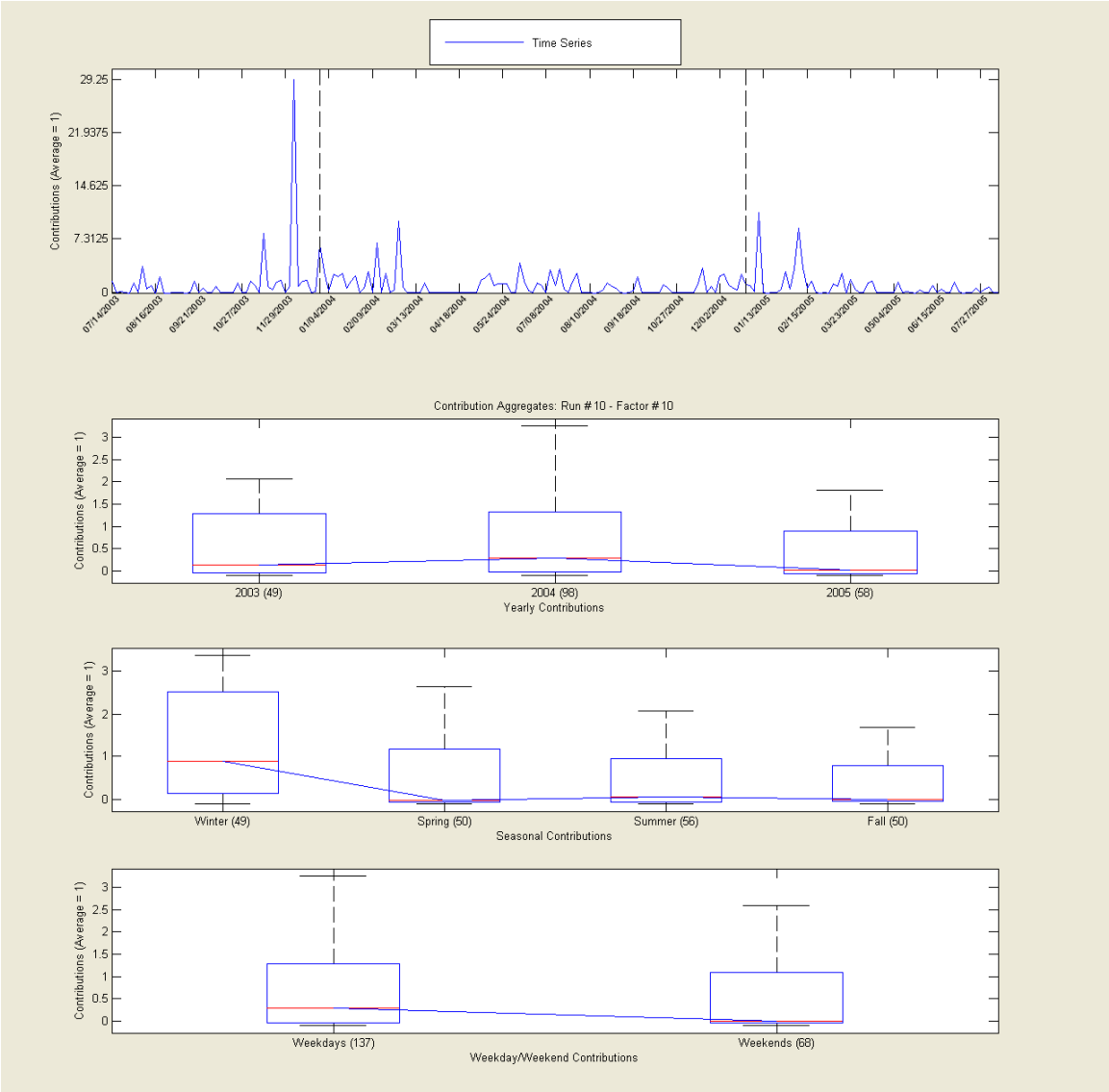



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/04/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/19/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run #10 - Factor #9
Contributions (Average = 1)
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 10: Road Dust (Road Salt-Rich)

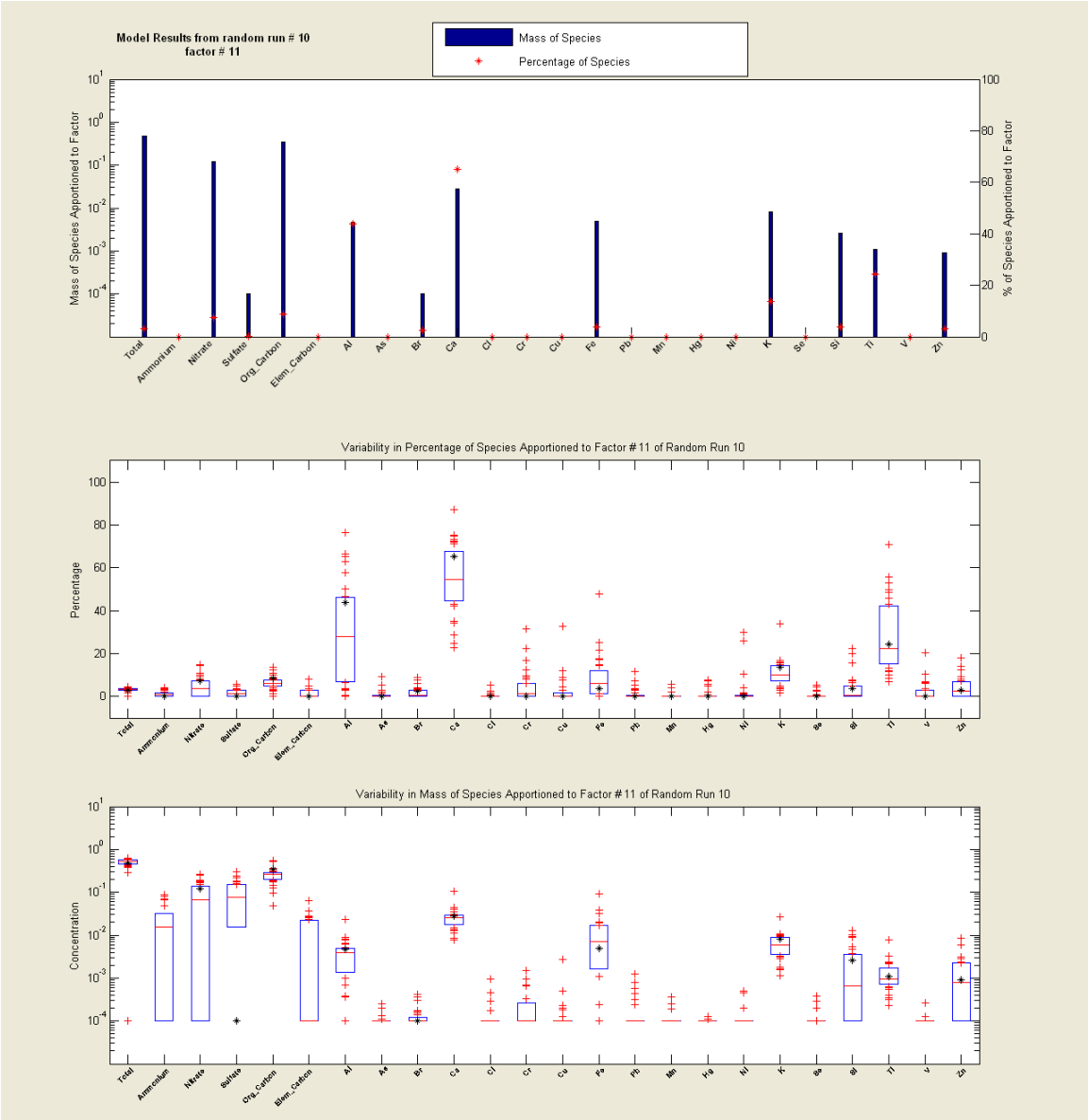
Factor 10 contributes almost all of the chlorine at Lawrenceville. Since it peaks on winter weekdays, it is likely due to airborne road salt along with other miscellaneous road dust compounds.

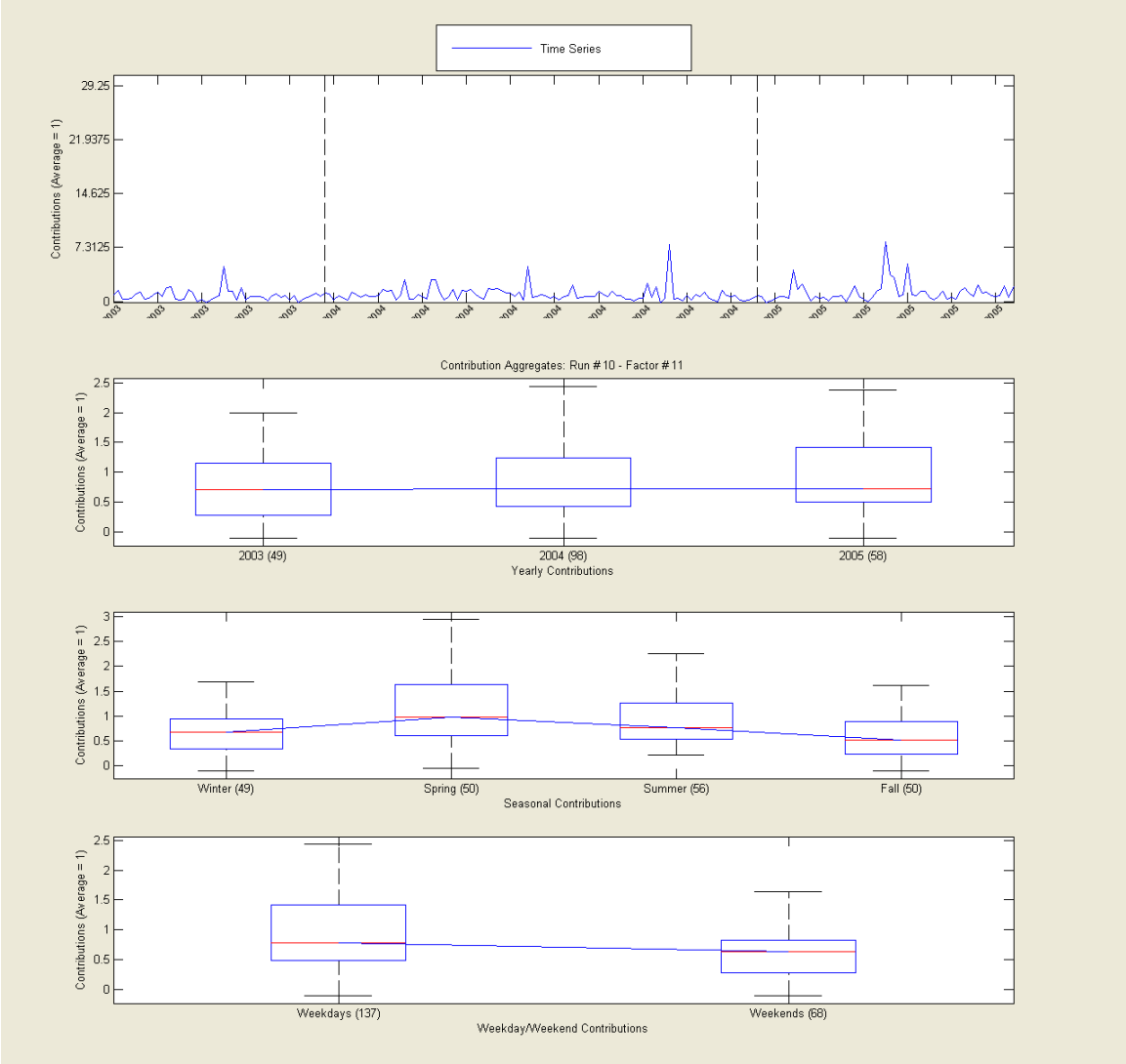



Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
07/14/2003
08/16/2003
09/21/2003
10/27/2003
11/29/2003
01/06/2004
02/09/2004
03/13/2004
04/18/2004
05/24/2004
07/08/2004
08/10/2004
09/18/2004
10/27/2004
12/02/2004
01/13/2005
02/15/2005
03/23/2005
05/04/2005
06/15/2005
07/27/2005
Contribution Aggregates: Run # 10 - Factor # 10
Contributions (Average = 1)
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

Lawrenceville Source Factor 11: Airborne Crustal (Other)

Like Factor 4 (silicon-rich crustal), Factor 11 is composed of crustal elements and is higher on weekdays and in spring. Aluminum, calcium, and titanium show the highest percentages for this factor.




Time Series
Contributions (Average = 1)
29.25
21.9375
14.625
7.3125
0
Contribution Aggregates: Run # 10 - Factor # 11
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
2003 (49)
2004 (98)
2005 (58)
Yearly Contributions
Contributions (Average = 1)
3
2.5
2
1.5
1
0.5
0
Winter (49)
Spring (50)
Summer (56)
Fall (50)
Seasonal Contributions
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
Weekdays (137)
Weekends (68)
Weekday/Weekend Contributions

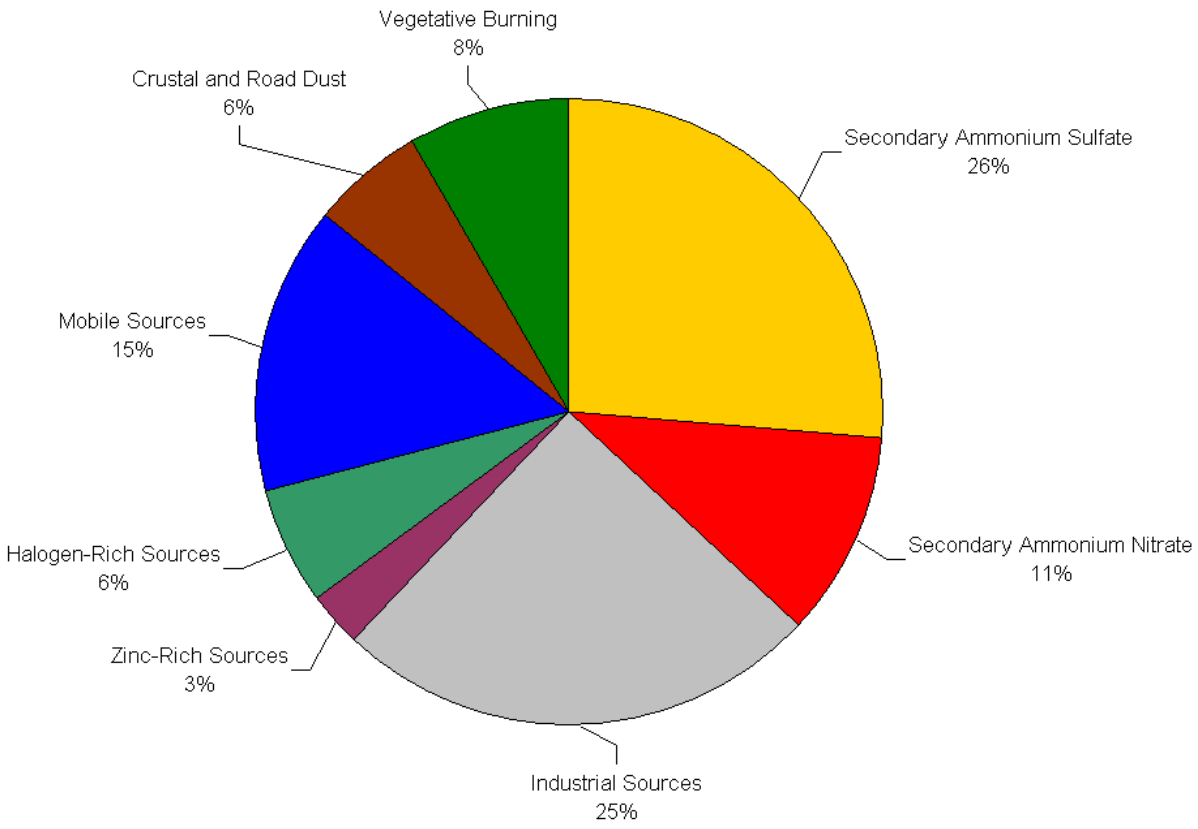
5. Modeled Results: Liberty

A total of 91 Liberty samples were input into the model. The best model runs were able to resolve 12 source factors. The following trace elements were down weighted in the model runs: Al, As, Cr, Hg, Mn, Ni, Ti, and V.

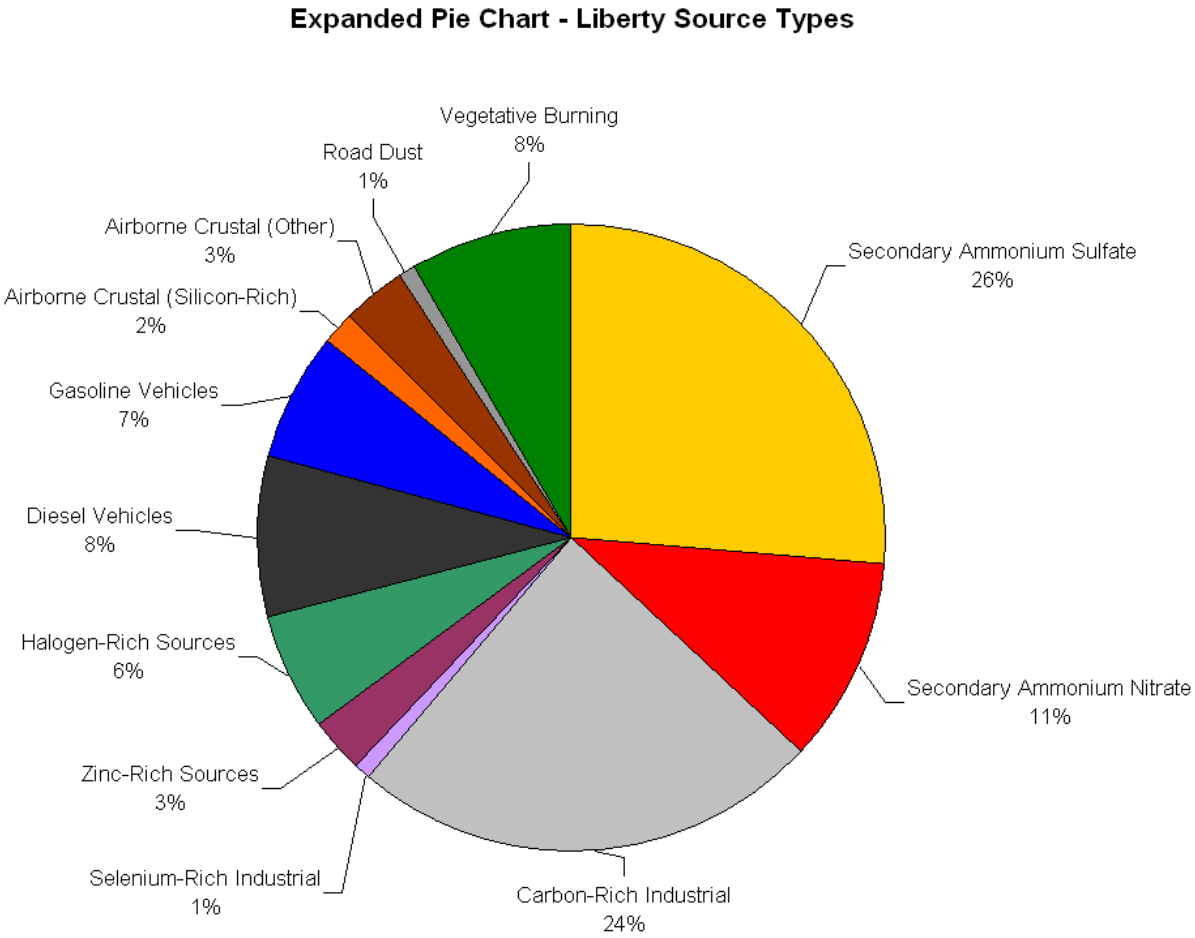
In addition to Fourth of July samples removed on account of trace element outliers, the samples taken on 2/3/2005 and 5/10/2005 were removed from the modeling. An exceptional event was identified on these dates in which crustal elements (geological dust, or airborne soil) were higher than the norm.

Liberty results revealed many of the same source factors that were evident at Lawrenceville, while also indicating additional sources specific to the Liberty area. A simplified pie chart of the best-guess source types (by percentage of summed concentrations) is shown below.

Simplified Pie Chart - Liberty Source Types



An expanded pie chart of the source types is also shown below.



Liberty source factor profiles and associated source types are given in the table below. Species concentrations that were considered to be indicators of the specific source types are shown in bold.

	Secondary Sulfate/Nitrate		Industrial Sources		Zinc-Rich Sources	Halogen-Rich Sources	Mobile Sources		Crustal and Road Dust			Vegetative Burning
	Secondary Ammonium Sulfate	Secondary Ammonium Nitrate	Carbon-Rich Industrial	Selenium-Rich Industrial	Zinc-Rich Sources	Halogen-Rich Sources	Diesel Vehicles	Gasoline Vehicles	Airborne Crustal (Silicon-Rich)	Airborne Crustal (Other)	Road Dust	Vegetative Burning
Source Factor	3	11	2	8	7	6	4	1	5	10	9	12
Total	4.8529	1.4586	4.7404	0.2820	0.0000	0.9354	1.1247	1.4644	0.3113	0.5434	0.6755	2.0641
Ammonium	**0.8185**	**0.4406**	0.3981	0.0341	0.0672	0.1845	0.1705	0.1142	0.0474	0	0	0
Nitrate	0.1455	**0.9814**	0	0.0040	0	0.0369	0.1301	0	0	0	0	0.0872
Sulfate	**2.8271**	0.3140	0.0268	0.0491	0.3188	0.2365	0.3232	0.4012	0	0.1023	0.0410	0.2162
Org_Carbon	0.4784	0	**2.0157**	0.0205	0.0526	0.2387	0.3288	**0.5657**	0.1092	0.3292	0.0621	**0.9952**
Elem_Carbon	0.0508	0	**1.5418**	0	0	0.0340	**0.3706**	0	0.0383	0.0379	0	0.0421
Al	0.0039	0	0	0	0	0	0	0	0.0006	**0.0031**	0.0010	0
As	0.0002	0	**0.0030**	0	0.0013	0	0	0	0.0002	0	0	0.0004
Br	0	0.0007	**0.0057**	0.0002	0.0004	**0.0020**	0	0	0	0.0004	0.0006	0
Ca	0	0	0	0.0008	0.0003	0.0022	0	0.0035	0.0030	**0.0244**	0	0
Cl	0	0.0024	0	0.0036	0	**0.2813**	0.0001	0	0.0017	0	0.0016	0.0082
Cr	0.0001	0	0	0	0	0	0.0002	0	0	0.0004	0.0009	0.0004
Cu	0	0	0	0	0	0	0.0004	0.0044	0	0.0002	0	0
Fe	0.0028	0	0.0099	0.0006	0.0029	0	0	0.0156	0.0017	0.0048	**0.0384**	0
Pb	0.0002	0	0	0.001	0	0.0024	0.0095	0.0004	0	0	0	0.0004
Mn	0	0.0004	0	0	0.0007	0	0	0.0001	0	0	0.0012	0.0003
Hg	0	0.0001	0	0	0.0002	0.0006	0	0.0017	0.0005	0	0	0
Ni	0.0001	0	0	0	0	0.0001	0.0001	0	0	0	0.0009	0.0002
K	0	0.0041	0	0.0003	0.0035	0.0020	0	0.0045	0.0031	**0.0129**	0.0005	**0.0226**
Se	0.0002	0	0.0009	**0.0079**	0.0003	0	0.0007	0	0	0.0002	0	0.0004
Si	0	0	0	0	0	0.0090	0.0084	0	**0.0728**	0	0	0
Ti	0.0001	0.0001	0	0.0002	0	0.0001	0	0.0003	0.0001	**0.0019**	0.0005	0
V	0.0002	0.0002	0	0.0001	0	0	0	0.0004	0.0001	0	0.0001	0
Zn	0	0.0012	0.0005	0	**0.0144**	0.0013	0.0098	0	0	0.0004	0	0
SUM (exc. total)	*4.3281*	*1.7452*	*4.0024*	*0.1224*	*0.4626*	*1.0316*	*1.3524*	*1.1120*	*0.2787*	*0.5181*	*0.1488*	*1.3736*

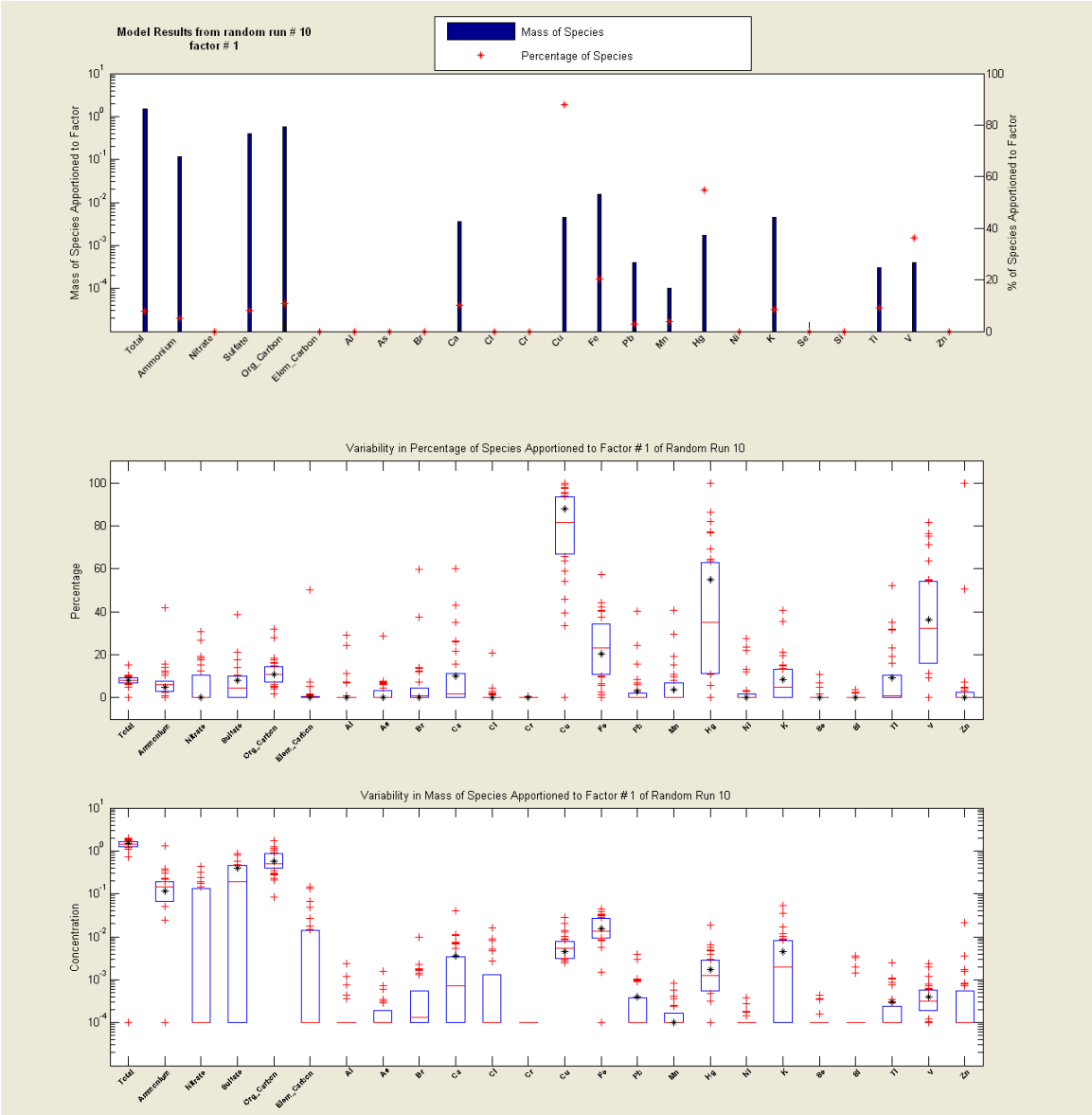
Analysis and graphical results for each factor are given on subsequent pages. Graphical results are copied directly from the model output and include the following for each factor:

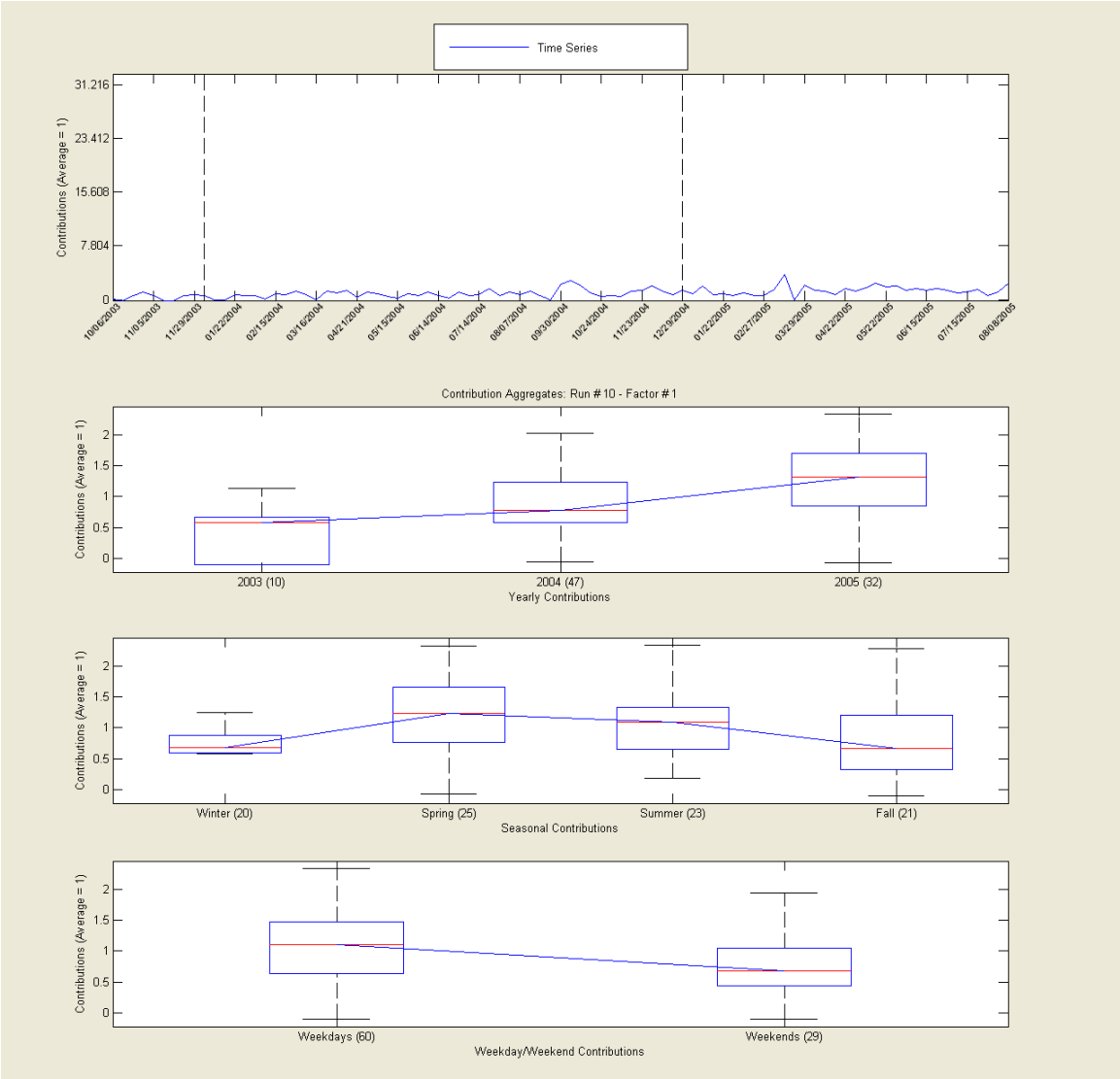
- Concentration by value and percentage of total for each species
- Variability (bootstrapping) for each concentration and percentage
- Time series plot by overall factor concentration
- Contribution aggregates according to season and day of the week

Note: Factors and runs are generated randomly by PMF and are not ranked according to any one species.

Liberty Source Factor 1: Gasoline Vehicles

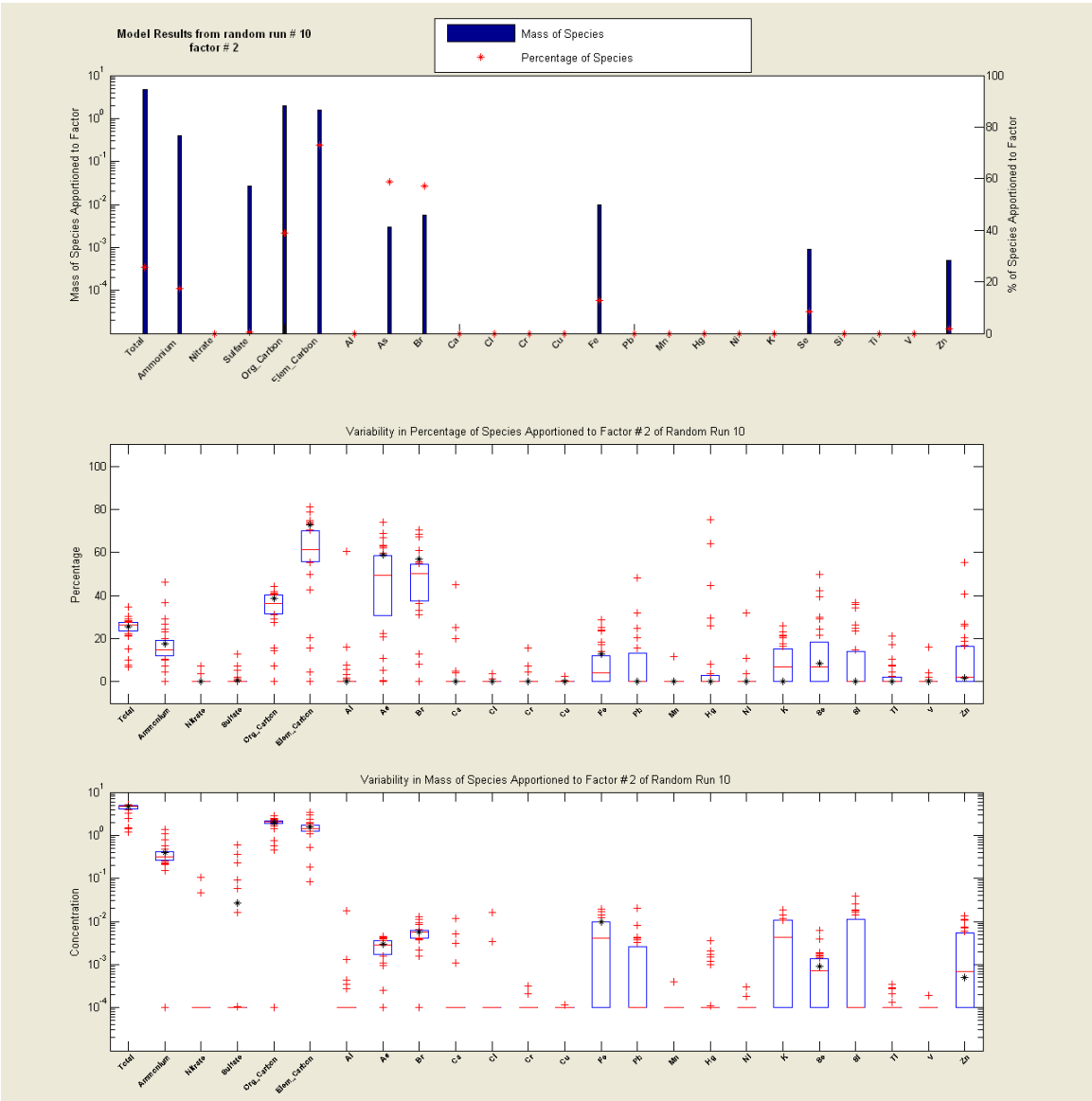
Factor 1 is high in weekday organic carbon, indicating light-duty gasoline vehicle emissions. Copper, mercury, vanadium, and copper also have high percentages with this factor.

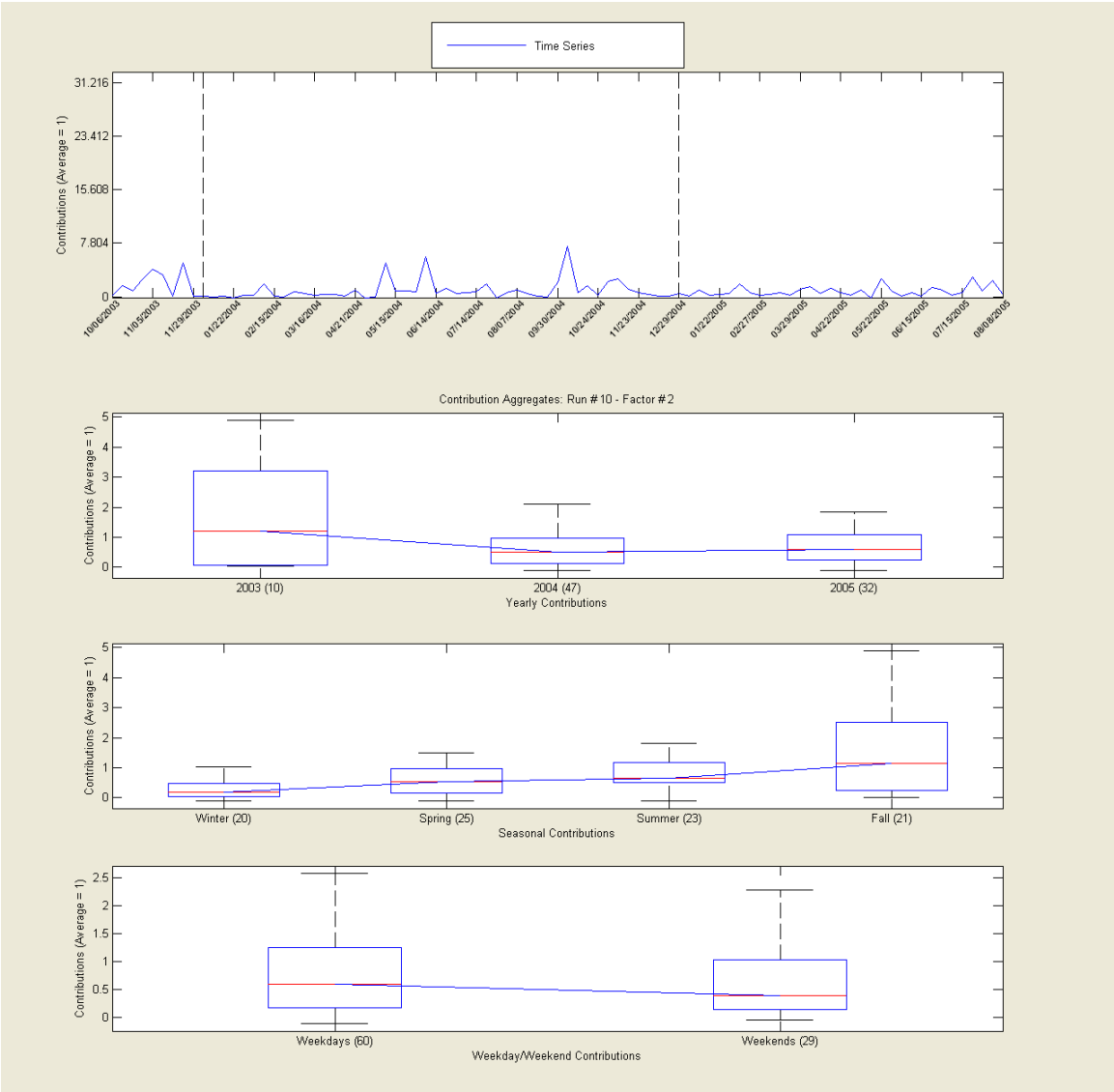



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 1
Contributions (Average = 1)
2
1.5
1
0.5
0
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 2: Carbon-Rich Industrial

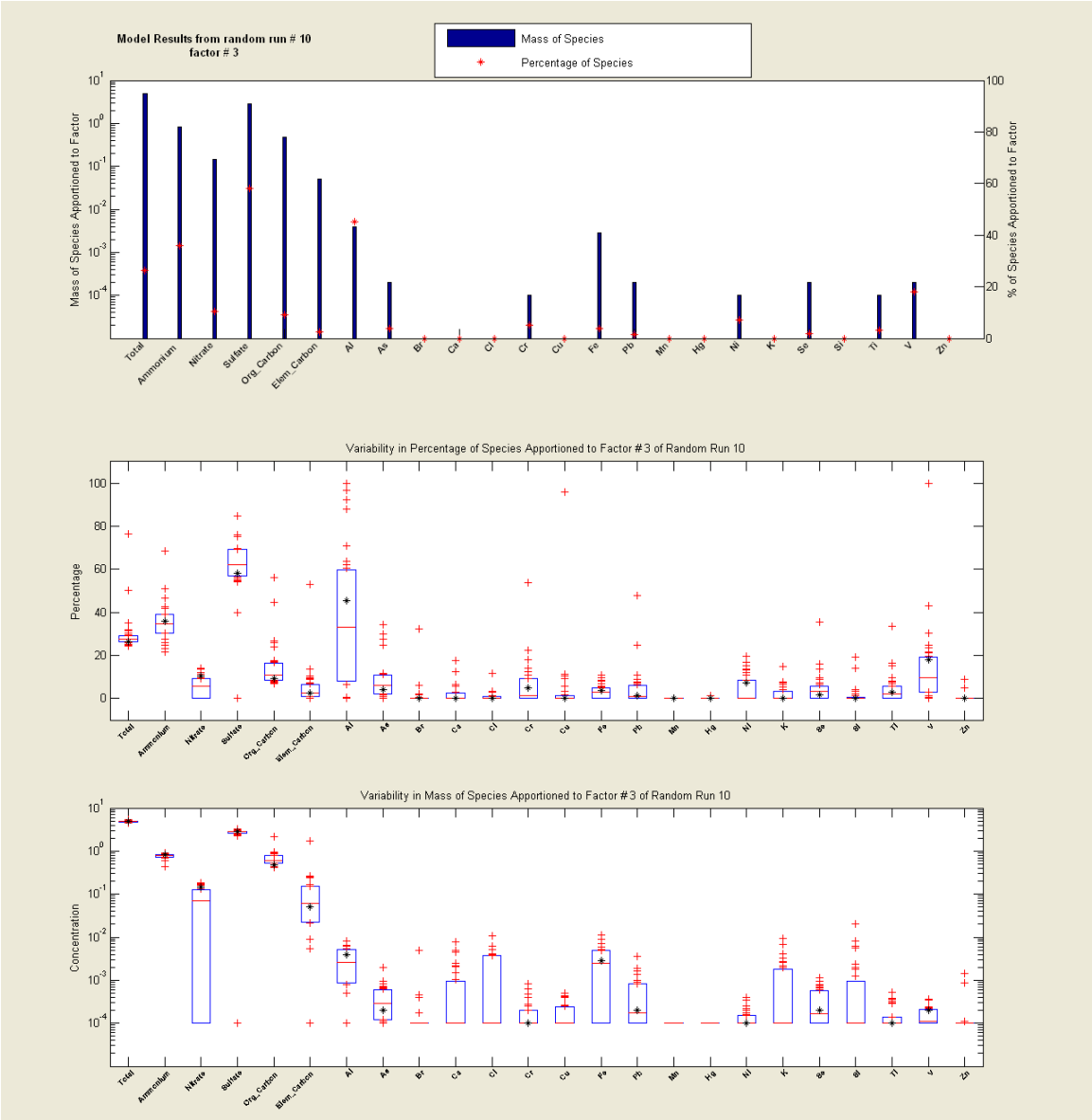
Factor 2 contains high percentages of elemental and organic carbon, as well as noticeable percentages of arsenic, bromine, and ammonium. Contributions are slightly higher in fall and on weekdays, perhaps due to background mobile source emissions or secondary organic carbons. It is assumed that the majority of this factor represents a constant source, best classified as a carbon-rich industrial source or combination of sources.

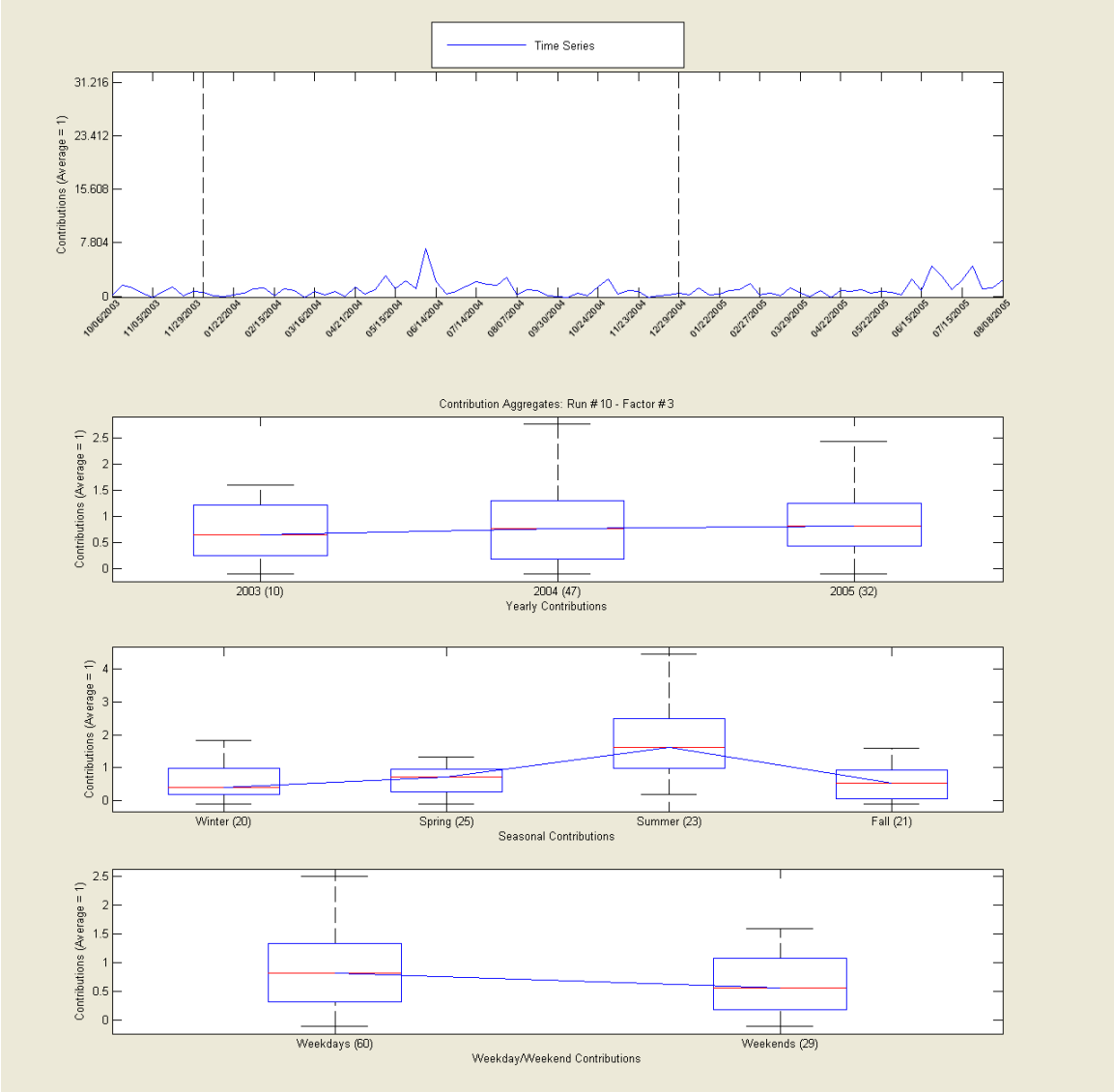



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/19/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run #10 - Factor #2
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 3: Secondary Ammonium Sulfate

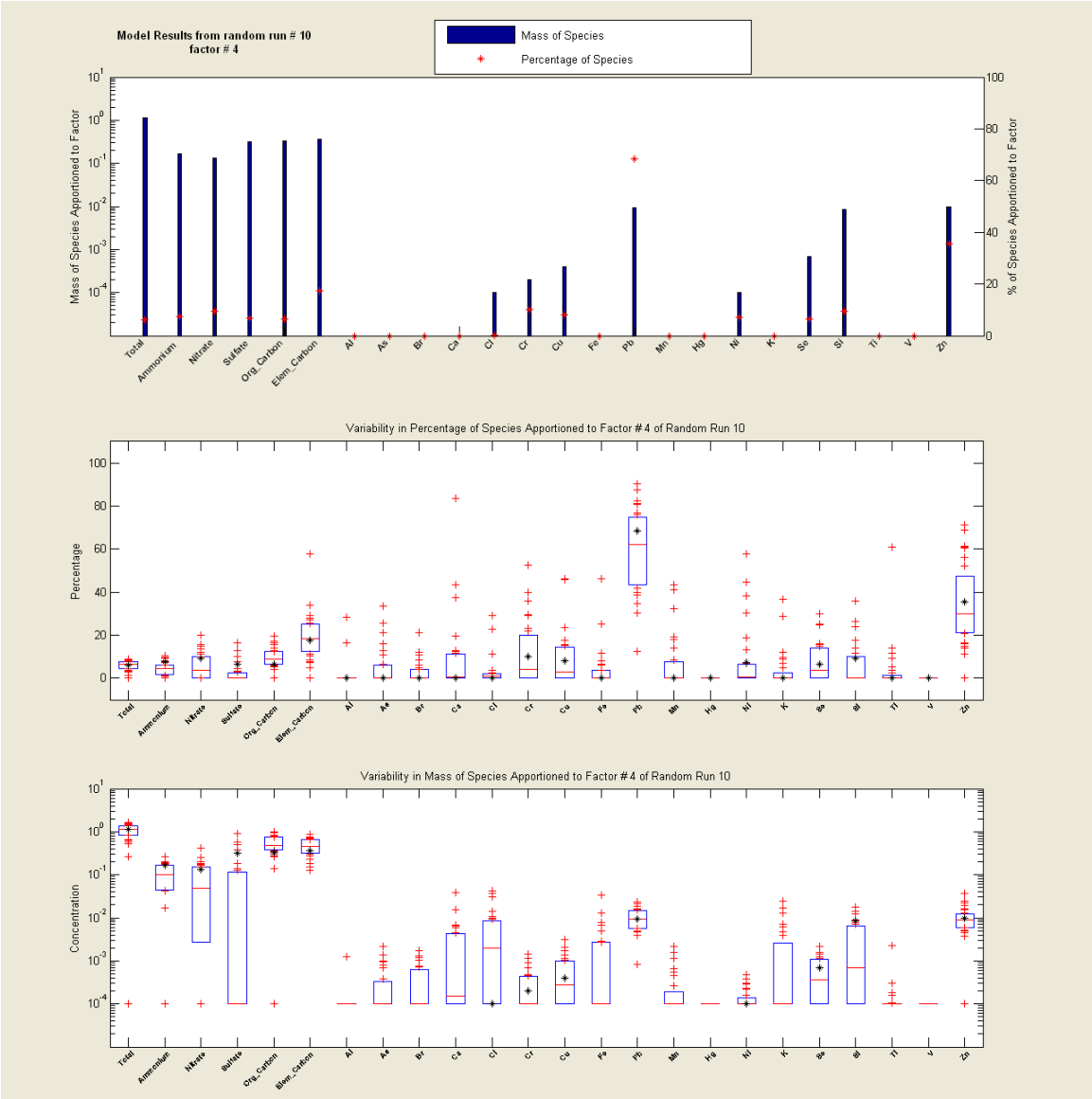
Factor 3 is comprises the majority of ammonium sulfate at Liberty. Contributions are highest in summer, when sulfate is most prevalent. Sulfate exists as secondary $PM_{2.5}$ in the Pittsburgh region, formed from upwind SO_2 sources such as coal-fired power plants. Factor 3 also contains some carbons and trace elements that are likely peaking concurrently with the sulfate. The organic carbon may be secondary in nature as well. Aluminum may be a result or either airborne crustal dust or primary coal-fired power plant emissions.

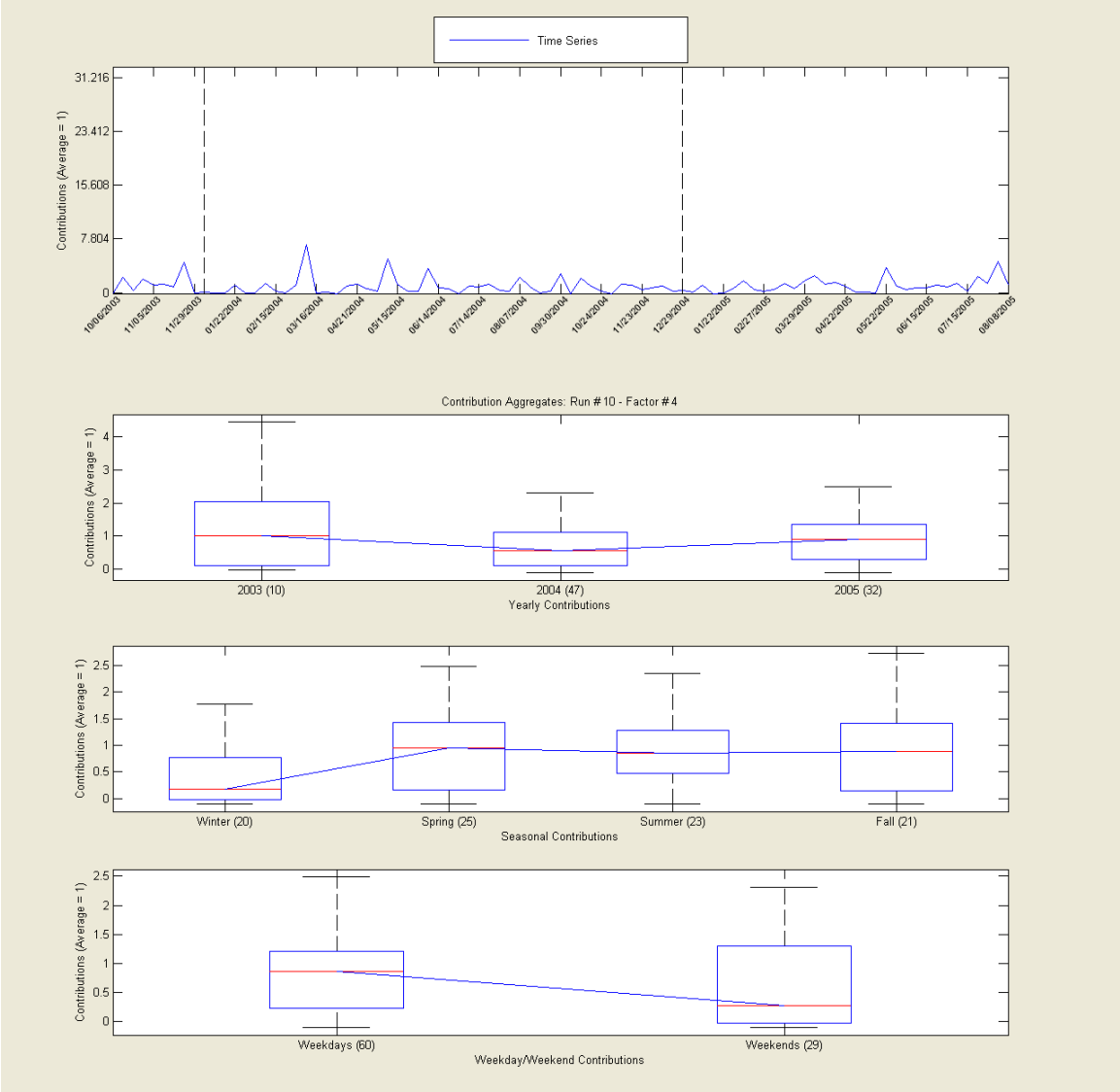



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 3
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
4
3
2
1
0
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 4: Diesel Vehicles

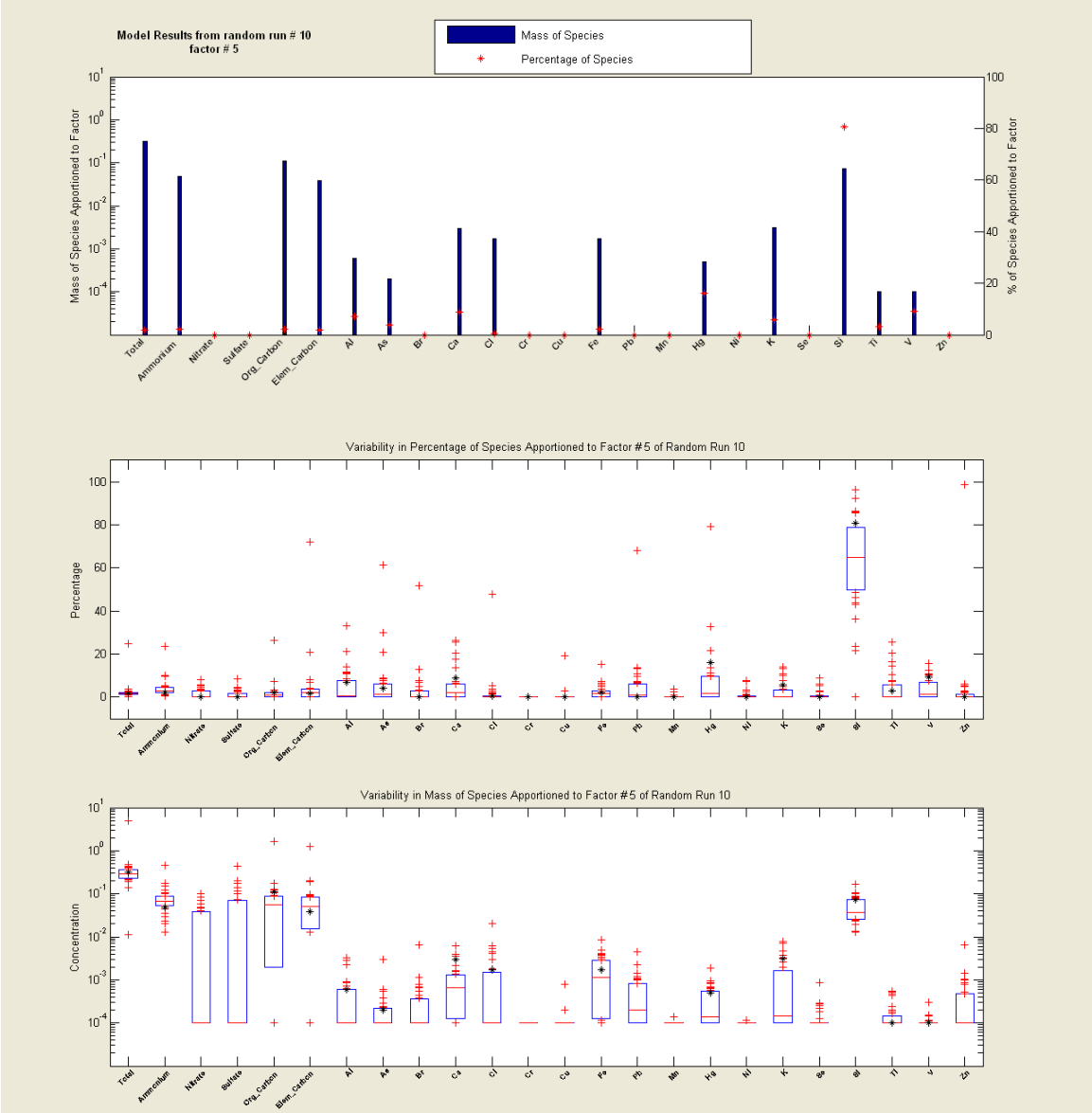
Factor 4 is assumed to be primarily diesel vehicle emissions due to the strong presence of weekday elemental carbon. High percentages of lead and zinc are also present, possibly due to tire wear, municipal waste incinerators, or other sources. Minor percentages of ammonium, nitrate, and sulfate are also included in this factor.

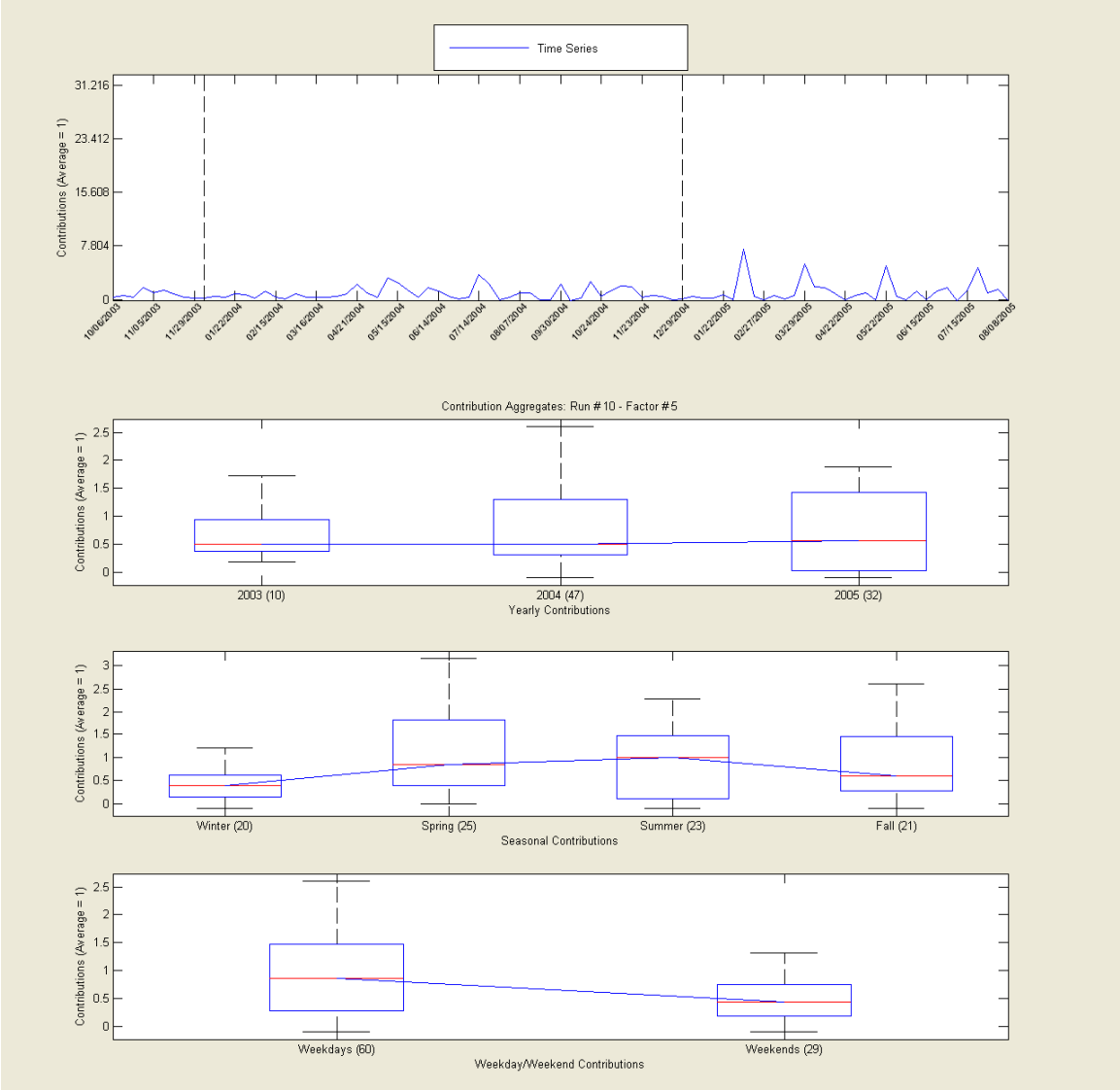



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 4
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 5: Airborne Crustal (Silicon-Rich)

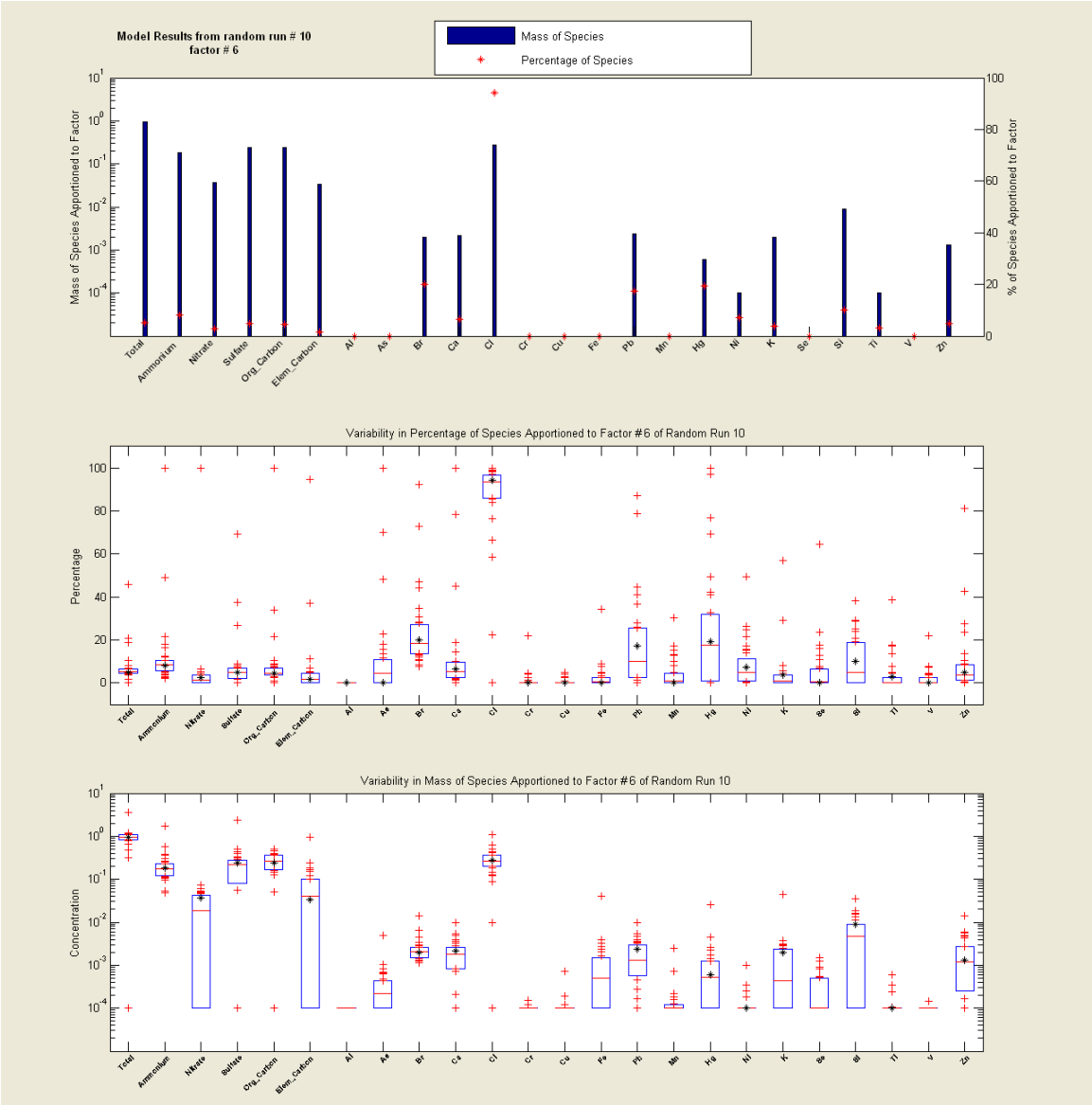
Crustal elements include aluminum, calcium, iron, silicon, and titanium. These elements are the basic make-up of fine airborne soil. Factor 5 is best attributed as the silicon portion of airborne crustal component. Contributions are slightly higher during weekdays, possibly due to traffic forcing up road and crustal dust. Springtime contributions are also slightly higher. Some silicon may be also due to primary power plant emissions.

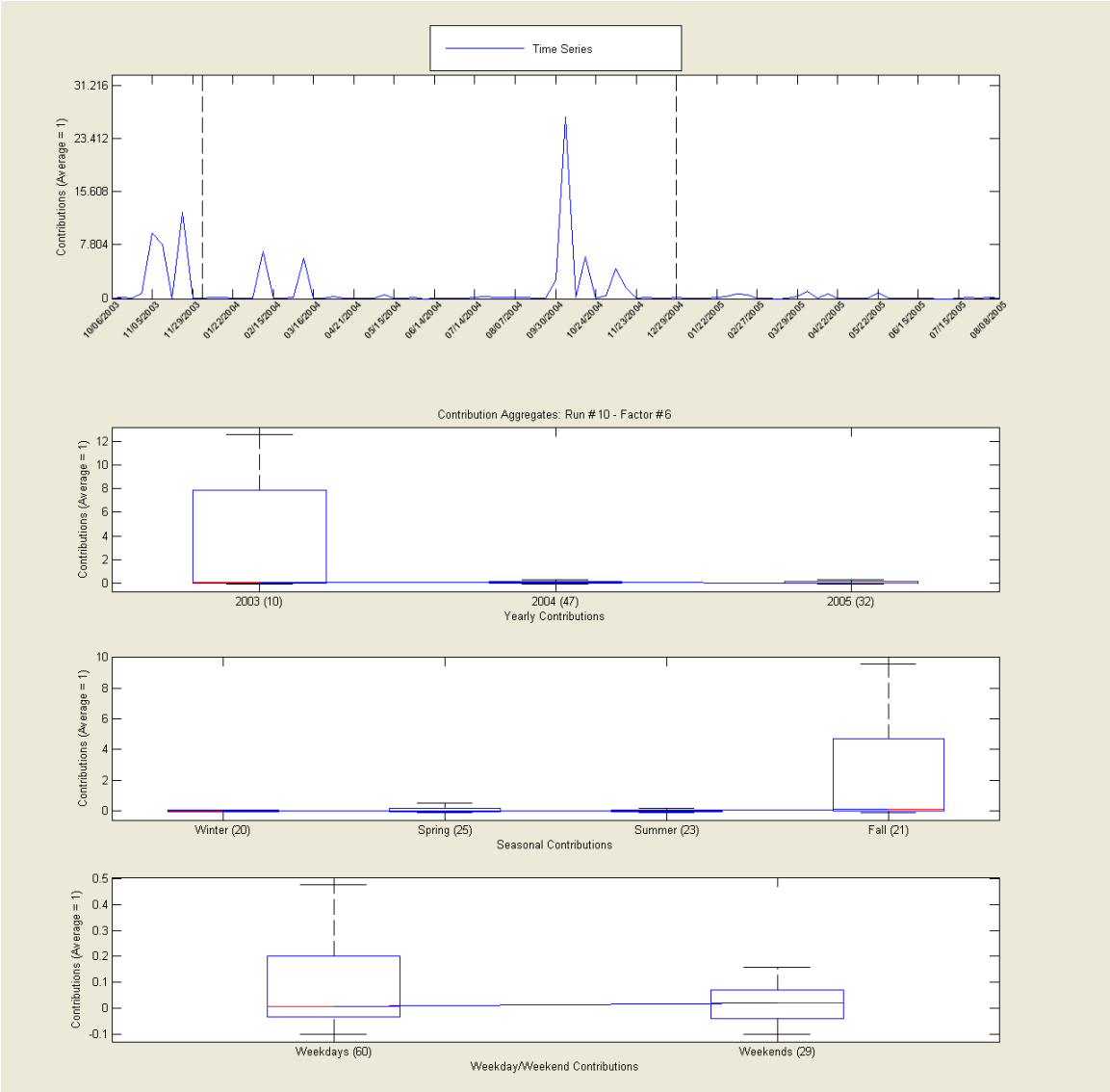



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 5
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
3
2.5
2
1.5
1
0.5
0
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 6: Halogen-Rich Sources

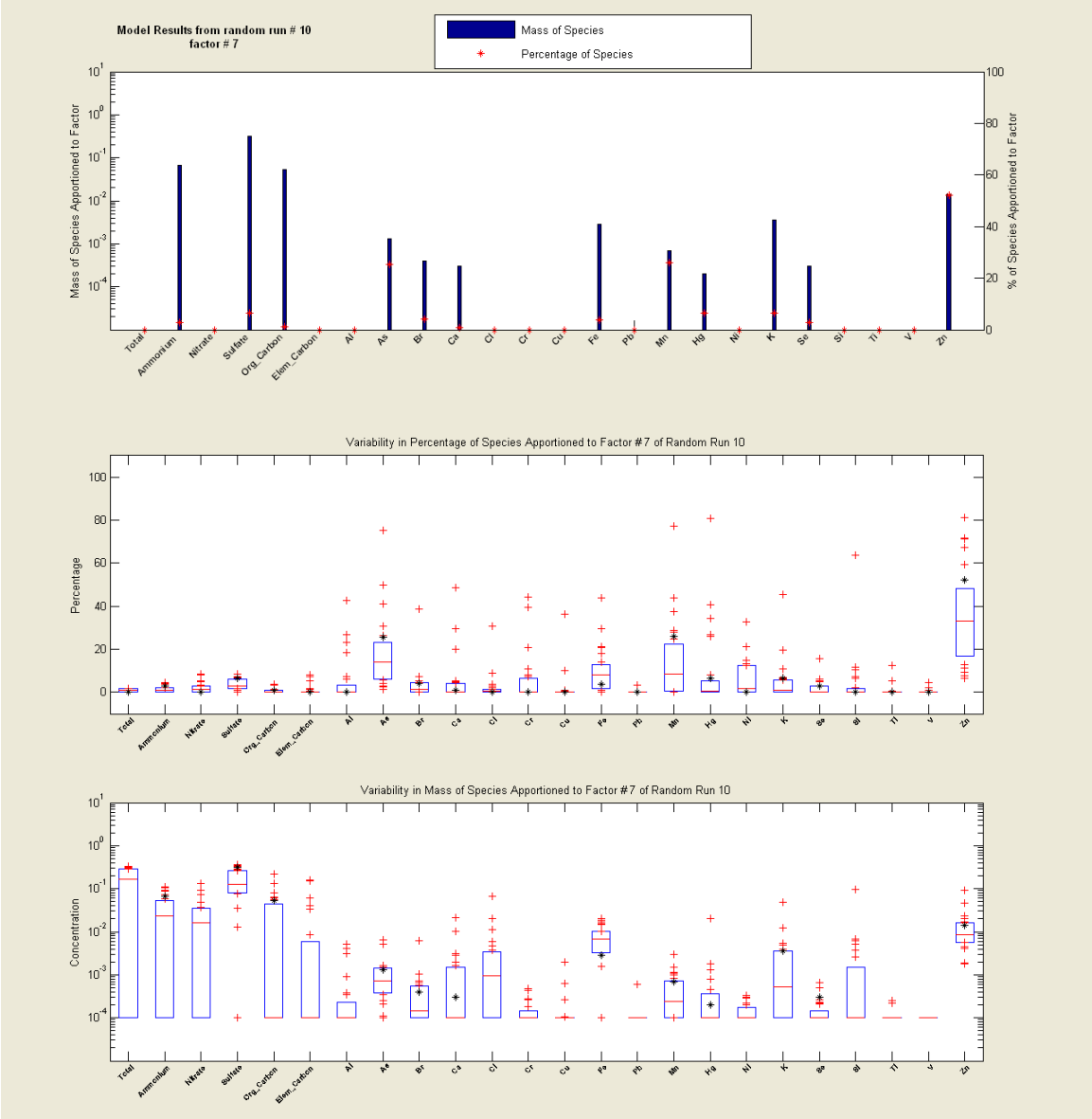
Factor 6 contains high percentages of chlorine and bromine, and contributions are highest in fall. Contributions from this factor are extremely specific, as only a few large peaks are evident throughout the year. Previous analysis of speciation data has shown that chlorine tracks the carbons during cold weather only. This may indicate that the halogens are originating from the same wind direction.

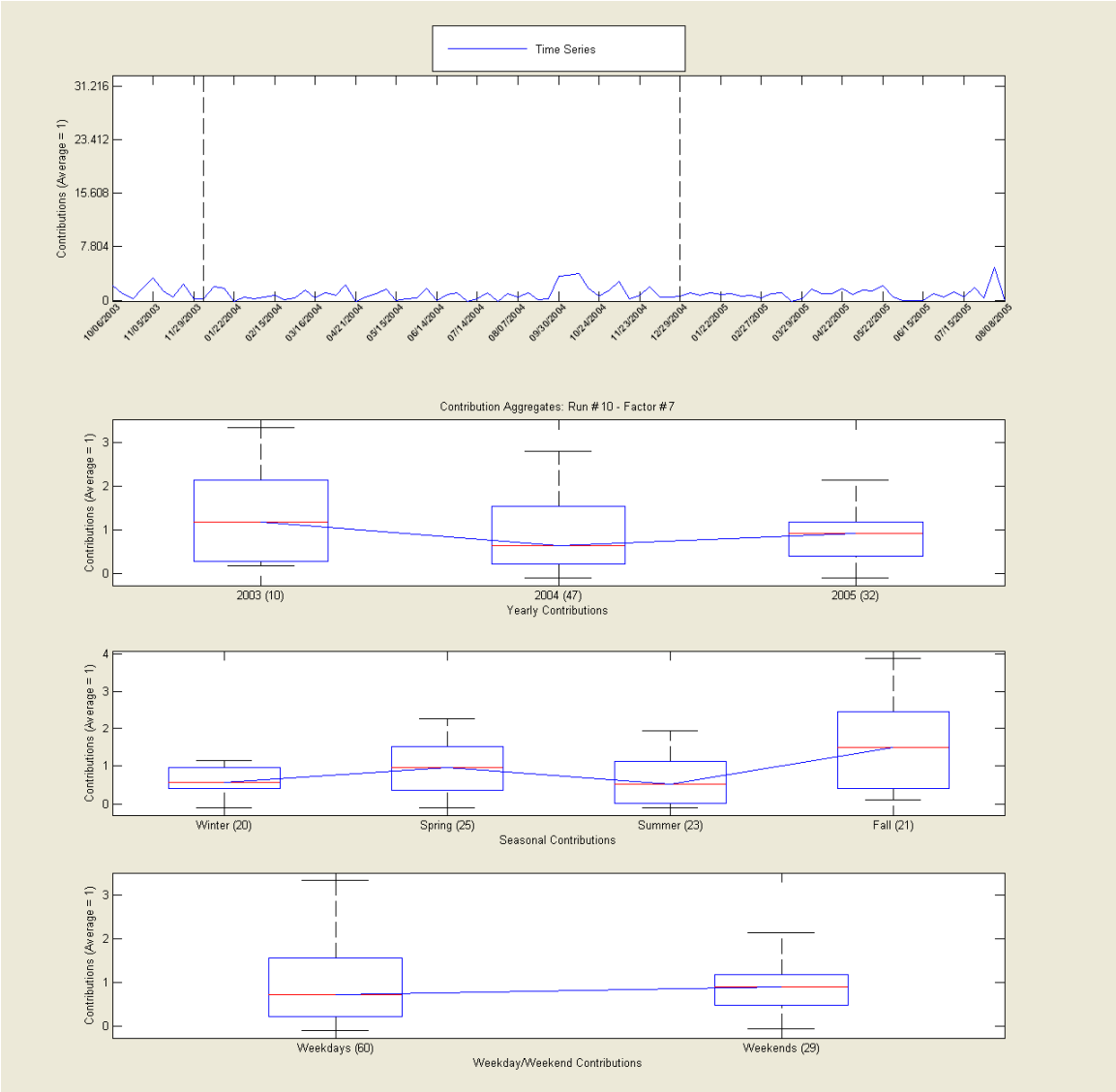



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/09/2005
Contribution Aggregates: Run # 10 - Factor # 6
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 7: Zinc-Rich Sources

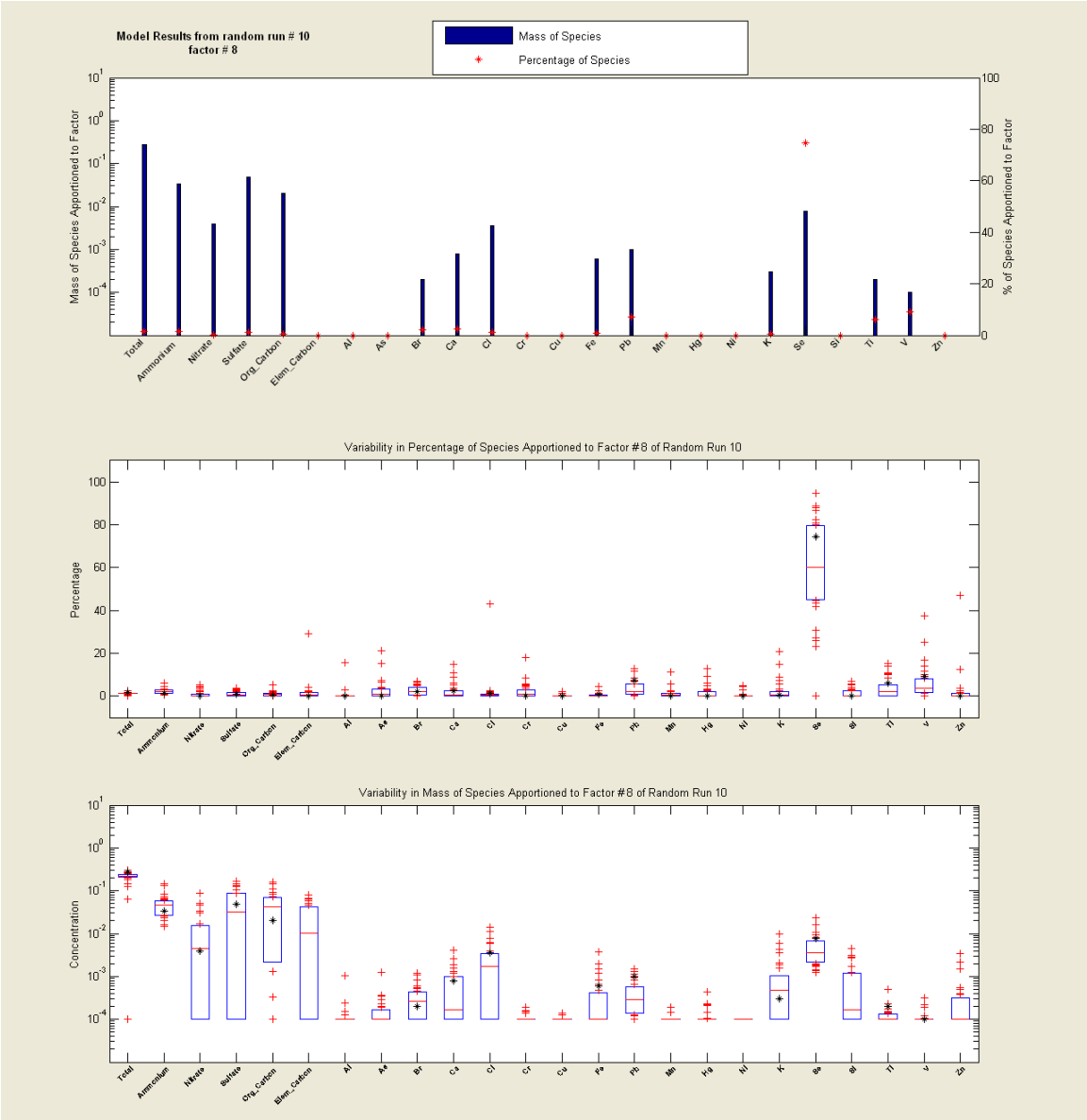
Factor 7 contains a high percentage of zinc, along with smaller percentages arsenic, manganese, and sulfate. Factors with these characteristics are often classified as municipal waste incinerators or metallurgical (galvanizing) facilities.

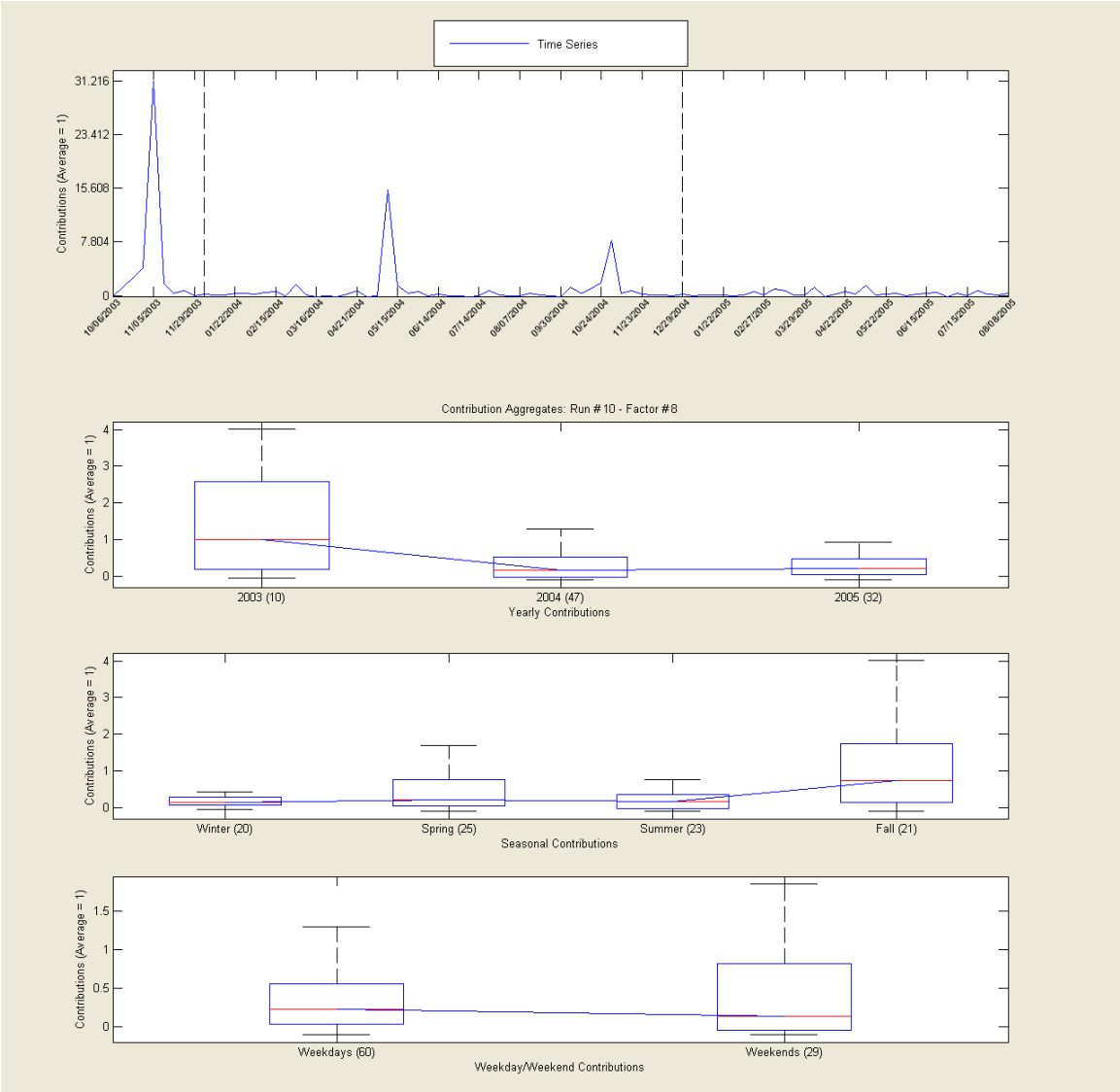



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/03/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor #7
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 8: Selenium-Rich Industrial

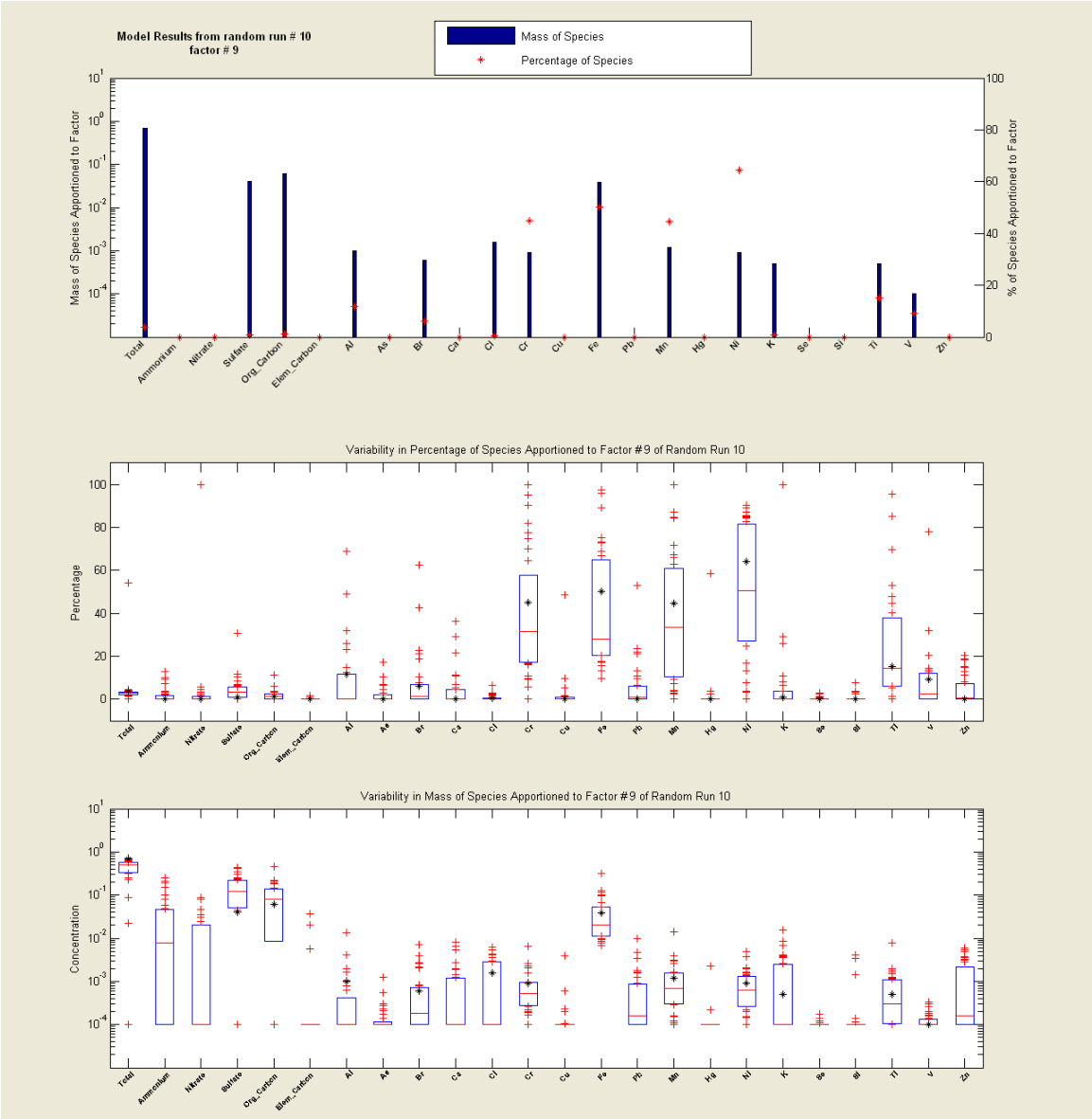
Factor 8 contains a high percentage of selenium, with nearly negligible percentages of all other species. Selenium is sometimes associated with primary coal-fired boiler emissions but is also present in some glass manufacturing emissions.

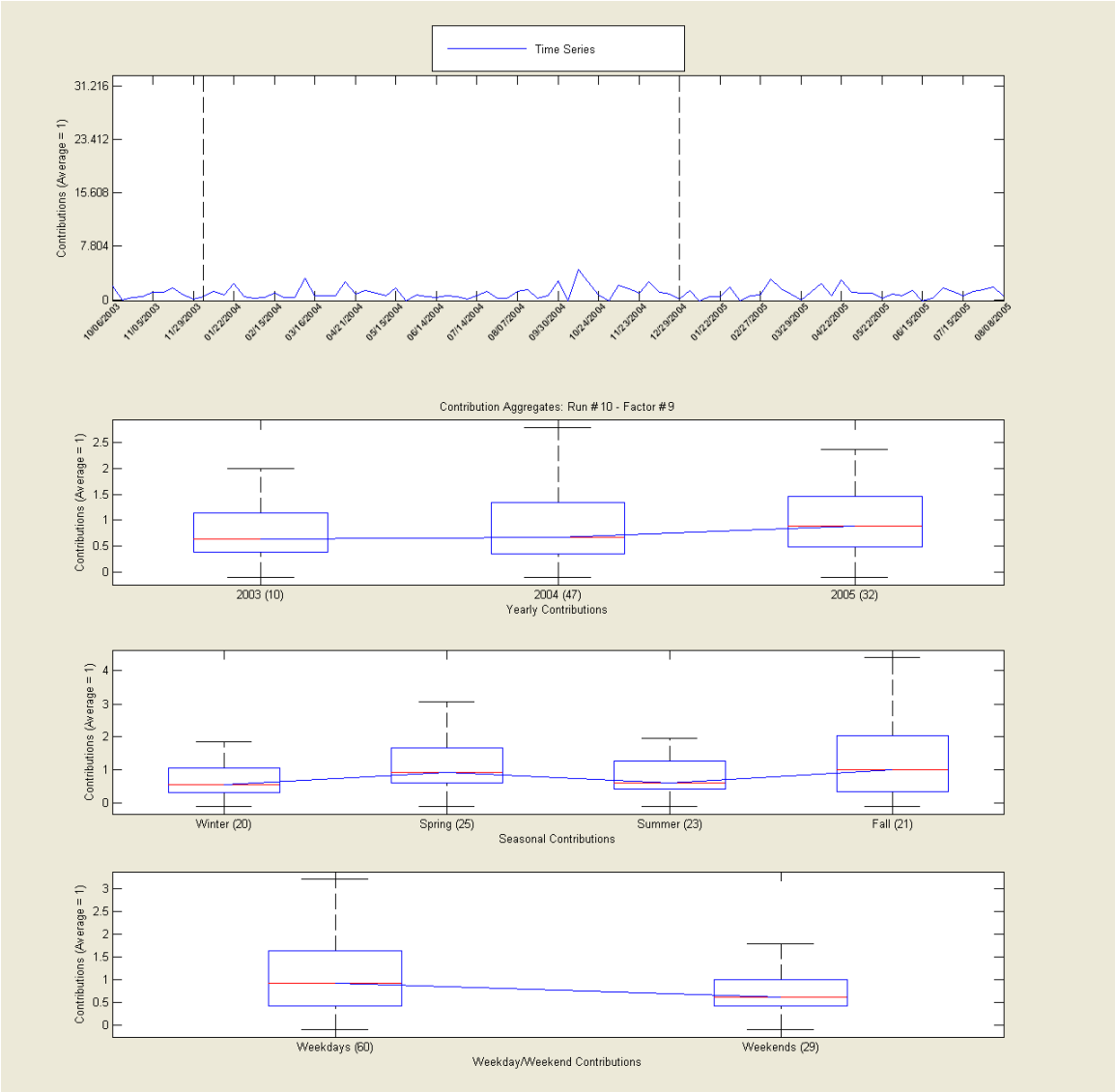



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 8
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 9: Road Dust

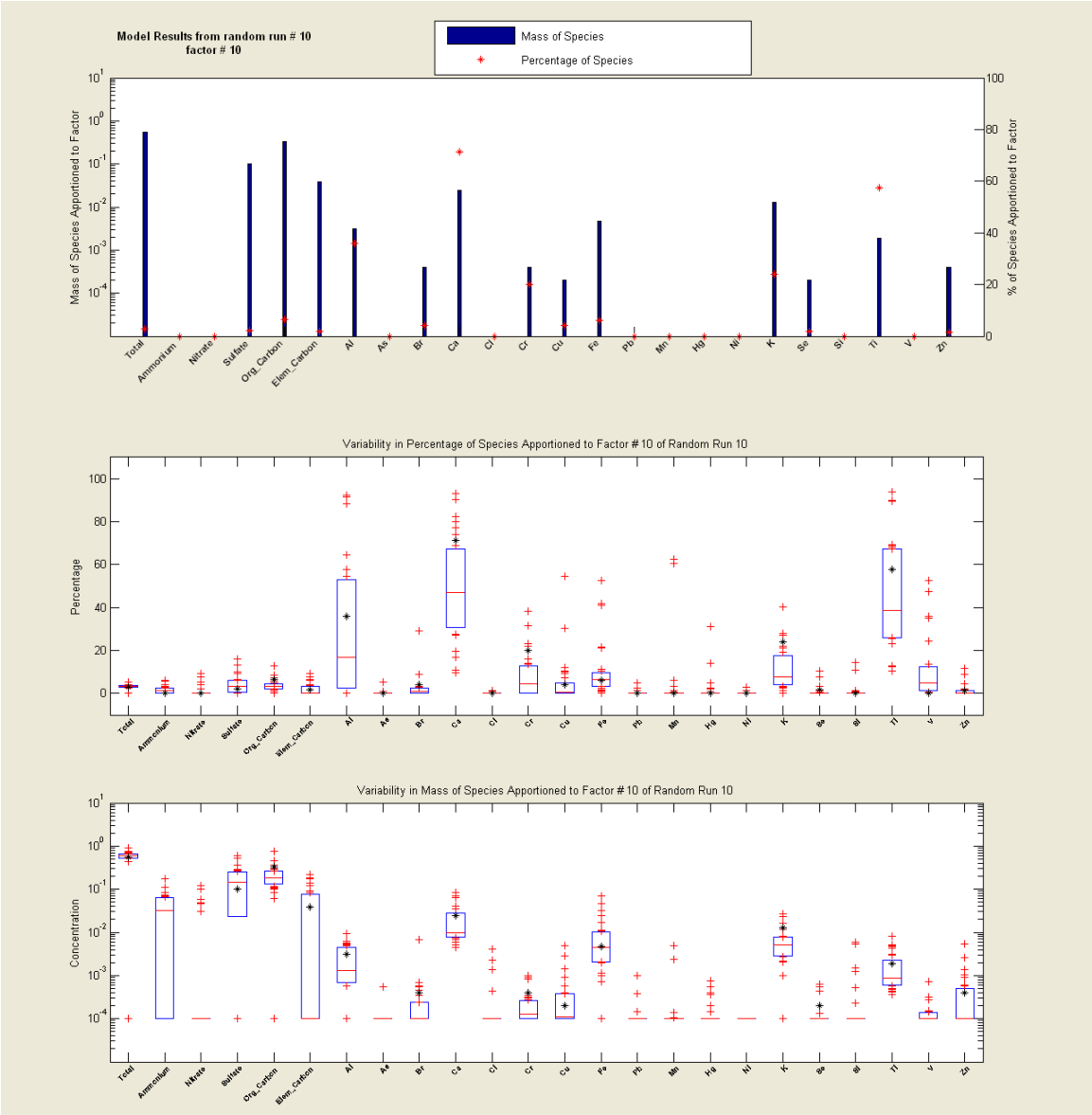
Factor 9 contains percentages of iron, aluminum, and titanium, as well as chromium, nickel, and manganese, and is higher on weekdays. It is best classified as miscellaneous road dust, with some contributions possibly from metallurgical facilities.

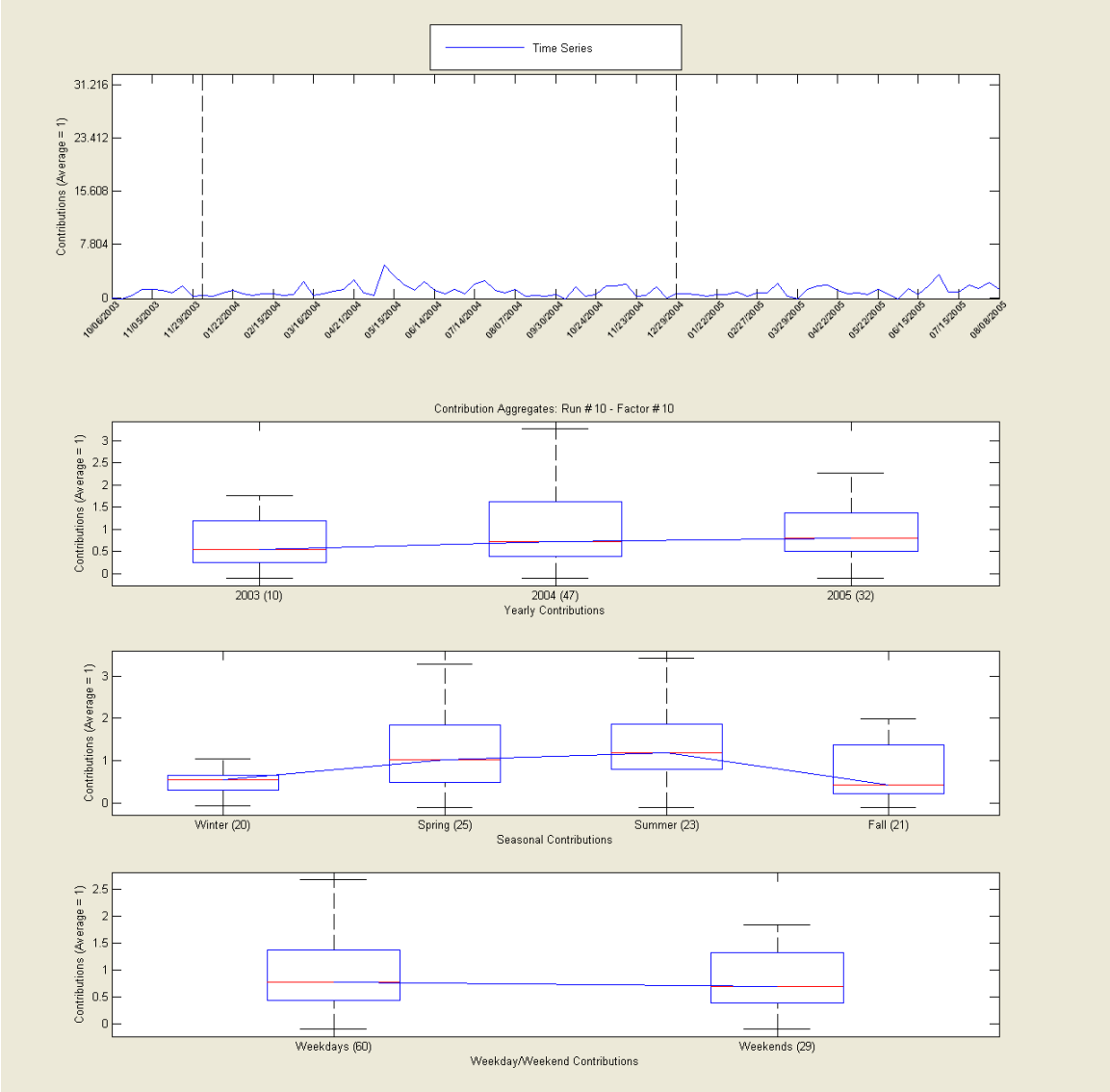



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
12/05/2003
01/02/2004
02/01/2004
03/01/2004
04/01/2004
05/01/2004
06/01/2004
07/01/2004
08/01/2004
09/01/2004
10/01/2004
11/01/2004
12/01/2004
01/02/2005
02/02/2005
03/02/2005
04/02/2005
05/02/2005
06/02/2005
07/02/2005
08/02/2005
Contribution Aggregates: Run # 10 - Factor # 9
Contributions (Average = 1)
2.5
2
1.5
1
0.5
0
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
4
3
2
1
0
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
3
2.5
2
1.5
1
0.5
0
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 10: Airborne Crustal (Other)

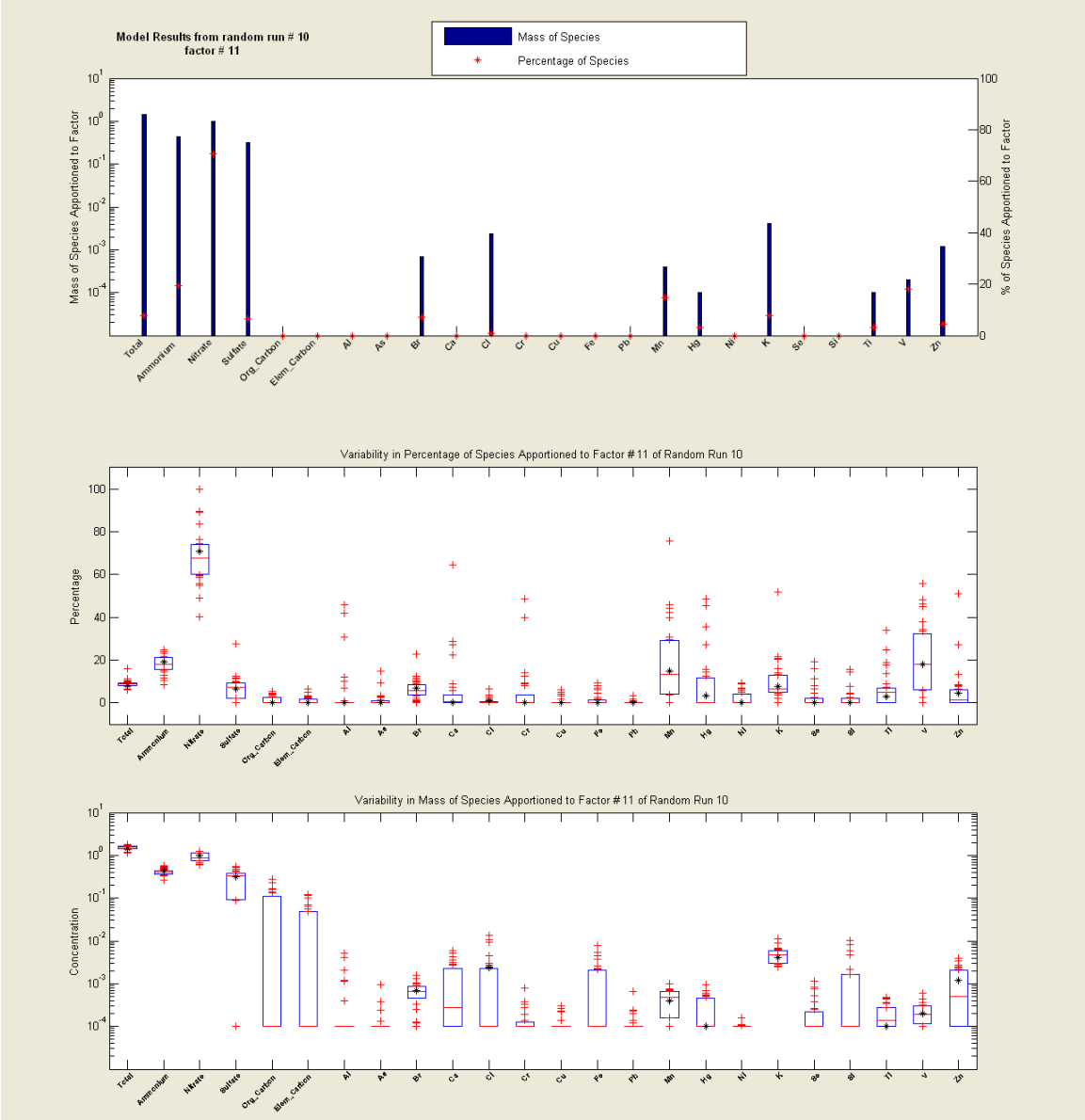
Like Factor 5 (silicon-rich crustal), Factor 10 is composed of crustal elements and is higher on weekdays and in spring. Aluminum, calcium, and titanium show the highest percentages for this factor.

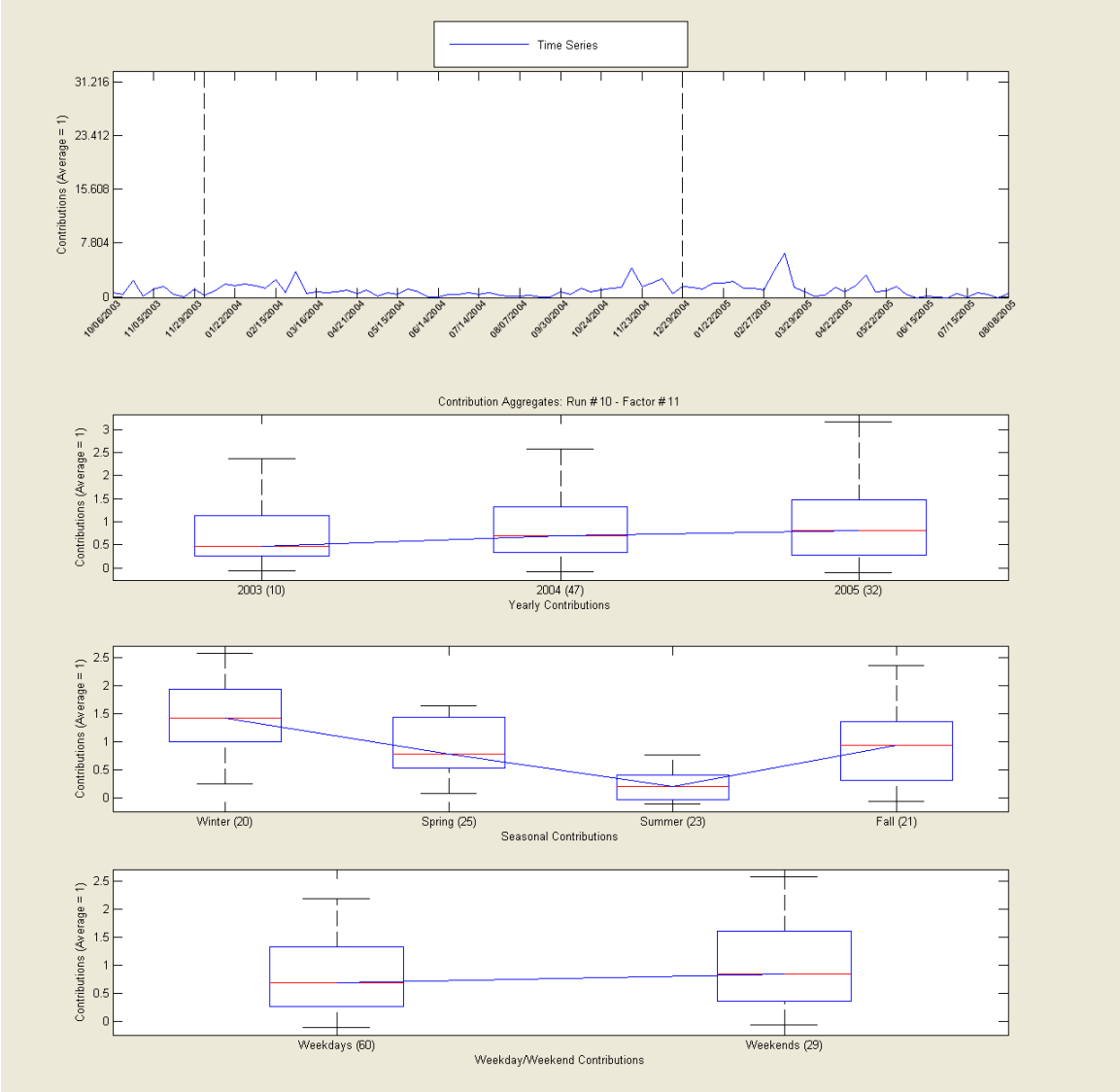



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/16/2003
11/5/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 10
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 11: Secondary Ammonium Nitrate

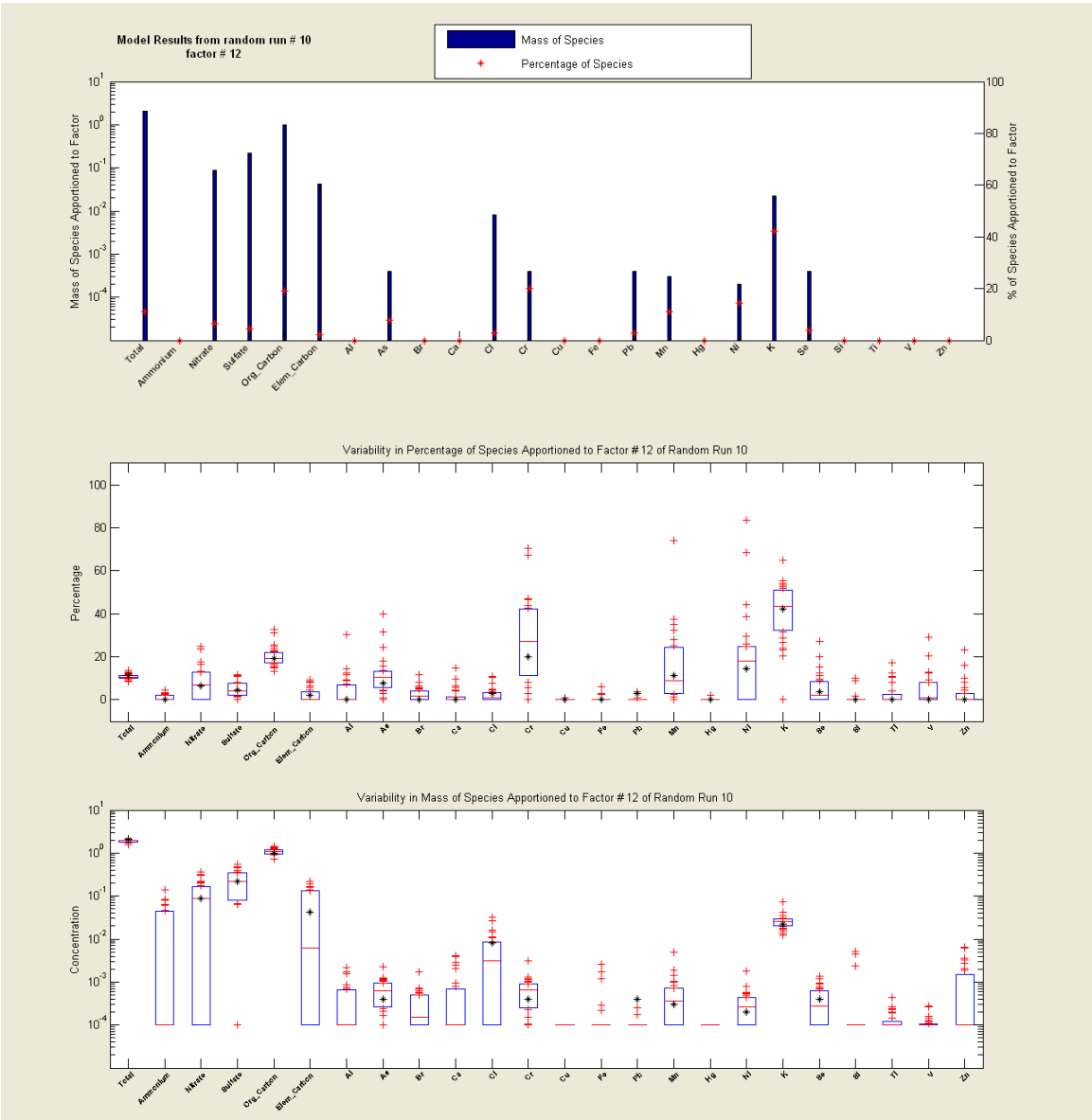
Factor 11 is the majority of secondary ammonium nitrate at the Liberty, dominant in cold weather. Nitrate is a secondary species created by upwind NOx sources such as fossil fuel-fired boilers.

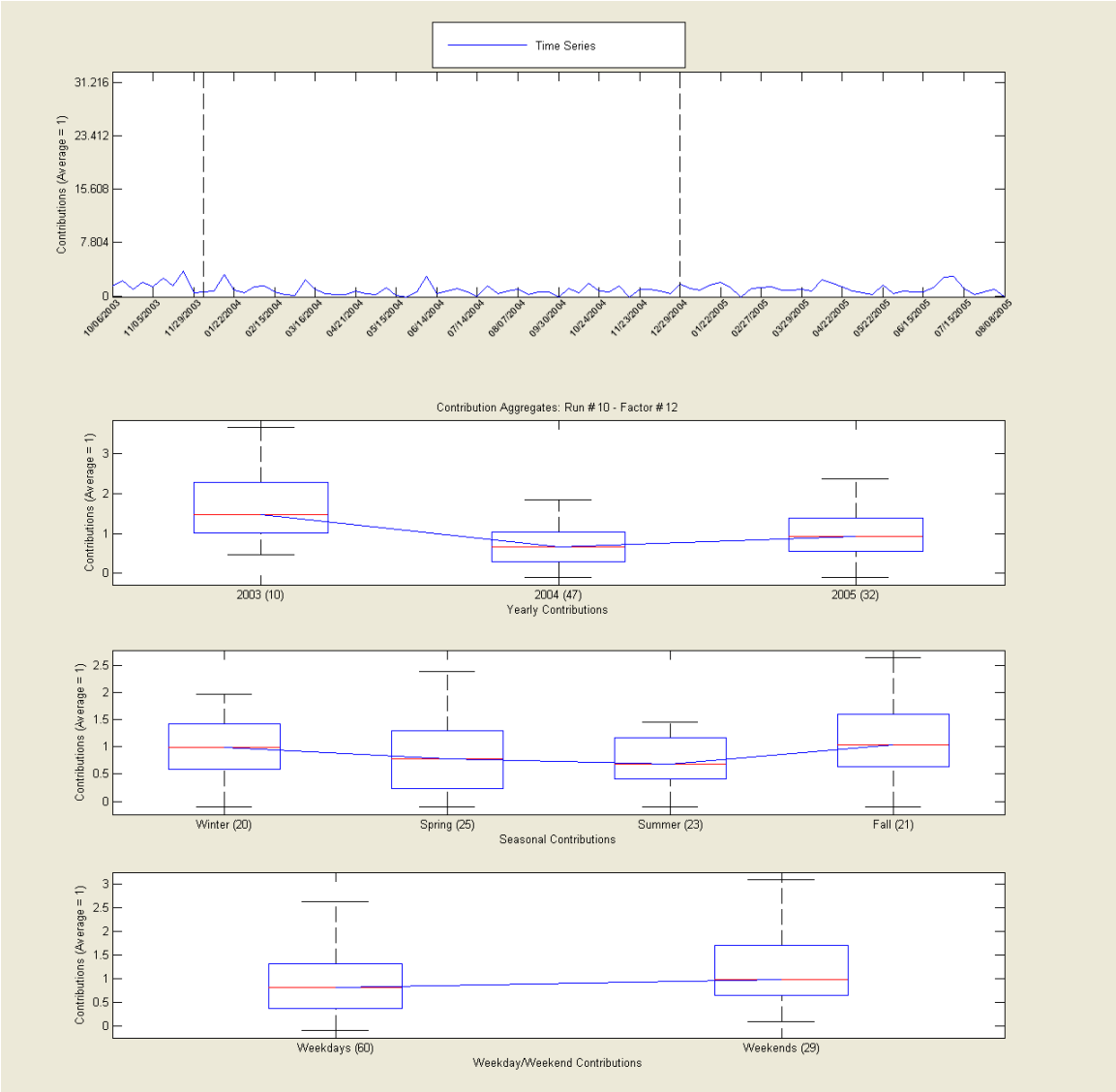



Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/19/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 11
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

Liberty Source Factor 12: Vegetative Burning

Factor 12 contains high percentages of organic carbon and potassium and is highest in fall and winter. This is indicative of vegetative burning, most likely for residential-heating in the Liberty area. This differs from the miscellaneous burning factor at Lawrenceville, which is highest in summer and is most likely due to recreational burning and cooking.




Time Series
Contributions (Average = 1)
31.216
23.412
15.608
7.804
0
10/06/2003
11/05/2003
11/29/2003
01/22/2004
02/15/2004
03/16/2004
04/21/2004
05/15/2004
06/14/2004
07/14/2004
08/07/2004
09/30/2004
10/24/2004
11/23/2004
12/29/2004
01/22/2005
02/27/2005
03/29/2005
04/22/2005
05/22/2005
06/15/2005
07/15/2005
08/08/2005
Contribution Aggregates: Run # 10 - Factor # 12
Contributions (Average = 1)
2003 (10)
2004 (47)
2005 (32)
Yearly Contributions
Contributions (Average = 1)
Winter (20)
Spring (25)
Summer (23)
Fall (21)
Seasonal Contributions
Contributions (Average = 1)
Weekdays (60)
Weekends (29)
Weekday/Weekend Contributions

6. Model Diagnostics

Lawrenceville Diagnostics:

Factors = 11
Random Run #10
Perfect Theoretical Q = 1305

```
==============================================


_____________________ANALYSIS START___________________________

Number of random starting points: 10
Number of factors: 11
Seed: Used random seed.
c3 Modeling Constant(Percent): 5.00

Species included:
    Strong - Ammonium,Nitrate,Sulfate,Org_Carbon,
                    Elem_Carbon,Ca,Cl,Cu,
                    Fe,Pb,Mn,Se,
                    Si,Zn,

    Weak (down-weighted) - Total,Al,As,Br,
                    Cr,Hg,Ni,K,
                    Ti,V,

 Species not included:
    Bad (not included) -   No "Bad" variables


~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Q Values for random-start runs
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Random Run  Q(Robust)    Q(True) Converged(Y/N) #Steps
     1     1571.85       1578.03   Yes           1289
     2     1571.84       1578.03   Yes           1313
     3     1571.88       1578.03   Yes           1320
     4     1571.83       1578.01   Yes           1358
     5     1571.88       1578.04   Yes           1471
     6     1571.87       1578.04   Yes           1135
     7     1571.81       1578.01   Yes           1480
     8     1571.88       1578.03   Yes           1228
     9     1571.81       1578.01   Yes           1177
    10     1571.84       1578.02   Yes           1018
```

_____START BASE FACTOR ANALYSIS_____

Regression diagnostics of run# 10

Species	Intercept	Slope	RMSE	r^2
Total	0.34	0.97	1.41	0.97
Ammonium	0.02	0.98	0.12	0.99
Nitrate	-0.01	1.01	0.08	1.00
Sulfate	0.12	0.97	0.34	0.99
Org_Carbon	0.21	0.94	0.38	0.95
Elem_Carbon	0.13	0.82	0.17	0.82
Al	0.01	0.09	0.01	0.10
As	0.00	0.33	0.00	0.26
Br	0.00	0.41	0.00	0.46
Ca	0.00	0.98	0.00	1.00
Cl	0.00	0.97	0.00	1.00
Cr	0.00	0.19	0.00	0.27
Cu	0.00	0.82	0.00	0.83
Fe	0.01	0.93	0.02	0.96
Pb	0.00	0.98	0.00	0.99
Mn	0.00	0.93	0.00	0.97
Hg	0.00	0.04	0.00	0.02
Ni	0.00	0.27	0.00	0.32
K	0.03	0.38	0.02	0.44
Se	0.00	0.99	0.00	1.00
Si	0.00	1.00	0.00	1.00
Ti	0.00	0.34	0.00	0.41
V	0.00	0.14	0.00	0.13
Zn	0.00	1.00	0.00	1.00

****

Dates (residuals) beyond 3 Std. Dev.

Species	Dates (residuals)
Al	- 03/25/2004(3.2)
As	- 08/31/2004(3.1)
Cr	- 10/09/2003(3.0), 02/21/2005(4.1)
Cu	- 07/23/2003(3.0), 08/25/2003(3.5), 09/21/2003(3.5), 12/17/2003(-4.0), 05/30/2004(4.3), 05/22/2005(3.4), 07/09/2005(4.9)
Fe	- 11/23/2003(3.1), 12/17/2003(3.2)
Ni	- 02/21/2005(3.6)
K	- 01/01/2005(3.1)

```
************************
Species   (residuals) beyond 3 Std. Dev.

Dates                Species   (residuals)

07/23/2003 - Cu          (  3.0  )
08/25/2003 - Cu          (  3.5  )
09/21/2003 - Cu          (  3.5  )
10/09/2003 - Cr          (  3.0  )
11/23/2003 - Fe          (  3.1  )
12/17/2003 - Cu          ( -4.0  ), Fe          (  3.2  )
03/25/2004 - Al          (  3.2  )
05/30/2004 - Cu          (  4.3  )
08/31/2004 - As          (  3.1  )
01/01/2005 - K           (  3.1  )
02/21/2005 - Cr          (  4.1  ), Ni          (  3.6  )
05/22/2005 - Cu          (  3.4  )
07/09/2005 - Cu          (  4.9  )

_____________________END BASE FACTOR ANALYSIS_____________________


_____________________START BOOT STRAP ANALYSIS_____________________

Number of bootstrap runs: 30
Minimum correlation between base and boot factors : 0.600000

Factor Map Frequency table

Number of bootstrap runs :30
Minimum R-Value for base-boot factor mapping: 0.6
Seed: rand

Number of bootstrap runs that converged and are summarized: 30

Number of bootstrap runs that did not converge and are therefore
                                        excluded from the summary: 0


Number of bootstrapped factors mapped to original factor 1 : 30
Number of bootstrapped factors mapped to original factor 2 : 30
Number of bootstrapped factors mapped to original factor 3 : 28
Number of bootstrapped factors mapped to original factor 4 : 30
Number of bootstrapped factors mapped to original factor 5 : 31
Number of bootstrapped factors mapped to original factor 6 : 30
Number of bootstrapped factors mapped to original factor 7 : 30
Number of bootstrapped factors mapped to original factor 8 : 30
Number of bootstrapped factors mapped to original factor 9 : 30
Number of bootstrapped factors mapped to original factor 10 : 30
Number of bootstrapped factors mapped to original factor 11 : 30

Number of bootstrapped factors mapped to no original factor : 1
```

Q(Robust) Percentile Report

Min	25th	Median	75th	Max
1342.28	1466.54	1513.72	1531.55	1693.68

****
Variability in Factor Strengths, Based on Bootstrapping
****

Factors	5th	25th	75th	95th
Factor 1	0.8606	0.9442	1.0654	1.1832
Factor 2	0.4518	0.9284	2.3494	4.7239
Factor 3	0.6176	0.8341	1.0731	1.2811
Factor 4	0.4413	0.6844	1.7348	4.7941
Factor 5	0.6732	0.9509	1.9119	3.7830
Factor 6	0.2797	0.5671	1.6461	2.3106
Factor 7	0.4863	0.6124	1.1508	1.4861
Factor 8	0.5471	0.6790	0.8878	1.0852
Factor 9	0.2811	0.4717	0.8239	1.1209
Factor 10	0.4003	0.5116	1.0112	1.5941
Factor 11	0.3853	0.8075	1.7620	2.4260

_____END BOOT STRAP ANALYSIS_____

_____ANALYSIS END_____

Liberty Diagnostics:

Factors = 12
Random Run #10
Perfect Theoretical Q = 546

```
==============================================


_____________________ANALYSIS START_____________________

Number of random starting points: 10
Number of factors: 12
Seed: Used random seed.
c3 Modeling Constant(Percent): 5.00

Species included:
    Strong - Ammonium,Nitrate,Sulfate,Org_Carbon,
                    Elem_Carbon,Br,Ca,Cl,
                    Cu,Fe,Pb,K,
                    Se,Si,Zn,

    Weak (down-weighted) - Total,Al,As,Cr,
                    Mn,Hg,Ni,Ti,
                    V,

 Species not included:
    Bad (not included) -   No "Bad" variables


~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Q Values for random-start runs
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Random Run  Q(Robust)   Q(True) Converged(Y/N)  #Steps
     1     573.79        573.79   Yes           1887
     2     573.79        573.79   Yes           1916
     3     573.81        573.81   Yes           2070
     4     573.77        573.77   Yes           1672
     5     573.76        573.76   Yes           1776
     6     573.93        573.93   Yes           1746
     7     573.77        573.77   Yes           1672
     8     573.80        573.80   Yes           1317
     9     573.76        573.76   Yes           1813
    10     573.76        573.76   Yes           1749
```

_____START BASE FACTOR ANALYSIS_____

Regression diagnostics of run# 10

Species	Intercept	Slope	RMSE	r^2
Total	0.16	0.97	2.44	0.96
Ammonium	0.08	0.95	0.18	0.99
Nitrate	0.03	0.97	0.08	0.99
Sulfate	-0.04	1.01	0.25	0.99
Org_Carbon	0.20	0.94	0.60	0.98
Elem_Carbon	-0.00	0.97	0.43	0.97
Al	0.01	0.09	0.01	0.20
As	0.00	0.87	0.00	0.77
Br	-0.00	1.01	0.00	0.99
Ca	-0.00	1.00	0.00	1.00
Cl	-0.00	0.99	0.06	1.00
Cr	0.00	0.23	0.00	0.24
Cu	0.00	1.00	0.00	1.00
Fe	-0.00	1.01	0.00	1.00
Pb	0.00	0.99	0.00	1.00
Mn	0.00	0.29	0.00	0.40
Hg	0.00	0.27	0.00	0.57
Ni	0.00	0.31	0.00	0.39
K	0.00	0.97	0.00	0.98
Se	0.00	0.98	0.00	1.00
Si	0.00	1.00	0.00	1.00
Ti	0.00	0.40	0.00	0.46
V	0.00	0.16	0.00	0.16
Zn	0.00	1.00	0.00	1.00

****

Dates (residuals) beyond 3 Std. Dev.

Species	Dates (residuals)
Al	- 04/21/2004(3.6), 05/15/2004(3.9)
Hg	- 10/06/2004(3.1)

****

Species (residuals) beyond 3 Std. Dev.

Dates	Species	(residuals)
04/21/2004	- Al	(3.6)
05/15/2004	- Al	(3.9)
10/06/2004	- Hg	(3.1)

_____END BASE FACTOR ANALYSIS_____

_____START BOOT STRAP ANALYSIS_____

Number of bootstrap runs: 30
Minimum correlation between base and boot factors : 0.600000

Number of bootstrap runs :30
Minimum R-Value for base-boot factor mapping: 0.6
Seed: rand
Number of bootstrap runs that converged and are summarized: 30

Number of bootstrapped factors mapped to original factor 1 : 30
Number of bootstrapped factors mapped to original factor 2 : 29
Number of bootstrapped factors mapped to original factor 3 : 31
Number of bootstrapped factors mapped to original factor 4 : 28
Number of bootstrapped factors mapped to original factor 5 : 31
Number of bootstrapped factors mapped to original factor 6 : 32
Number of bootstrapped factors mapped to original factor 7 : 25
Number of bootstrapped factors mapped to original factor 8 : 30
Number of bootstrapped factors mapped to original factor 9 : 32
Number of bootstrapped factors mapped to original factor 10 : 28
Number of bootstrapped factors mapped to original factor 11 : 30
Number of bootstrapped factors mapped to original factor 12 : 28

Number of bootstrapped factors mapped to no original factor : 6

Q(Robust) Percentile Report

Min	25th	Median	75th	Max
461.76	506.43	540.53	560.06	591.49

****
Variability in Factor Strengths, Based on Bootstrapping
****

Factors	5th	25th	75th	95th
Factor 1	0.2080	0.4489	1.2264	1.5371
Factor 2	0.1891	0.6002	0.9719	1.6770
Factor 3	0.7942	0.8733	1.0212	1.0781
Factor 4	0.3861	0.6458	1.4760	2.1156
Factor 5	0.5246	0.9082	2.6555	4.0411
Factor 6	0.4377	0.8355	1.4045	2.5626
Factor 7	0.3114	0.9239	2.1890	4.2387
Factor 8	0.5044	1.0210	3.6669	4.8345
Factor 9	0.2280	0.6735	2.2953	3.5172
Factor 10	0.2869	1.1254	2.5904	4.0050
Factor 11	0.6189	0.8371	1.3037	1.6004
Factor 12	0.5059	0.6783	0.9834	1.2985

_____END BOOT STRAP ANALYSIS_____

_____ANALYSIS END_____

7. References

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Multivariate Receptor Modeling Workbook. Sept. 2005. Brown, S.G. and Hafner, H.R., Sonoma Technology, Inc., prepared for U.S. EPA.

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Sources of Fine Particle Concentration and Composition in Northern Vermont. Poirot, R.L., et al. For presentation at the International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC, Sept. 12-14, 2000.

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Source Apportionment Analysis of Air Quality Monitoring Data: Phase II. March 2005. Prepared by Desert Research Institute for the Mid-Atlantic/Northeast Visibility Union and Midwest Regional Planning Organization.

$PM_{2.5}$ Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results Comparison. Allegheny County Health Department, June 2005.

Additional Information

For more information concerning this report or Allegheny County $PM_{2.5}$ data analysis, contact the ACHD Air Quality Program at 412-578-8120.

With regard to the development of the PMF 1.1 model, the EPA disclaimer is reproduced below:

> PMF1.1 Disclaimer: The United States Environmental Protection Agency through its Office of Research and Development funded and collaborated in the research described here under Contract Number 4D-5645-NAEX to Clarkson University and Contract Numbers 68W99002, 68W00122, and GS-35F-4461G to Science Applications International Corporation (SAIC). This software is now being subjected to external peer-review and is for evaluation purposes only. The software has not been cleared for distribution by the United States Environmental Protection Agency. Software is guaranteed to be virus free (Symantec Antivirus Corporate Edition Program: 8.00.9378).

$PM_{2.5}$ SIP

Appendix F

Liberty-Clairton Emissions Inventories

F-1: Stationary Point Sources

F-2: Area Sources

F-3: Nonroad Sources

F-4: Mobile Sources

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F-1: Stationary Point Sources

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	NOX	0.02400	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	NOX	6.30805	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	NOX	0.15500	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	NOX	0.15500	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	NOX	0.15500	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	NOX	0.30500	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	001	9	4	FUSION BOND PROCESS	PM10-PRI	0.02930	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	002	2	8	XTEC WB BH STACK	PM10-PRI	0.26400	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	PM10-PRI	0.00182	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	003	1	9999	ROAD EMISSIONS	PM10-PRI	5.05869	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	PM10-PRI	0.43040	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	PM10-PRI	0.01178	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	PM10-PRI	0.01178	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	PM10-PRI	0.01178	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	007	1	9999	FUSION BOND WB-1 BH STACK	PM10-PRI	0.28900	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	008	1	3	FUSION BOND WB-2 BH STACK	PM10-PRI	0.28900	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	PM10-PRI	0.02318	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	001	9	4	FUSION BOND PROCESS	PM25-PRI	0.02930	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	002	2	8	XTEC WB BH STACK	PM25-PRI	0.26400	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	PM25-PRI	0.00182	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	003	1	9999	ROAD EMISSIONS	PM25-PRI	5.05869	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	PM25-PRI	0.43040	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	PM25-PRI	0.01178	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	PM25-PRI	0.01178	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	PM25-PRI	0.01178	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	007	1	9999	FUSION BOND WB-1 BH STACK	PM25-PRI	0.28900	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	008	1	3	FUSION BOND WB-2 BH STACK	PM25-PRI	0.28900	2002	ANNUAL	AUG-O
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	PM25-PRI	0.02318	2002	ANNUAL	AUG-C
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	SO2	0.00014	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	SO2	0.41964	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	SO2	0.00093	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	SO2	0.00093	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	SO2	0.00093	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	SO2	0.00183	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	VOC	0.00132	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	VOC	0.43175	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	VOC	0.00853	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	VOC	0.00853	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	VOC	0.00853	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	VOC	0.01678	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	012	1	9999	GASOLINE STORAGE TANK	VOC	0.07270	2002	ANNUAL	L
DURA - BOND INDUSTRIES INC.	4200300280	013	1	9999	DIESEL STORAGE TANK	VOC	0.00037	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	NOX	1.97610	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	NOX	3.55905	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	NOX	0.86975	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	NOX	1.00545	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	NOX	2.83545	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	NOX	0.24077	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	NOX	3.39720	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	002	1	3	ROD PITCH PROCESS	PM10-PRI	0.25834	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	002	2	9999	ROD PITCH PROCESS	PM10-PRI	0.66200	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	PM10-PRI	0.15018	2002	ANNUAL	AUG-C

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	PM10-PRI	0.27049	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	PM10-PRI	0.06610	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	PM10-PRI	0.07642	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	PM10-PRI	0.21550	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	PM10-PRI	0.03007	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	PM10-PRI	0.23904	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	009	3	9999	PAVED ROADS	PM10-PRI	0.66041	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	009	4	9999	UNPAVED ROADS	PM10-PRI	2.43730	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	011	2	9999	ROD PITCH LOADING	PM10-PRI	4.05570	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	028	1	9999	COOLING TOWER	PM10-PRI	0.73085	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	002	1	3	ROD PITCH PROCESS	PM25-PRI	0.25834	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	002	2	9999	ROD PITCH PROCESS	PM25-PRI	0.66200	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	PM25-PRI	0.15018	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	PM25-PRI	0.27049	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	PM25-PRI	0.06610	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	PM25-PRI	0.07642	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	PM25-PRI	0.21550	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	PM25-PRI	0.03007	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	PM25-PRI	0.23904	2002	ANNUAL	AUG-C
KOPPERS INDUSTRIES INC.	4200300027	009	3	9999	PAVED ROADS	PM25-PRI	0.18869	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	009	4	9999	UNPAVED ROADS	PM25-PRI	0.36166	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	011	2	9999	ROD PITCH LOADING	PM25-PRI	4.05570	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	028	1	9999	COOLING TOWER	PM25-PRI	0.73085	2002	ANNUAL	AUG-O
KOPPERS INDUSTRIES INC.	4200300027	001	1	9999	ROD PITCH TAR REFINING	SO2	1.05600	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	SO2	0.01186	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	SO2	0.02135	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	SO2	0.00522	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	SO2	0.00603	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	SO2	0.01701	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	SO2	0.01245	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	SO2	0.22329	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	001	1	9999	ROD PITCH TAR REFINING	VOC	0.29500	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	001	2	9999	ROD PITCH TAR REFINING	VOC	44.06000	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	VOC	0.10869	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	VOC	0.19575	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	VOC	0.04784	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	VOC	0.05530	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	VOC	0.15595	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	VOC	0.44866	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	VOC	0.27729	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	011	1	9999	LIQUID LOADING	VOC	8.37200	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	012	1	9999	COAL TAR PITCH TANKS	VOC	2.58900	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	014	1	9999	TYPE A PITCH TANKS	VOC	7.20800	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	015	1	9999	REFINED CHEM OIL TANKS	VOC	4.02500	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	017	1	9999	CARBON BLACK OIL TANKS	VOC	0.21800	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	018	1	9999	CREOSOTE TANKS	VOC	0.56500	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	020	1	9999	NSR TANKS	VOC	0.12700	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	022	1	9999	WASTEWATER TANKS	VOC	0.12700	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	022	2	9999	WASTEWATER TANKS	VOC	0.00100	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	024	1	9999	DEBENZOL TANKS	VOC	3.53800	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	029	1	9999	CENTRIFUGE	VOC	0.14300	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	030	1	9999	LIGHT OIL TANKS	VOC	0.02300	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
KOPPERS INDUSTRIES INC.	4200300027	031	1	9999	CRUDE COAL TANKS	VOC	0.16300	2002	ANNUAL	L
KOPPERS INDUSTRIES INC.	4200300027	032	1	9999	PETROL PITCH RAILCARS	VOC	3.78100	2002	ANNUAL	L
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	NOX	0.24260	2002	ANNUAL	L
MID-CONTINENT COAL AND COKE	4200301031	001	1	1	BREEZE CONVEYOR	PM10-PRI	0.00142	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	2	1	SCREEN 1 OUTFALL	PM10-PRI	0.00055	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	3	1	SCREEN 2 OUTFALL	PM10-PRI	0.00055	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	4	1	CONVEYOR OUTFALL	PM10-PRI	0.00110	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	5	1	SMALL PILE	PM10-PRI	0.00012	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	6	1	BUCKWHEAT PILE	PM10-PRI	0.00087	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	7	1	COKE BREEZE	PM10-PRI	0.00010	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	002	1	1	SCREEN 1	PM10-PRI	0.15240	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	002	2	1	SCREEN 2	PM10-PRI	0.38100	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	002	3	1	SCREEN 3	PM10-PRI	0.33528	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	003	1	1	WIND EROSION	PM10-PRI	1.43000	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	004	1	1	STORAGE PILES	PM10-PRI	2.54000	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	1	1	ROAD EMISSIONS - TRUCKS	PM10-PRI	1.22958	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	2	1	ROAD EMISSIONS - 970F LOAD	PM10-PRI	0.30050	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	3	1	ROAD EMISSIONS - 950E LOAD	PM10-PRI	0.39237	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	4	1	ROAD EMISSIONS - 950B LOAD	PM10-PRI	0.48722	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	PM10-PRI	0.01213	2002	ANNUAL	AUG-C
MID-CONTINENT COAL AND COKE	4200301031	001	1	1	BREEZE CONVEYOR	PM25-PRI	0.00044	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	2	1	SCREEN 1 OUTFALL	PM25-PRI	0.00017	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	3	1	SCREEN 2 OUTFALL	PM25-PRI	0.00017	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	4	1	CONVEYOR OUTFALL	PM25-PRI	0.00035	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	5	1	SMALL PILE	PM25-PRI	0.00004	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	6	1	BUCKWHEAT PILE	PM25-PRI	0.00028	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	001	7	1	COKE BREEZE	PM25-PRI	0.00003	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	002	1	1	SCREEN 1	PM25-PRI	0.15240	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	002	2	1	SCREEN 2	PM25-PRI	0.15240	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	002	3	1	SCREEN 3	PM25-PRI	0.13411	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	003	1	1	WIND EROSION	PM25-PRI	0.57200	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	004	1	1	STORAGE PILES	PM25-PRI	2.54000	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	1	1	ROAD EMISSIONS - TRUCKS	PM25-PRI	0.17375	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	2	1	ROAD EMISSIONS - 970F LOAD	PM25-PRI	0.04508	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	3	1	ROAD EMISSIONS - 950E LOAD	PM25-PRI	0.05863	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	005	4	1	ROAD EMISSIONS - 950B LOAD	PM25-PRI	0.07218	2002	ANNUAL	AUG-O
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	PM25-PRI	0.00120	2002	ANNUAL	AUG-C
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	SO2	0.34837	2002	ANNUAL	L
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	VOC	0.00243	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	NOX	0.07700	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	NOX	0.11700	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	NOX	0.11550	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	NOX	0.00550	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	NOX	0.00600	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	NOX	0.00125	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	NOX	0.27700	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	NOX	0.08470	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	1	5	SMALL BURNOFF OVEN, COATNG	NOX	0.00425	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	NOX	0.02000	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	1	6	LARGE BURNOFF OVEN, COATNG	NOX	0.00150	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	NOX	0.03050	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	PM10-PRI	0.00585	2002	ANNUAL	AUG-O

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	PM10-PRI	0.00889	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A09	1	1	COLLAPSIBLE BLASTING ROOM	PM10-PRI	0.01500	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	PM10-PRI	0.00878	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	1	9	SKIN/TIN AREA	PM10-PRI	0.00035	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	PM10-PRI	0.00042	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	PM10-PRI	0.00046	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	PM10-PRI	0.00010	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	PM10-PRI	0.02105	2002	ANNUAL	AUG-C
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	PM10-PRI	0.00720	2002	ANNUAL	AUG-C
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	PM10-PRI	0.00152	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	PM10-PRI	0.00232	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	PM25-PRI	0.00585	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	PM25-PRI	0.00889	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A09	1	1	COLLAPSIBLE BLASTING ROOM	PM25-PRI	0.00150	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	PM25-PRI	0.00878	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	1	9	SKIN/TIN AREA	PM25-PRI	0.00023	2002	ANNUAL	AUG-C
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	PM25-PRI	0.00042	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	PM25-PRI	0.00046	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	PM25-PRI	0.00010	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	PM25-PRI	0.02105	2002	ANNUAL	AUG-C
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	PM25-PRI	0.00460	2002	ANNUAL	AUG-C
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	PM25-PRI	0.00152	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	PM25-PRI	0.00232	2002	ANNUAL	AUG-O
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	SO2	0.00046	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	SO2	0.00070	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	SO2	0.00069	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	SO2	0.00003	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	SO2	0.00004	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	SO2	0.00001	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	SO2	0.00166	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	SO2	0.00036	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	1	5	SMALL BURNOFF OVEN, COATNG	SO2	0.00211	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	SO2	0.00012	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	1	6	LARGE BURNOFF OVEN, COATNG	SO2	0.00075	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	SO2	0.00018	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	VOC	0.00424	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	4	3	LARGE BAKE OVEN, NG	VOC	0.01900	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	VOC	0.00644	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	2	4	SMALL BAKE OVEN, NG	VOC	0.14000	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A10	1	2	PAINT SPRAY BOOTH	VOC	0.76000	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	VOC	0.00635	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	2	7	COIL MFG. OVEN 3 UNITS NG	VOC	0.34000	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	VOC	0.00030	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	VOC	0.00033	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	VOC	0.00007	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	D03	1	1	U-372 STORAGE	VOC	0.03600	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	D04	1	1	U-475 STORAGE	VOC	0.03700	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	D05	1	1	TSR-601 VARNISH TANK	VOC	0.07200	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	D06	1	1	B-373 RESIN STORAGE	VOC	0.06000	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	D07	1	1	B-619 RESIN STORAGE	VOC	0.00400	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	G08	1	1	MISC FUGITIVE	VOC	0.95000	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	VOC	0.01524	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	VOC	0.00169	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	1	5	SMALL BURNOFF OVEN, COATNG	VOC	0.16069	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	VOC	0.00110	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	1	6	LARGE BURNOFF OVEN, COATNG	VOC	0.05672	2002	ANNUAL	L
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	VOC	0.00168	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	NH3	0.15000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	NH3	0.00500	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	NH3	0.17000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	NH3	0.00500	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	NH3	0.16000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	NH3	0.00477	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	1	9999	BATTERY 7 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	2	9999	BATTERY 7 DOOR LEAKS	NH3	0.15000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	4	9999	BATTERY 7 TOPSIDE LEAKS	NH3	0.00400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	1	9999	BATTERY 8 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	2	9999	BATTERY 8 DOOR LEAKS	NH3	0.15000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	4	9999	BATTERY 8 TOPSIDE LEAKS	NH3	0.00600	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	1	9999	BATTERY 9 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	2	9999	BATTERY 9 DOOR LEAKS	NH3	0.16000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	4	9999	BATTERY 9 TOPSIDE LEAKS	NH3	0.00600	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	NH3	0.15000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	NH3	0.00400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	NH3	0.15000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	NH3	0.00400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	NH3	0.00700	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	NH3	0.16000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	NH3	0.00600	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	NH3	0.01100	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	NH3	0.25000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	NH3	0.00600	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	NH3	0.01100	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	NH3	0.23000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	NH3	0.01100	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	NH3	0.01100	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	NH3	0.22000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	NH3	0.00200	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	NH3	0.02000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	NH3	0.01000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	NH3	0.02000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	016	1	16	BATTERY 7, UNDERFIRING	NH3	0.01000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	017	1	17	BATTERY 8, UNDERFIRING	NH3	0.01000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	018	1	18	BATTERY 9, UNDERFIRING	NH3	0.01000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	NH3	0.10000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	NH3	0.38000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	NH3	0.24000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	NH3	0.19000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	NH3	0.57000	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	NH3	0.61000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	NH3	0.01110	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	NH3	0.11022	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	NH3	0.01488	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	NH3	0.00088	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	2	931	HOT CAR 7-9, NO STACK	NH3	0.01092	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	1	26	PEC BAGHOUSE 7-9, STACK	NH3	0.10853	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	3	936	PUSHING FUGITIVES 7-9	NH3	0.01465	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	4	941	UNCONTROLLED PUSH 7-9	NH3	0.00073	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	NH3	0.01333	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	NH3	0.13232	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	NH3	0.01786	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	NH3	0.00114	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	NH3	0.01428	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	NH3	0.14172	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	NH3	0.01913	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	NH3	0.00129	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	NH3	0.00599	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	NH3	0.11985	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	NH3	0.00629	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	NH3	0.00002	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	NH3	14.42804	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	031	1	946	QUENCH TOWER 3	NH3	14.19165	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	032	1	947	QUENCH TOWER 5	NH3	17.33017	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	033	1	948	QUENCH TOWER 7	NH3	18.56902	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	NH3	15.58272	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	NH3	0.56164	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	NH3	0.44028	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1/R2	NH3	0.01736	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R1/R2	NH3	0.01085	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1/T2	NH3	0.01054	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T1/T2	NH3	0.01054	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	NH3	0.00026	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	086	1	9999	WWT, AERATION	NH3	212.89000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	NH3	0.01100	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	NH3	0.48500	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	NOX	0.09000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	NOX	0.09000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	NOX	0.09000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	5	9999	BATTERY 7 SOAKING	NOX	0.09000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	5	9999	BATTERY 8 SOAKING	NOX	0.09000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	5	9999	BATTERY 9 SOAKING	NOX	0.09000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	NOX	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	NOX	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	NOX	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	NOX	0.18000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	NOX	0.18000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	NOX	0.30000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	NOX	334.70000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	NOX	345.91000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	NOX	356.80000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	016	1	16	BATTERY 7, UNDERFIRING	NOX	294.86000	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	017	1	17	BATTERY 8, UNDERFIRING	NOX	381.39000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	018	1	18	BATTERY 9, UNDERFIRING	NOX	339.86000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	NOX	253.86000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	NOX	224.55000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	NOX	191.92000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	NOX	630.00000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	NOX	954.75000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	NOX	453.03000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	NOX	0.92672	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	NOX	9.20325	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	NOX	1.26751	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	NOX	0.07280	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	2	931	HOT CAR 7-9, NO STACK	NOX	0.91154	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	1	26	PEC BAGHOUSE 7-9, STACK	NOX	9.06261	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	3	936	PUSHING FUGITIVES 7-9	NOX	1.24814	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	4	941	UNCONTROLLED PUSH 7-9	NOX	0.06007	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	NOX	1.11313	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	NOX	11.04854	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	NOX	1.52166	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	NOX	0.09416	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	NOX	1.19270	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	NOX	11.83316	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	NOX	1.62972	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	NOX	0.10679	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	NOX	0.41954	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	NOX	10.84643	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	NOX	0.59925	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	NOX	0.00162	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	NOX	446.78000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	NOX	43.65000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	NOX	263.03000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	NOX	26.82000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1/R2	NOX	8.82000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R1/R2	NOX	5.52000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1/T2	NOX	5.35000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T1/T2	NOX	5.35000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	NOX	88.90560	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	NOX	37.04400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	NOX	1.66000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	NOX	0.00300	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	NOX	0.35000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	NOX	4.62000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	PM10-PRI	0.60117	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	PM10-PRI	1.75000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	PM10-PRI	0.05500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	PM10-PRI	0.60117	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	PM10-PRI	1.98000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	PM10-PRI	0.06000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	PM10-PRI	0.60117	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	PM10-PRI	1.90000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	PM10-PRI	0.06200	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	004	5	9999	BATTERY 7 SOAKING	PM10-PRI	0.59132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	004	1	9999	BATTERY 7 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	004	2	9999	BATTERY 7 DOOR LEAKS	PM10-PRI	1.78000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	004	4	9999	BATTERY 7 TOPSIDE LEAKS	PM10-PRI	0.04800	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	005	5	9999	BATTERY 8 SOAKING	PM10-PRI	0.59132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	005	1	9999	BATTERY 8 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	005	2	9999	BATTERY 8 DOOR LEAKS	PM10-PRI	1.72000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	005	4	9999	BATTERY 8 TOPSIDE LEAKS	PM10-PRI	0.07100	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	006	5	9999	BATTERY 9 SOAKING	PM10-PRI	0.59132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	006	1	9999	BATTERY 9 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	006	2	9999	BATTERY 9 DOOR LEAKS	PM10-PRI	1.84000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	006	4	9999	BATTERY 9 TOPSIDE LEAKS	PM10-PRI	0.07100	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	PM10-PRI	0.10443	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	PM10-PRI	1.77000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	PM10-PRI	0.05700	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	PM10-PRI	0.10443	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	PM10-PRI	1.82000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	PM10-PRI	0.05200	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	PM10-PRI	0.10443	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	PM10-PRI	0.08500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	PM10-PRI	1.90000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	PM10-PRI	0.05000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	PM10-PRI	1.16056	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	PM10-PRI	0.13400	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	PM10-PRI	2.91000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	PM10-PRI	0.06600	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	PM10-PRI	1.16056	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	PM10-PRI	0.13400	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	PM10-PRI	2.66000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	PM10-PRI	0.08000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	PM10-PRI	1.94784	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	PM10-PRI	0.12800	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	PM10-PRI	1.79000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	PM10-PRI	0.02400	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	PM10-PRI	17.48537	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	PM10-PRI	26.33032	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	PM10-PRI	16.03920	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	016	1	16	BATTERY 7, UNDERFIRING	PM10-PRI	16.46714	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	017	1	17	BATTERY 8, UNDERFIRING	PM10-PRI	15.77398	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	018	1	18	BATTERY 9, UNDERFIRING	PM10-PRI	11.87417	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	PM10-PRI	10.85200	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	PM10-PRI	10.71444	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	PM10-PRI	9.58056	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	PM10-PRI	26.92132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	PM10-PRI	21.37581	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	PM10-PRI	28.92469	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	6	9999	PRE-PUSH 1-3	PM10-PRI	5.17190	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	PM10-PRI	36.18662	2002	ANNUAL	AUG-O

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	PM10-PRI	2.19730	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	PM10-PRI	48.98666	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	PM10-PRI	2.84451	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	025	5	9999	BALL MILL 1-3	PM10-PRI	0.30266	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	026	6	9999	PRE-PUSH 7-9	PM10-PRI	5.08716	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	026	2	931	HOT CAR 7-9, NO STACK	PM10-PRI	35.63194	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	026	1	26	PEC BAGHOUSE 7-9, STACK	PM10-PRI	2.22948	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	026	3	936	PUSHING FUGITIVES 7-9	PM10-PRI	48.28687	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	026	4	941	UNCONTROLLED PUSH 7-9	PM10-PRI	2.34963	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	026	5	9999	BALL MILL 7-9	PM10-PRI	0.33720	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300033	027	6	9999	PRE-PUSH 13-15	PM10-PRI	6.21220	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	PM10-PRI	43.48873	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	PM10-PRI	2.97397	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	PM10-PRI	58.83511	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	PM10-PRI	3.68132	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	027	5	9999	BALL MILL 13-15	PM10-PRI	0.45240	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300039	028	6	9999	PRE-PUSH 19-20	PM10-PRI	6.65628	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	PM10-PRI	46.59753	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	PM10-PRI	3.23143	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	PM10-PRI	63.01335	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	PM10-PRI	4.17491	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	028	5	9999	BALL MILL 19-20	PM10-PRI	0.46824	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300045	029	6	9999	PRE-PUSH B	PM10-PRI	5.58581	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	PM10-PRI	15.72956	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	PM10-PRI	11.96813	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	PM10-PRI	20.69212	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	PM10-PRI	0.06314	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	029	5	9999	BALL MILL B	PM10-PRI	0.61500	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	PM10-PRI	328.28668	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	031	1	946	QUENCH TOWER 3	PM10-PRI	322.90796	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	032	1	947	QUENCH TOWER 5	PM10-PRI	394.32003	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	033	1	948	QUENCH TOWER 7	PM10-PRI	422.50800	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	PM10-PRI	354.55969	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	PM10-PRI	27.53861	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	PM10-PRI	1.34900	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	PM10-PRI	21.58781	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	PM10-PRI	1.06400	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	PM10-PRI	0.85120	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	PM10-PRI	0.53200	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	PM10-PRI	0.51680	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	PM10-PRI	0.51680	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	063	1	9999	UNLOADING 1	PM10-PRI	0.61883	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	063	2	9999	UNLOADING 2	PM10-PRI	0.50259	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	064	1	973	PEDESTAL CRANE	PM10-PRI	0.05546	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	065	1	974	CLAMSHELL UNLOAD	PM10-PRI	0.16637	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	066	1	9999	COAL TRANSFER	PM10-PRI	1.60203	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	067	1	9999	PULVERIZERS	PM10-PRI	0.19455	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	069	1	9999	COAL BINS/BUNKERS	PM10-PRI	0.01232	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	070	1	9999	COAL EROSION	PM10-PRI	12.15000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	071	1	9999	COKE TRANSFER	PM10-PRI	8.67492	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	072	1	9999	COKE TRANSFER	PM10-PRI	7.16525	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	073	1	9999	COKE PILE, LOAD/UNLOAD	PM10-PRI	0.07100	2002	ANNUAL	AUG-O

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	074	1	9999	SCREENING 1 (1-3, 7-9)	PM10-PRI	6.03765	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	074	2	9999	SCREENING 1 LOADOUT	PM10-PRI	0.26968	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	075	1	9999	SCREENING 2 (13-15, 19-20)	PM10-PRI	7.56893	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	075	2	9999	SCREENING 2 LOADOUT	PM10-PRI	0.33808	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	076	1	9999	SCREENING B	PM10-PRI	2.18000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	076	3	9999	SCREENING B FUGITIVES	PM10-PRI	0.46890	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	076	2	9999	SCREENING B LOADOUT	PM10-PRI	0.13963	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	077	1	9999	COKE EROSION	PM10-PRI	6.45000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	078	1	9999	BLASTING	PM10-PRI	0.61000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	079	1	9999	PLANT ROADS - PAVED	PM10-PRI	15.45000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	079	2	9999	PLANT ROADS - UNPAVED	PM10-PRI	4.87000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	PM10-PRI	12.50000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	PM10-PRI	12.50000	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	PM10-PRI	5.20000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	PM10-PRI	5.20000	2002	ANNUAL	AUG-C
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	PM10-PRI	3.40000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	084	1	9999	COOLING TOWER	PM10-PRI	0.31000	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	PM10-PRI	0.00700	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	65A	1	974	BOOM CONVEYOR	PM10-PRI	0.16821	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	65A	2	974	BOOM CONVEYOR	PM10-PRI	0.16821	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	65A	3	974	BOOM CONVEYOR	PM10-PRI	0.08411	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	65A	4	974	BOOM CONVEYOR	PM10-PRI	0.16821	2002	ANNUAL	AUG-O
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	PM25-PRI	0.60117	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	PM25-PRI	1.57965	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	PM25-PRI	0.04905	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	PM25-PRI	0.60117	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	PM25-PRI	1.78761	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	PM25-PRI	0.05430	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	PM25-PRI	0.60117	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	PM25-PRI	1.71562	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	PM25-PRI	0.05605	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	004	5	9999	BATTERY 7 SOAKING	PM25-PRI	0.59132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	004	1	9999	BATTERY 7 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	004	2	9999	BATTERY 7 DOOR LEAKS	PM25-PRI	1.60765	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	004	4	9999	BATTERY 7 TOPSIDE LEAKS	PM25-PRI	0.04379	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	005	5	9999	BATTERY 8 SOAKING	PM25-PRI	0.59132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	005	1	9999	BATTERY 8 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	005	2	9999	BATTERY 8 DOOR LEAKS	PM25-PRI	1.55366	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	005	4	9999	BATTERY 8 TOPSIDE LEAKS	PM25-PRI	0.06481	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	006	5	9999	BATTERY 9 SOAKING	PM25-PRI	0.59132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	006	1	9999	BATTERY 9 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	006	2	9999	BATTERY 9 DOOR LEAKS	PM25-PRI	1.66164	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	006	4	9999	BATTERY 9 TOPSIDE LEAKS	PM25-PRI	0.06481	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	PM25-PRI	0.10443	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	PM25-PRI	1.59266	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	PM25-PRI	0.05080	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	PM25-PRI	0.10443	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	PM25-PRI	1.64364	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	PM25-PRI	0.04729	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	PM25-PRI	0.10443	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	PM25-PRI	0.07667	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	PM25-PRI	1.66379	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	PM25-PRI	0.04554	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	PM25-PRI	1.16056	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	PM25-PRI	0.12086	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	PM25-PRI	2.62742	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	PM25-PRI	0.05955	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	PM25-PRI	1.16056	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	PM25-PRI	0.12086	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	PM25-PRI	2.40583	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	PM25-PRI	0.07182	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	PM25-PRI	1.94784	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	PM25-PRI	0.11561	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	PM25-PRI	1.64583	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	PM25-PRI	0.02102	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	PM25-PRI	14.33227	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	PM25-PRI	21.58223	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	PM25-PRI	13.14689	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	016	1	16	BATTERY 7, UNDERFIRING	PM25-PRI	13.49766	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	017	1	17	BATTERY 8, UNDERFIRING	PM25-PRI	12.92949	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	018	1	18	BATTERY 9, UNDERFIRING	PM25-PRI	9.73292	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	PM25-PRI	8.89508	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	PM25-PRI	8.78233	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	PM25-PRI	7.85292	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	PM25-PRI	22.06665	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	PM25-PRI	17.52116	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	PM25-PRI	23.70876	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	5	9999	BALL MILL 1-3	PM25-PRI	0.30266	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	PM25-PRI	3.05208	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	PM25-PRI	1.95109	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	6	9999	PRE-PUSH 1-3	PM25-PRI	5.17190	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	PM25-PRI	13.96269	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	PM25-PRI	0.73713	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	026	5	9999	BALL MILL 7-9	PM25-PRI	0.33720	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	026	2	931	HOT CAR 7-9, NO STACK	PM25-PRI	3.00208	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	026	1	26	PEC BAGHOUSE 7-9, STACK	PM25-PRI	2.06535	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	026	6	9999	PRE-PUSH 7-9	PM25-PRI	5.08716	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	026	3	936	PUSHING FUGITIVES 7-9	PM25-PRI	13.52923	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	026	4	941	UNCONTROLLED PUSH 7-9	PM25-PRI	0.61074	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	027	5	9999	BALL MILL 13-15	PM25-PRI	0.45240	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	PM25-PRI	3.66600	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	PM25-PRI	2.62566	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300033	027	6	9999	PRE-PUSH 13-15	PM25-PRI	6.21220	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	PM25-PRI	16.02044	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	PM25-PRI	0.95544	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300038	028	5	9999	BALL MILL 19-20	PM25-PRI	0.46824	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300035	028	2	933	HOT CAR 19-20, NO STACK	PM25-PRI	3.92806	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300034	028	1	28	PEC BAGHOUSE 19-20, STACK	PM25-PRI	2.85585	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300039	028	6	9999	PRE-PUSH 19-20	PM25-PRI	6.65628	2002	ANNUAL	ACHD

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300036	028	3	938	PUSHING FUGITIVES 19-20	PM25-PRI	17.39481	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300037	028	4	943	UNCONTROLLED PUSH 19-20	PM25-PRI	1.61131	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300044	029	5	9999	BALL MILL B	PM25-PRI	0.60648	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300041	029	2	934	HOT CAR B, NO STACK	PM25-PRI	2.49923	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300040	029	1	29	PEC BAGHOUSE B, STACK	PM25-PRI	9.50036	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300045	029	6	9999	PRE-PUSH B	PM25-PRI	5.58581	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300042	029	3	939	PUSHING FUGITIVES B	PM25-PRI	5.36196	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300043	029	4	944	UNCONTROLLED PUSH B	PM25-PRI	0.02437	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	PM25-PRI	320.53155	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	031	1	946	QUENCH TOWER 3	PM25-PRI	315.27990	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	032	1	947	QUENCH TOWER 5	PM25-PRI	385.00499	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	033	1	948	QUENCH TOWER 7	PM25-PRI	412.52709	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	PM25-PRI	338.99015	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	PM25-PRI	21.88594	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	PM25-PRI	1.34900	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	PM25-PRI	17.15662	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	PM25-PRI	1.06400	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	PM25-PRI	0.67650	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	PM25-PRI	0.42280	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	PM25-PRI	0.41072	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	PM25-PRI	0.41072	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	063	1	9999	UNLOADING 1	PM25-PRI	0.09461	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	063	2	9999	UNLOADING 2	PM25-PRI	0.07684	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	064	1	973	PEDESTAL CRANE	PM25-PRI	0.00857	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	065	1	974	CLAMSHELL UNLOAD	PM25-PRI	0.02572	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	066	1	9999	COAL TRANSFER	PM25-PRI	0.24272	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	067	1	9999	PULVERIZERS	PM25-PRI	0.19455	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	069	1	9999	COAL BINS/BUNKERS	PM25-PRI	0.00132	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	070	1	9999	COAL EROSION	PM25-PRI	0.00000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	071	1	9999	COKE TRANSFER 1-3, 7-9, B	PM25-PRI	1.31263	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	072	1	9999	COKE TRANSFER 13-15, 19-20	PM25-PRI	1.08420	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	073	1	9999	COKE PILE, LOAD/UNLOAD	PM25-PRI	0.01074	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	074	1	9999	SCREENING 1 (1-3, 7-9)	PM25-PRI	0.02013	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	074	2	9999	SCREENING 1 LOADOUT	PM25-PRI	0.04056	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	075	1	9999	SCREENING 2 (13-15, 19-20)	PM25-PRI	0.02523	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	075	2	9999	SCREENING 2 LOADOUT	PM25-PRI	0.05085	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	076	1	9999	SCREENING B BAGHOUSE	PM25-PRI	0.68152	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	076	3	9999	SCREENING B FUGITIVES	PM25-PRI	0.09847	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	076	2	9999	SCREENING B LOADOUT	PM25-PRI	0.02100	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	077	1	9999	COKE PILE EROSION	PM25-PRI	0.41000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	078	1	9999	BLASTING	PM25-PRI	0.06000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	079	1	9999	PLANT ROADS - PAVED	PM25-PRI	0.44000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	079	2	9999	PLANT ROADS - UNPAVED	PM25-PRI	0.29000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	PM25-PRI	12.50000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	PM25-PRI	5.20000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	PM25-PRI	3.40000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	084	1	9999	COOLING TOWER	PM25-PRI	0.31000	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	PM25-PRI	0.00700	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	65A	4	974	CONVEYOR TO BARGE	PM25-PRI	0.02487	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	65A	1	974	FRONT END LOADER TO TRUCK	PM25-PRI	0.02487	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	65A	3	974	HOPPER TO CONVEYOR	PM25-PRI	0.01244	2002	ANNUAL	ACHD
US STEEL CORP - CLAIRTON	4200300032	65A	2	974	TRUCK TO HOPPER	PM25-PRI	0.02487	2002	ANNUAL	ACHD

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	SO2	10.58000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	SO2	10.58000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	SO2	10.58000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	5	9999	BATTERY 7 SOAKING	SO2	3.83000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	5	9999	BATTERY 8 SOAKING	SO2	3.83000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	5	9999	BATTERY 9 SOAKING	SO2	3.83000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	SO2	0.67000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	SO2	0.67000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	SO2	0.67000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	SO2	3.48000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	SO2	3.48000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	SO2	4.57000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	SO2	36.40000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	SO2	43.34000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	SO2	44.73000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	016	1	16	BATTERY 7, UNDERFIRING	SO2	39.75000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	017	1	17	BATTERY 8, UNDERFIRING	SO2	37.64000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	018	1	18	BATTERY 9, UNDERFIRING	SO2	5.34000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	SO2	37.94000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	SO2	20.90000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	SO2	42.13000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	SO2	61.20000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	SO2	68.88000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	SO2	74.36000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	SO2	4.77235	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	SO2	47.39400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	SO2	6.50290	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	SO2	0.37549	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	2	931	HOT CAR 7-9, NO STACK	SO2	4.69416	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	1	26	PEC BAGHOUSE 7-9, STACK	SO2	46.66971	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	3	936	PUSHING FUGITIVES 7-9	SO2	6.40352	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	4	941	UNCONTROLLED PUSH 7-9	SO2	0.30983	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	SO2	5.73229	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	SO2	56.89665	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	SO2	7.80675	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	SO2	0.48569	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	SO2	6.14206	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	SO2	60.93724	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	SO2	8.36116	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	SO2	0.55081	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	SO2	2.21754	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	SO2	55.73030	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	SO2	2.93633	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	SO2	0.00833	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	SO2	2.94110	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	031	1	946	QUENCH TOWER 3	SO2	2.89291	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	032	1	947	QUENCH TOWER 5	SO2	3.53269	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	033	1	948	QUENCH TOWER 7	SO2	3.78522	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	SO2	3.17648	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	SO2	151.57000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	SO2	0.10650	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	SO2	115.32000	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	SO2	0.08400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1/R2	SO2	6.45000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R1/R2	SO2	4.54000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1/T2	SO2	3.58000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T1/T2	SO2	4.26000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	SO2	5.84640	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	SO2	2.43600	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	SO2	151.44000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	SO2	0.05800	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	SO2	0.00200	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	SO2	0.06000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	VOC	2.20000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	VOC	0.07000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	VOC	2.49000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	VOC	0.07500	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	VOC	2.40000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	VOC	0.07900	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	1	9999	BATTERY 7 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	2	9999	BATTERY 7 DOOR LEAKS	VOC	2.24000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	004	4	9999	BATTERY 7 TOPSIDE LEAKS	VOC	0.06100	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	1	9999	BATTERY 8 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	2	9999	BATTERY 8 DOOR LEAKS	VOC	2.17000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	005	4	9999	BATTERY 8 TOPSIDE LEAKS	VOC	0.08900	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	1	9999	BATTERY 9 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	2	9999	BATTERY 9 DOOR LEAKS	VOC	2.32000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	006	4	9999	BATTERY 9 TOPSIDE LEAKS	VOC	0.08900	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	VOC	2.23000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	VOC	0.07000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	VOC	2.29000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	VOC	0.07000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	VOC	0.11000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	VOC	2.39000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	VOC	0.06300	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	VOC	0.17000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	VOC	3.67000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	VOC	0.08400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	VOC	0.17000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	VOC	3.35000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	VOC	0.10000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	VOC	0.16000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	VOC	3.35000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	VOC	0.03000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	VOC	2.40468	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	VOC	2.40468	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	VOC	2.40468	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	016	1	16	BATTERY 7, UNDERFIRING	VOC	2.36527	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	017	1	17	BATTERY 8, UNDERFIRING	VOC	2.19000	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	018	1	18	BATTERY 9, UNDERFIRING	VOC	2.36527	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	VOC	2.88836	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	VOC	2.88836	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	VOC	0.88000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	VOC	4.64226	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	VOC	4.64226	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	VOC	7.79136	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	VOC	0.34405	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	VOC	3.41678	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	VOC	0.46292	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	VOC	0.02682	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	2	931	HOT CAR 7-9, NO STACK	VOC	0.33842	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	1	26	PEC BAGHOUSE 7-9, STACK	VOC	3.36456	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	3	936	PUSHING FUGITIVES 7-9	VOC	0.45584	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	026	4	941	UNCONTROLLED PUSH 7-9	VOC	0.02213	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	VOC	0.41326	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	VOC	4.10185	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	VOC	0.55574	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	VOC	0.03469	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	VOC	0.44280	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	VOC	4.39315	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	VOC	0.59520	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	VOC	0.03934	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	VOC	0.16182	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	VOC	4.01498	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	VOC	0.20974	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	VOC	0.00060	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	VOC	2.21970	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	031	1	946	QUENCH TOWER 3	VOC	2.18333	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	032	1	947	QUENCH TOWER 5	VOC	2.66618	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	033	1	948	QUENCH TOWER 7	VOC	2.85677	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	VOC	2.39734	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	VOC	4.34820	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	VOC	0.97625	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	VOC	3.40860	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	VOC	0.77000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1/R2	VOC	0.13440	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R1/R2	VOC	0.08400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1/T2	VOC	0.08160	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T1/T2	VOC	0.08160	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	057	1	9999	TAR STORAGE/SEPARTN TANKS	VOC	0.02000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	059	1	9999	FINAL COOLER SUMP	VOC	1.87405	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	061	1	9999	BY-PRODUCT EQUIP LEAKS	VOC	1.22000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	062	1	9999	TAR COLLECTING TANKS	VOC	0.01000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	VOC	7.25760	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	VOC	3.02400	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	082	1	9999	MAINTENANCE	VOC	4.78000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	082	2	9999	MAINTENANCE	VOC	4.90000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	VOC	125.27000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	VOC	0.00236	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	086	1	9999	WWT, AERATION	VOC	14.17000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	087	1	9999	METHANOL, AIR LINES	VOC	20.08000	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	087	2	9999	METHANOL, AIR LINES	VOC	41.49000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	087	3	9999	METHANOL, AIR LINES	VOC	0.01000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	VOC	0.00200	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	VOC	0.05000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	091	1	9999	LIGHT OIL TANKS	VOC	0.50000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	092	1	9999	LIGHT OIL LOADING	VOC	11.05000	2002	ANNUAL	L
US STEEL CORP - CLAIRTON	4200300032	093	1	9999	LIGHT OIL DECANTERS	VOC	0.33700	2002	ANNUAL	L

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	NOX	0.02500	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	NOX	6.26000	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	NOX	0.16100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	NOX	0.16100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	NOX	0.16100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	NOX	0.31600	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	001	9	4	FUSION BOND PROCESS	PM10-PRI	0.04000	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	002	2	8	XTEC WB BH STACK	PM10-PRI	0.35600	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	PM10-PRI	0.00200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	003	1	9999	ROAD EMISSIONS	PM10-PRI	8.96100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	PM10-PRI	0.42700	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	PM10-PRI	0.01200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	PM10-PRI	0.01200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	PM10-PRI	0.01200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	007	1	9999	FUSION BOND WB-1 BH STACK	PM10-PRI	0.38900	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	008	1	3	FUSION BOND WB-2 BH STACK	PM10-PRI	0.38900	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	PM10-PRI	0.02400	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	001	9	4	FUSION BOND PROCESS	PM25-PRI	0.04000	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	002	2	8	XTEC WB BH STACK	PM25-PRI	0.35600	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	PM25-PRI	0.00200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	003	1	9999	ROAD EMISSIONS	PM25-PRI	8.96100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	PM25-PRI	0.42700	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	PM25-PRI	0.01200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	PM25-PRI	0.01200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	PM25-PRI	0.01200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	007	1	9999	FUSION BOND WB-1 BH STACK	PM25-PRI	0.38900	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	008	1	3	FUSION BOND WB-2 BH STACK	PM25-PRI	0.38900	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	PM25-PRI	0.02400	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	SO2	0.00000	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	SO2	0.41600	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	SO2	0.00100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	SO2	0.00100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	SO2	0.00100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	SO2	0.00200	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	002	1	9	EXTRUSION HEATER (XTEC)	VOC	0.00100	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	003	2	9999	ROAD EMISSIONS	VOC	0.42800	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	004	1	5	FUSION BOND PROCESS OVEN 1	VOC	0.00900	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	005	1	6	FUSION BOND PROCESS OVEN 2	VOC	0.00900	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	006	1	7	FUSION BOND PROCESS OVEN 3	VOC	0.00900	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	009	1	1	FUSION BOND DRYER OVEN	VOC	0.01700	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	012	1	9999	GASOLINE STORAGE TANK	VOC	0.08700	2014	ANNUAL	MACTECPROJ(2012)
DURA - BOND INDUSTRIES INC.	4200300280	013	1	9999	DIESEL STORAGE TANK	VOC	0.00100	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	NOX	2.13800	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	NOX	3.85000	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	NOX	0.99900	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	NOX	1.08800	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	NOX	3.64400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	NOX	0.21100	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	NOX	3.06700	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	002	1	3	ROD PITCH PROCESS	PM10-PRI	0.34400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	002	2	9999	ROD PITCH PROCESS	PM10-PRI	0.88000	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	PM10-PRI	0.16300	2014	ANNUAL	MACTECPROJ(2012)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	PM10-PRI	0.29300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	PM10-PRI	0.07600	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	PM10-PRI	0.08300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	PM10-PRI	0.27700	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	PM10-PRI	0.03200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	PM10-PRI	0.26000	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	3	9999	PAVED ROADS	PM10-PRI	1.01800	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	4	9999	UNPAVED ROADS	PM10-PRI	3.75800	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	011	2	9999	ROD PITCH LOADING	PM10-PRI	5.39400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	028	1	9999	COOLING TOWER	PM10-PRI	0.89300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	002	1	3	ROD PITCH PROCESS	PM25-PRI	0.34400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	002	2	9999	ROD PITCH PROCESS	PM25-PRI	0.88000	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	PM25-PRI	0.16300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	PM25-PRI	0.29300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	PM25-PRI	0.07600	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	PM25-PRI	0.08300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	PM25-PRI	0.27700	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	PM25-PRI	0.03200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	PM25-PRI	0.26000	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	3	9999	PAVED ROADS	PM25-PRI	0.29100	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	4	9999	UNPAVED ROADS	PM25-PRI	0.55800	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	011	2	9999	ROD PITCH LOADING	PM25-PRI	5.39400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	028	1	9999	COOLING TOWER	PM25-PRI	0.89300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	001	1	9999	ROD PITCH TAR REFINING	SO2	1.40400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	SO2	0.01300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	SO2	0.02300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	SO2	0.00600	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	SO2	0.00600	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	SO2	0.02200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	SO2	0.01300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	SO2	0.24300	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	001	1	9999	ROD PITCH TAR REFINING	VOC	0.39200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	001	2	9999	ROD PITCH TAR REFINING	VOC	58.59600	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	004	1	1	2T2 HEATER	VOC	0.11800	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	005	1	1	PRIMARY FLASH HEATER	VOC	0.21200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	006	1	2	PRILL HOT OIL HEATER	VOC	0.05500	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	007	1	1	1T4 HOT OIL HEATER	VOC	0.06000	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	008	1	1	SECONDARY FLASH HEATER	VOC	0.20100	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	1	9999	GASOLINE VEHICLE EXHAUST	VOC	0.28400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	009	2	9999	DIESEL VEHICLE EXHAUST	VOC	0.18100	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	011	1	9999	LIQUID LOADING	VOC	8.01700	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	012	1	9999	COAL TAR PITCH TANKS	VOC	2.47900	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	014	1	9999	TYPE A PITCH TANKS	VOC	6.90200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	015	1	9999	REFINED CHEM OIL TANKS	VOC	3.85400	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	017	1	9999	CARBON BLACK OIL TANKS	VOC	0.20900	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	018	1	9999	CREOSOTE TANKS	VOC	0.54100	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	020	1	9999	NSR TANKS	VOC	0.12200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	022	1	9999	WASTEWATER TANKS	VOC	0.12200	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	022	2	9999	WASTEWATER TANKS	VOC	0.00100	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	024	1	9999	DEBENZOL TANKS	VOC	3.38800	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	029	1	9999	CENTRIFUGE	VOC	0.19000	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	030	1	9999	LIGHT OIL TANKS	VOC	0.02200	2014	ANNUAL	MACTECPROJ(2012)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
KOPPERS INDUSTRIES INC.	4200300027	031	1	9999	CRUDE COAL TANKS	VOC	0.15600	2014	ANNUAL	MACTECPROJ(2012)
KOPPERS INDUSTRIES INC.	4200300027	032	1	9999	PETROL PITCH RAILCARS	VOC	3.62100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	NOX	0.24100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	1	1	BREEZE CONVEYOR	PM10-PRI	0.00200	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	2	1	SCREEN 1 OUTFALL	PM10-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	3	1	SCREEN 2 OUTFALL	PM10-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	4	1	CONVEYOR OUTFALL	PM10-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	5	1	SMALL PILE	PM10-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	6	1	BUCKWHEAT PILE	PM10-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	7	1	COKE BREEZE	PM10-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	002	1	1	SCREEN 1	PM10-PRI	0.15500	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	002	2	1	SCREEN 2	PM10-PRI	0.38600	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	002	3	1	SCREEN 3	PM10-PRI	0.34000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	003	1	1	WIND EROSION	PM10-PRI	1.53100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	004	1	1	STORAGE PILES	PM10-PRI	2.72000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	1	1	ROAD EMISSIONS - TRUCKS	PM10-PRI	1.24700	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	2	1	ROAD EMISSIONS - 970F LOAD	PM10-PRI	0.30500	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	3	1	ROAD EMISSIONS - 950E LOAD	PM10-PRI	0.39800	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	4	1	ROAD EMISSIONS - 950B LOAD	PM10-PRI	0.49400	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	PM10-PRI	0.01200	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	1	1	BREEZE CONVEYOR	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	2	1	SCREEN 1 OUTFALL	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	3	1	SCREEN 2 OUTFALL	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	4	1	CONVEYOR OUTFALL	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	5	1	SMALL PILE	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	6	1	BUCKWHEAT PILE	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	001	7	1	COKE BREEZE	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	002	1	1	SCREEN 1	PM25-PRI	0.15500	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	002	2	1	SCREEN 2	PM25-PRI	0.15500	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	002	3	1	SCREEN 3	PM25-PRI	0.13600	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	003	1	1	WIND EROSION	PM25-PRI	0.61300	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	004	1	1	STORAGE PILES	PM25-PRI	2.72000	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	1	1	ROAD EMISSIONS - TRUCKS	PM25-PRI	0.17600	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	2	1	ROAD EMISSIONS - 970F LOAD	PM25-PRI	0.04600	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	3	1	ROAD EMISSIONS - 950E LOAD	PM25-PRI	0.05900	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	005	4	1	ROAD EMISSIONS - 950B LOAD	PM25-PRI	0.07300	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	PM25-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	SO2	0.34600	2014	ANNUAL	MACTECPROJ(2012)
MID-CONTINENT COAL AND COKE	4200301031	006	1	1	EQUIPMENT FUEL USAGE	VOC	0.00200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	NOX	0.08300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	NOX	0.12700	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	NOX	0.12500	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	NOX	0.00600	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	NOX	0.00600	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	NOX	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	NOX	0.30000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	NOX	0.09200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	1	5	SMALL BURNOFF OVEN, COATNG	NOX	0.00700	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	NOX	0.02200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	1	6	LARGE BURNOFF OVEN, COATNG	NOX	0.00300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	NOX	0.03300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	PM10-PRI	0.00600	2014	ANNUAL	MACTECPROJ(2012)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	PM10-PRI	0.01000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A09	1	1	COLLAPSIBLE BLASTING ROOM	PM10-PRI	0.01800	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	PM10-PRI	0.00900	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	1	9	SKIN/TIN AREA	PM10-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	PM10-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	PM10-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	PM10-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	PM10-PRI	0.02300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	PM10-PRI	0.00800	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	PM10-PRI	0.00200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	PM10-PRI	0.00300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	PM25-PRI	0.00600	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	PM25-PRI	0.01000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A09	1	1	COLLAPSIBLE BLASTING ROOM	PM25-PRI	0.00200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	PM25-PRI	0.00900	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	1	9	SKIN/TIN AREA	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	PM25-PRI	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	PM25-PRI	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	PM25-PRI	0.02300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	PM25-PRI	0.00500	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	PM25-PRI	0.00200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	PM25-PRI	0.00300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	SO2	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	SO2	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	SO2	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	SO2	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	SO2	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	SO2	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	SO2	0.00200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	SO2	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	1	5	SMALL BURNOFF OVEN, COATNG	SO2	0.00400	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	SO2	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	1	6	LARGE BURNOFF OVEN, COATNG	SO2	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	SO2	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	1	3	LARGE BAKE OVEN, NG	VOC	0.00400	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A03	4	3	LARGE BAKE OVEN, NG	VOC	0.02900	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	1	4	SMALL BAKE OVEN, NG	VOC	0.00700	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A04	2	4	SMALL BAKE OVEN, NG	VOC	0.21500	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A10	1	2	PAINT SPRAY BOOTH	VOC	0.48100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	1	7	COIL MFG. OVEN 3 UNITS NG	VOC	0.00700	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A14	2	7	COIL MFG. OVEN 3 UNITS NG	VOC	0.52300	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A15	2	9	SKIN/TIN AREA	VOC	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A16	1	10	GAS INSULATOR	VOC	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	A17	1	1	COIL PRESSING AREA	VOC	0.00000	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	D03	1	1	U-372 STORAGE	VOC	0.03500	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	D04	1	1	U-475 STORAGE	VOC	0.03500	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	D05	1	1	TSR-601 VARNISH TANK	VOC	0.06900	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	D06	1	1	B-373 RESIN STORAGE	VOC	0.05800	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	D07	1	1	B-619 RESIN STORAGE	VOC	0.00400	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	G08	1	1	MISC FUGITIVE	VOC	0.87600	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	I01	1	1	SPACE HEATERS, NG	VOC	0.01600	2014	ANNUAL	MACTECPROJ(2012)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
PENNSYLVANIA ELECTRIC COIL	4200300332	I02	1	8	BOILER	VOC	0.00200	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	1	5	SMALL BURNOFF OVEN, COATNG	VOC	0.27400	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P01	2	5	SMALL BURNOFF OVEN, NG	VOC	0.00100	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	1	6	LARGE BURNOFF OVEN, COATNG	VOC	0.09700	2014	ANNUAL	MACTECPROJ(2012)
PENNSYLVANIA ELECTRIC COIL	4200300332	P02	2	6	LARGE BURNOFF OVEN, NG	VOC	0.00200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	NH3	0.00700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	NH3	0.15200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	NH3	0.00500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	NH3	0.00700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	NH3	0.17200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	NH3	0.00500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	NH3	0.00700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	NH3	0.16200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	NH3	0.00500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	NH3	0.00700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	NH3	0.15200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	NH3	0.00400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	NH3	0.00700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	NH3	0.15200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	NH3	0.00400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	NH3	0.00700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	NH3	0.16200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	NH3	0.00600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	NH3	0.01100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	NH3	0.25400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	NH3	0.00600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	NH3	0.01100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	NH3	0.23300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	NH3	0.01100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	NH3	0.01100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	NH3	0.22300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	NH3	0.00200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	NH3	0.02000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	NH3	0.01000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	NH3	0.02000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	NH3	0.10100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	NH3	0.38500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	NH3	0.24300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	NH3	0.19300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	NH3	0.57800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	NH3	0.61900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	NH3	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	NH3	0.01100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	NH3	0.01500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	NH3	0.00100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	NH3	0.13400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	NH3	0.01400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	NH3	0.01800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	NH3	0.00100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	NH3	0.14400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	NH3	0.01500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	NH3	0.01900	2014	ANNUAL	MACTECPROJ(2012)

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US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	NH3	0.00100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	NH3	0.12200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	NH3	0.00600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	NH3	0.00600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	NH3	0.00000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	NH3	14.63100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	032	1	947A	QUENCH TOWER 5A	NH3	0.00924	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	033	1	948A	QUENCH TOWER 7A	NH3	0.00924	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	NH3	15.80100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	NH3	0.56164	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	NH3	0.44028	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	NH3	0.01300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	NH3	0.00800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	NH3	0.00800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	NH3	0.00800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	061	1	9999	BY-PRODUCT EQUIP LEAKS	NH3	0.00000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	NH3	0.00000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	086	1	9999	WWT, AERATION	NH3	218.33700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	NH3	0.01300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	NH3	0.74800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	BC	2	9999	BATTERY C DOOR LEAKS	NH3	0.06900	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	BC	4	9999	BATTERY C OFFTAKE, LIDS	NH3	0.00858	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	1	29	PEC BAGHOUSE C, STACK	NH3	0.13800	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	2	934	HOT CAR C, NO STACK	NH3	0.00819	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	3	939	PUSHING FUGITIVES C	NH3	0.01880	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	4	944	UNCONTROLLED PUSH C	NH3	0.00047	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	QC	1	949	QUENCH TOWER C	NH3	0.00924	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	UC	1	24	BATTERY C, UNDERFIRING	NH3	0.04290	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	NOX	0.09100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	NOX	0.09100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	NOX	0.09100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	NOX	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	NOX	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	NOX	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	NOX	0.18300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	NOX	0.18300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	NOX	0.30400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	NOX	339.39700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	NOX	350.76500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	NOX	361.80700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	NOX	257.42300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	NOX	227.70100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	NOX	194.61300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	NOX	638.84100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	NOX	968.14900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	NOX	459.38800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	NOX	9.33200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	NOX	0.94000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	NOX	1.28500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	NOX	0.07400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	NOX	11.20400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	NOX	1.12900	2014	ANNUAL	MACTECPROJ(2012)

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US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	NOX	1.54300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	NOX	0.09600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	NOX	11.99900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	NOX	1.20900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	NOX	1.65300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	NOX	0.10800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	NOX	10.99900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	NOX	0.42500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	NOX	0.60800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	NOX	0.00200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	NOX	446.78000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	NOX	43.65000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	NOX	263.03000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	NOX	26.82000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	NOX	6.62000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	NOX	4.14300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	NOX	4.01600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	NOX	4.01600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	NOX	80.25200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	NOX	33.43800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	NOX	1.70200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	NOX	0.00300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	NOX	0.40600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	NOX	7.12400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	BC	5	9999	BATTERY C SOAKING	NOX	0.30000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	1	29	PEC BAGHOUSE C, STACK	NOX	15.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	2	934	HOT CAR C, NO STACK	NOX	6.40000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	3	939	PUSHING FUGITIVES C	NOX	0.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	4	944	UNCONTROLLED PUSH C	NOX	0.20000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	6	9999	PRE-PUSH C	NOX	0.00600	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	UC	1	24	BATTERY C, UNDERFIRING	NOX	461.20000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	PM10-PRI	0.08600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	PM10-PRI	1.77500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	PM10-PRI	0.05600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	PM10-PRI	0.60117	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	PM10-PRI	0.08600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	PM10-PRI	2.00800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	PM10-PRI	0.06100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	PM10-PRI	0.60117	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	PM10-PRI	0.08600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	PM10-PRI	1.92700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	PM10-PRI	0.06300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	PM10-PRI	0.60117	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	PM10-PRI	0.08600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	PM10-PRI	1.79500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	PM10-PRI	0.05800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	PM10-PRI	0.10443	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	PM10-PRI	0.08600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	PM10-PRI	1.84500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	PM10-PRI	0.05300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	PM10-PRI	0.10443	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	PM10-PRI	0.08600	2014	ANNUAL	MACTECPROJ(2012)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	PM10-PRI	1.92700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	PM10-PRI	0.05100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	PM10-PRI	0.10443	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	PM10-PRI	0.13600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	PM10-PRI	2.95100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	PM10-PRI	0.06700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	PM10-PRI	1.16056	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	PM10-PRI	0.13600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	PM10-PRI	2.69700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	PM10-PRI	0.08100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	PM10-PRI	1.16056	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	PM10-PRI	0.13000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	PM10-PRI	1.81500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	PM10-PRI	0.02400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	PM10-PRI	1.94784	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	PM10-PRI	17.48537	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	PM10-PRI	26.33032	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	PM10-PRI	16.03920	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	PM10-PRI	10.85200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	PM10-PRI	10.71444	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	PM10-PRI	9.58056	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	PM10-PRI	26.92132	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	PM10-PRI	21.37581	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	PM10-PRI	28.92469	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	PM10-PRI	2.22800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	PM10-PRI	36.69400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	PM10-PRI	49.67400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	PM10-PRI	2.88400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	5	9999	BALL MILL 1-3	PM10-PRI	0.30266	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	6	9999	PRE-PUSH 1-3	PM10-PRI	5.17190	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	PM10-PRI	3.01600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	PM10-PRI	44.09900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	PM10-PRI	59.66100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	PM10-PRI	3.73300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	5	9999	BALL MILL 13-15	PM10-PRI	0.45900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	6	9999	PRE-PUSH 13-15	PM10-PRI	6.21220	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	PM10-PRI	3.27700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	PM10-PRI	47.25100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	PM10-PRI	63.89800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	PM10-PRI	4.23400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	5	9999	BALL MILL 19-20	PM10-PRI	0.47500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	6	9999	PRE-PUSH 19-20	PM10-PRI	6.65628	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	PM10-PRI	12.13600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	PM10-PRI	15.95000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	PM10-PRI	20.98300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	PM10-PRI	0.06400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	5	9999	BALL MILL B	PM10-PRI	0.61500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	6	9999	PRE-PUSH B	PM10-PRI	5.58581	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	PM10-PRI	328.28668	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	032	1	947A	QUENCH TOWER 5A	PM10-PRI	105.50000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	033	1	948A	QUENCH TOWER 7A	PM10-PRI	105.50000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	PM10-PRI	354.81828	2014	ANNUAL	ACHD(2014)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	PM10-PRI	27.53861	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	PM10-PRI	1.34900	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	PM10-PRI	21.58781	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	PM10-PRI	1.06400	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	PM10-PRI	0.85120	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	PM10-PRI	0.53200	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	PM10-PRI	0.51680	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	PM10-PRI	0.51680	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	063	1	9999	UNLOADING 1	PM10-PRI	0.62700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	063	2	9999	UNLOADING 2	PM10-PRI	0.51000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	064	1	973	PEDESTAL CRANE	PM10-PRI	0.05600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	065	1	974	CLAMSHELL UNLOAD	PM10-PRI	0.16900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	066	1	9999	COAL TRANSFER	PM10-PRI	1.62500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	067	1	9999	PULVERIZERS	PM10-PRI	0.20481	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	069	1	9999	COAL BINS/BUNKERS	PM10-PRI	0.01300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	070	1	9999	COAL EROSION	PM10-PRI	12.32000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	071	1	9999	COKE TRANSFER 1-3, B, C	PM10-PRI	8.79700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	072	1	9999	COKE TRANSFER 13-15, 19-20	PM10-PRI	7.26600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	073	1	9999	COKE PILE, LOAD/UNLOAD	PM10-PRI	0.07200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	074	1	9999	SCREENING 1 (1-3)	PM10-PRI	3.06100	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	074	2	9999	SCREENING 1 LOADOUT	PM10-PRI	0.13700	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	075	1	9999	SCREENING 2 (13-15, 19-20)	PM10-PRI	7.67500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	075	2	9999	SCREENING 2 LOADOUT	PM10-PRI	0.34300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	077	1	9999	COKE PILE EROSION	PM10-PRI	6.54000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	078	1	9999	BLASTING	PM10-PRI	0.62600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	079	1	9999	PLANT ROADS - PAVED	PM10-PRI	15.84500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	079	2	9999	PLANT ROADS - UNPAVED	PM10-PRI	4.99500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	PM10-PRI	13.59400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	PM10-PRI	5.66400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	PM10-PRI	3.40000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	084	1	9999	COOLING TOWER	PM10-PRI	0.31800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	PM10-PRI	0.00700	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	65A	1	974	FRONT END LOADER TO TRUCK	PM10-PRI	0.17100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	65A	2	974	TRUCK TO HOPPER	PM10-PRI	0.17100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	65A	3	974	HOPPER TO CONVEYOR	PM10-PRI	0.08500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	65A	4	974	CONVEYOR TO BARGE	PM10-PRI	0.17100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	PC	1	29	PEC BAGHOUSE C, STACK	PM10-PRI	14.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	2	934	HOT CAR C, NO STACK	PM10-PRI	5.20000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	3	939	PUSHING FUGITIVES C	PM10-PRI	65.80000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	4	944	UNCONTROLLED PUSH C	PM10-PRI	2.00000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	5	9999	BALL MILL C	PM10-PRI	0.01708	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	6	9999	PRE-PUSH C	PM10-PRI	6.64900	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	QC	1	949	QUENCH TOWER C	PM10-PRI	105.50000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	SCD	2	9999	SCREENING 4 LOADOUT	PM10-PRI	0.10994	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	SCD	3	9999	SCREENING 4 FUGITIVES	PM10-PRI	0.14980	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	UC	1	24	BATTERY C, UNDERFIRING	PM10-PRI	16.80000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	PM25-PRI	0.07667	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	PM25-PRI	1.57965	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	PM25-PRI	0.04905	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	PM25-PRI	0.60117	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	PM25-PRI	0.07667	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	PM25-PRI	1.78761	2014	ANNUAL	ACHD(2014)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	PM25-PRI	0.05430	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	PM25-PRI	0.60117	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	PM25-PRI	0.07667	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	PM25-PRI	1.71562	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	PM25-PRI	0.05605	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	PM25-PRI	0.60117	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	PM25-PRI	0.07667	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	PM25-PRI	1.59266	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	PM25-PRI	0.05080	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	PM25-PRI	0.10443	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	PM25-PRI	0.07667	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	PM25-PRI	1.64364	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	PM25-PRI	0.04729	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	PM25-PRI	0.10443	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	PM25-PRI	0.07667	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	PM25-PRI	1.66379	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	PM25-PRI	0.04554	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	PM25-PRI	0.10443	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	PM25-PRI	0.12086	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	PM25-PRI	1.41042	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	PM25-PRI	0.05955	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	PM25-PRI	1.16056	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	PM25-PRI	0.12086	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	PM25-PRI	2.40583	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	PM25-PRI	0.07182	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	PM25-PRI	1.16056	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	PM25-PRI	0.11561	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	PM25-PRI	0.88383	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	PM25-PRI	0.02102	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	PM25-PRI	1.94784	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	PM25-PRI	14.33227	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	PM25-PRI	21.58223	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	PM25-PRI	13.14689	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	PM25-PRI	8.89508	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	PM25-PRI	8.78233	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	PM25-PRI	7.85292	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	PM25-PRI	11.85009	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	PM25-PRI	17.52116	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	PM25-PRI	12.73003	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	PM25-PRI	1.95109	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	PM25-PRI	3.05208	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	PM25-PRI	13.96269	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	PM25-PRI	0.73713	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	025	5	9999	BALL MILL 1-3	PM25-PRI	0.30266	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	025	6	9999	PRE-PUSH 1-3	PM25-PRI	5.17190	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	PM25-PRI	2.62566	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	PM25-PRI	3.66600	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	PM25-PRI	16.02044	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	PM25-PRI	0.95544	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	027	5	9999	BALL MILL 13-15	PM25-PRI	0.45240	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	027	6	9999	PRE-PUSH 13-15	PM25-PRI	6.21220	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	PM25-PRI	2.85585	2014	ANNUAL	ACHD(2014)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	PM25-PRI	3.92806	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	PM25-PRI	17.39481	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	PM25-PRI	1.61131	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	028	5	9999	BALL MILL 19-20	PM25-PRI	0.46824	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	028	6	9999	PRE-PUSH 19-20	PM25-PRI	6.65628	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	PM25-PRI	5.90117	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	PM25-PRI	2.49923	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	PM25-PRI	3.33095	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	PM25-PRI	0.02437	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	029	5	9999	BALL MILL B	PM25-PRI	0.60648	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	029	6	9999	PRE-PUSH B	PM25-PRI	5.58581	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	PM25-PRI	274.84500	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	032	1	947A	QUENCH TOWER 5A	PM25-PRI	102.10218	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	033	1	948A	QUENCH TOWER 7A	PM25-PRI	102.50076	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	PM25-PRI	338.99015	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	PM25-PRI	21.88594	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	PM25-PRI	1.34900	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	PM25-PRI	17.15662	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	PM25-PRI	1.06400	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	PM25-PRI	0.67650	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	PM25-PRI	0.42280	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	PM25-PRI	0.41072	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	PM25-PRI	0.41072	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	063	1	9999	UNLOADING 1	PM25-PRI	0.10468	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	063	2	9999	UNLOADING 2	PM25-PRI	0.07684	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	064	1	973	PEDESTAL CRANE	PM25-PRI	0.00857	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	065	1	974	CLAMSHELL UNLOAD	PM25-PRI	0.03592	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	066	1	9999	COAL TRANSFER	PM25-PRI	0.25273	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	067	1	9999	PULVERIZERS	PM25-PRI	0.20481	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	069	1	9999	COAL BINS/BUNKERS	PM25-PRI	0.00132	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	070	1	9999	COAL EROSION	PM25-PRI	0.00000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	071	1	9999	COKE TRANSFER 1-3, B, C	PM25-PRI	1.62542	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	072	1	9999	COKE TRANSFER 13-15, 19-20	PM25-PRI	1.08420	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	073	1	9999	COKE PILE, LOAD/UNLOAD	PM25-PRI	0.01074	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	074	1	9999	SCREENING 1 (1-3)	PM25-PRI	0.63422	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	074	2	9999	SCREENING 1 LOADOUT	PM25-PRI	0.02059	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	075	1	9999	SCREENING 2 (13-15, 19-20)	PM25-PRI	1.58948	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	075	2	9999	SCREENING 2 LOADOUT	PM25-PRI	0.05085	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	077	1	9999	COKE PILE EROSION	PM25-PRI	0.96010	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	078	1	9999	BLASTING	PM25-PRI	0.06000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	079	1	9999	PLANT ROADS - PAVED	PM25-PRI	0.44000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	079	2	9999	PLANT ROADS - UNPAVED	PM25-PRI	0.29000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	PM25-PRI	5.64000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	PM25-PRI	4.38000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	PM25-PRI	3.40000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	084	1	9999	COOLING TOWER	PM25-PRI	0.31000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	PM25-PRI	0.00700	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	65A	1	974	FRONT END LOADER TO TRUCK	PM25-PRI	0.02487	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	65A	2	974	TRUCK TO HOPPER	PM25-PRI	0.02487	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	65A	3	974	HOPPER TO CONVEYOR	PM25-PRI	0.01244	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	65A	4	974	CONVEYOR TO BARGE	PM25-PRI	0.02487	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	1	29	PEC BAGHOUSE C, STACK	PM25-PRI	6.13638	2014	ANNUAL	ACHD(2014)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	PC	2	934	HOT CAR C, NO STACK	PM25-PRI	1.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	3	939	PUSHING FUGITIVES C	PM25-PRI	40.70000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	4	944	UNCONTROLLED PUSH C	PM25-PRI	1.69300	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	5	9999	BALL MILL C	PM25-PRI	0.01708	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	6	9999	PRE-PUSH C	PM25-PRI	6.22000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	QC	1	950	QUENCH TOWER C	PM25-PRI	102.76093	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	SCD	2	9999	SCREENING 4 LOADOUT	PM25-PRI	0.10994	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	SCD	3	9999	SCREENING 4 FUGITIVES	PM25-PRI	0.14980	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	UC	1	24	BATTERY C, UNDERFIRING	PM25-PRI	16.63962	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	5	9999	BATTERY 1 SOAKING	SO2	10.72900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	5	9999	BATTERY 2 SOAKING	SO2	10.72900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	5	9999	BATTERY 3 SOAKING	SO2	10.72900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	5	9999	BATTERY 13 SOAKING	SO2	0.67900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	5	9999	BATTERY 14 SOAKING	SO2	0.67900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	5	9999	BATTERY 15 SOAKING	SO2	0.67900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	5	9999	BATTERY 19 SOAKING	SO2	3.52900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	5	9999	BATTERY 20 SOAKING	SO2	3.52900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	5	9999	BATTERY B SOAKING	SO2	4.63400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	SO2	36.91100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	SO2	43.94800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	SO2	45.35800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	SO2	38.47200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	SO2	21.19300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	SO2	42.72100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	SO2	62.05900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	SO2	69.84700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	SO2	75.40400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	SO2	48.05900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	SO2	4.83900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	SO2	6.59400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	SO2	0.38100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	SO2	57.69500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	SO2	5.81300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	SO2	7.91600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	SO2	0.49200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	SO2	61.79200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	SO2	6.22800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	SO2	8.47900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	SO2	0.55900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	SO2	56.51200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	SO2	2.24900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	SO2	2.97800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	SO2	0.00800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	SO2	2.98200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	032	1	947A	QUENCH TOWER 5A	SO2	12.80000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	033	1	948A	QUENCH TOWER 7A	SO2	12.80000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	SO2	3.22100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	SO2	151.57000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	SO2	0.10650	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	SO2	115.32000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	SO2	0.08400	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	SO2	4.84100	2014	ANNUAL	MACTECPROJ(2012)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	SO2	3.40800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	SO2	2.68700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	SO2	3.19800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	SO2	6.35800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	SO2	2.64900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	SO2	155.31500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	SO2	0.05900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	SO2	0.00200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	SO2	0.09200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	BC	5	9999	BATTERY C SOAKING	SO2	34.10000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	1	29	PEC BAGHOUSE C, STACK	SO2	59.50000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	2	934	HOT CAR C, NO STACK	SO2	24.10000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	3	939	PUSHING FUGITIVES C	SO2	3.50000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	4	944	UNCONTROLLED PUSH C	SO2	0.80000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	6	9999	PRE-PUSH C	SO2	0.02300	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	QC	1	949	QUENCH TOWER C	SO2	12.80000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	UC	1	24	BATTERY C, UNDERFIRING	SO2	91.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	001	1	9999	BATTERY 1 CHARGING	VOC	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	2	9999	BATTERY 1 DOOR LEAKS	VOC	2.23100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	001	4	9999	BATTERY 1 TOPSIDE LEAKS	VOC	0.07100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	1	9999	BATTERY 2 CHARGING	VOC	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	2	9999	BATTERY 2 DOOR LEAKS	VOC	2.52500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	002	4	9999	BATTERY 2 TOPSIDE LEAKS	VOC	0.07600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	1	9999	BATTERY 3 CHARGING	VOC	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	2	9999	BATTERY 3 DOOR LEAKS	VOC	2.43400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	003	4	9999	BATTERY 3 TOPSIDE LEAKS	VOC	0.08000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	1	9999	BATTERY 13 CHARGING	VOC	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	2	9999	BATTERY 13 DOOR LEAKS	VOC	2.26100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	007	4	9999	BATTERY 13 TOPSIDE LEAKS	VOC	0.07100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	1	9999	BATTERY 14 CHARGING	VOC	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	2	9999	BATTERY 14 DOOR LEAKS	VOC	2.32200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	008	4	9999	BATTERY 14 TOPSIDE LEAKS	VOC	0.07100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	1	9999	BATTERY 15 CHARGING	VOC	0.11200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	2	9999	BATTERY 15 DOOR LEAKS	VOC	2.42400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	009	4	9999	BATTERY 15 TOPSIDE LEAKS	VOC	0.06400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	1	9999	BATTERY 19 CHARGING	VOC	0.17200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	2	9999	BATTERY 19 DOOR LEAKS	VOC	3.72100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	010	4	9999	BATTERY 19 TOPSIDE LEAKS	VOC	0.08500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	1	9999	BATTERY 20 CHARGING	VOC	0.17200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	2	9999	BATTERY 20 DOOR LEAKS	VOC	3.39700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	011	4	9999	BATTERY 20 TOPSIDE LEAKS	VOC	0.10100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	1	9999	BATTERY B CHARGING	VOC	0.16200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	2	9999	BATTERY B DOOR LEAKS	VOC	3.39700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	012	4	9999	BATTERY B TOPSIDE LEAKS	VOC	0.03000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	013	1	13	BATTERY 1, UNDERFIRING	VOC	2.43800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	014	1	14	BATTERY 2, UNDERFIRING	VOC	2.43800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	015	1	15	BATTERY 3, UNDERFIRING	VOC	2.43800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	019	1	19	BATTERY 13, UNDERFIRING	VOC	2.92900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	020	1	20	BATTERY 14, UNDERFIRING	VOC	2.92900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	021	1	21	BATTERY 15, UNDERFIRING	VOC	0.89200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	022	1	22	BATTERY 19, UNDERFIRING	VOC	4.70700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	023	1	23	BATTERY 20, UNDERFIRING	VOC	4.70700	2014	ANNUAL	MACTECPROJ(2012)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	024	1	24	BATTERY B, UNDERFIRING	VOC	7.90100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	1	25	PEC BAGHOUSE 1-3, STACK	VOC	1.73200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	2	930	HOT CAR 1-3, NO STACK	VOC	0.17400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	3	935	PUSHING FUGITIVES 1-3	VOC	0.23500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	025	4	940	UNCONTROLLED PUSH 1-3	VOC	0.01400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	1	27	PEC BAGHOUSE 13-15, STACK	VOC	2.08000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	2	932	HOT CAR 13-15, NO STACK	VOC	0.21000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	3	937	PUSHING FUGITIVES 13-15	VOC	0.28200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	027	4	942	UNCONTROLLED PUSH 13-15	VOC	0.01800	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	1	28	PEC BAGHOUSE 19-20, STACK	VOC	2.22700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	2	933	HOT CAR 19-20, NO STACK	VOC	0.22500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	3	938	PUSHING FUGITIVES 19-20	VOC	0.30200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	028	4	943	UNCONTROLLED PUSH 19-20	VOC	0.02000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	1	29	PEC BAGHOUSE B, STACK	VOC	2.03600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	2	934	HOT CAR B, NO STACK	VOC	0.08200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	3	939	PUSHING FUGITIVES B	VOC	0.10600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	029	4	944	UNCONTROLLED PUSH B	VOC	0.00000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	030	1	945	QUENCH TOWER 1	VOC	1.12500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	032	1	947A	QUENCH TOWER 5A	VOC	43.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	033	1	948A	QUENCH TOWER 7A	VOC	43.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	034	1	949	QUENCH TOWER B	VOC	1.21600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	035	1	50	BOILER 1	VOC	4.34820	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	036	1	50	BOILER 1	VOC	0.97625	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	038	1	53	BOILER 2	VOC	3.40860	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	039	1	53	BOILER 2	VOC	0.77000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	047	1	59	BOILER R1	VOC	0.10100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	049	1	59	BOILER R2	VOC	0.06300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	051	1	62	BOILER T1	VOC	0.06100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	053	1	63	BOILER T2	VOC	0.06100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	057	1	9999	TAR STORAGE/SEPARTN TANKS	VOC	0.02000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	059	1	9999	FINAL COOLER SUMP	VOC	1.90000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	061	1	9999	BY-PRODUCT EQUIP LEAKS	VOC	1.23700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	062	1	9999	TAR COLLECTING TANKS	VOC	0.01000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	080	1	9999	HEAVY DUTY VEHICLE EXHAUST	VOC	4.73600	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	081	1	9999	TUG BOAT EXHAUST	VOC	1.97300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	082	1	9999	MAINTENANCE	VOC	4.90200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	082	2	9999	MAINTENANCE	VOC	5.02500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	083	1	83	SCOT HYDROGENATION UNIT	VOC	128.47500	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	085	1	9999	FLARING	VOC	0.00300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	086	1	9999	WWT, AERATION	VOC	14.53300	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	087	1	9999	METHANOL, AIR LINES	VOC	20.59400	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	087	2	9999	METHANOL, AIR LINES	VOC	42.55200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	087	3	9999	METHANOL, AIR LINES	VOC	0.01000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	088	1	2010	WWT, SURGE, AMMON FLARE	VOC	0.00200	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	089	1	2010	AMMON TANKER LOAD, FLARE	VOC	0.07700	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	091	1	9999	LIGHT OIL TANKS	VOC	0.77100	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	092	1	9999	LIGHT OIL LOADING	VOC	17.03900	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	093	1	9999	LIGHT OIL DECANTERS	VOC	0.52000	2014	ANNUAL	MACTECPROJ(2012)
US STEEL CORP - CLAIRTON	4200300032	BC	1	9999	BATTERY C CHARGING	VOC	0.50000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	BC	2	9999	BATTERY C DOOR LEAKS	VOC	2.60000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	BC	4	9999	BATTERY C OFFTAKE, LIDS	VOC	0.20000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	BC	5	9999	BATTERY C SOAKING	VOC	2.10000	2014	ANNUAL	ACHD(2014)

Facility Name	Facility Identifier	Unit ID	Process ID	Point ID	Process Description	Pollutant Code	Emission Ton	Year	Emission Period	Data Source
US STEEL CORP - CLAIRTON	4200300032	PC	1	29	PEC BAGHOUSE C, STACK	VOC	1.20000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	3	939	PUSHING FUGITIVES C	VOC	20.40000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	4	944	UNCONTROLLED PUSH C	VOC	0.60000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	PC	6	9999	PRE-PUSH C	VOC	0.00100	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	QC	1	949	QUENCH TOWER C	VOC	43.90000	2014	ANNUAL	ACHD(2014)
US STEEL CORP - CLAIRTON	4200300032	UC	1	24	BATTERY C, UNDERFIRING	VOC	5.00000	2014	ANNUAL	ACHD(2014)

ACHD Emissions Inventory Reporting Instructions, 2008
Stationary Point Sources

Background

This inventory is intended to incorporate a number of emission reporting requirements within one package. The information gathered is used for compliance purposes, general information concerning air emissions in the County, and meeting legal requirements under County, State and Federal law.

Allegheny County is currently classified as "attainment" for the National Ambient Air Quality Standards for ozone. However, this situation is likely to be short-lived. The County is unlikely to be able to meet the 8 hour ozone standard expected to be implemented shortly now that the legal challenges have been resolved in the EPA's favor. This inventory provides information to help assess and resolve this situation.

Information submitted is entered into a computer data system at the Health Department's Air Quality Program (AQP) and will be used in future years to simplify the reporting of the needed inventory information. We also wish to have consistency among sources included in Title V, "Synthetic Minor" permits and in the inventory system.

Emission information is transferred to the EPA and they transfer it to the Internet.

Facilities Included In This Inventory

The facilities included in this inventory at a minimum are:

*Title V facilities
*Synthetic Minor facilities,
*Natural Minor facilities not exempt from State Plan Approvals,
*Facilities that emit any criteria pollutant in amounts equal to or greater than 25 tons per year

Facilities that receive this package must respond to the data request to comply with the requirements of the Clean Air Act.

Assistance Resources (Air Help)

The 1990 amendments to the Clean Air Act placed new requirements on smaller facilities. Pennsylvania's new AIR HELP Program helps small businesses in the Commonwealth understand the new requirements of the Clean Air Act. The program is funded by the Commonwealth of Pennsylvania but is managed by PRC Environmental Management, Inc., an independent contractor. All AIR HELP services are provided to small businesses free of charge and with complete confidentiality. The services include:

Toll-free Hot line 1-800-PA-AIRHELP (1-800-722-4743) TDD 1-800-208-0937.
Website-http://www.pa-envirohelp.org/
A computer bulletin board service 800-864-7594
Brochures and pamphlets
Site visits to help determine the regulations that might apply to your facility
Review of permit applications for completeness and accuracy.
Small Business Ombudsman to help locate sources of funding for compliance with air pollution regulations.

Emission Sources to Include In the Inventory

Please include all air emission sources at the facility. This includes air pollution sources, control equipment, and stack emission points. Sources that were included in earlier emission inventories and, if Title V requirements are applicable, emission components listed in the Title V application should also be included in this inventory.

Fugitive emissions must be reported and can be listed as separate stacks (expressed as a vent height) and processes with associated emissions. Most often these emissions will be for VOCs but may also include particulate matter. This applies to both plant and vehicle fugitive emissions. Vehicle fugitive emissions originate from not only vehicles but also roads on the premises

Please do not neglect vehicle emissions. Vehicle emissions from facility dedicated vehicles that do not operate on public roads or exit plant property must be reported as point source emissions from the facility. This includes tailpipe emissions and emissions from travel over the firm's property by site dedicated vehicles. **See Section 6.0 for how to calculate emissions for travel by site-dedicated vehicles over unpaved roads.**

Emissions from non-dedicated vehicles must be reported as point source emissions from the facility for travel over unpaved roads and areas on the facility property. Non-dedicated vehicles driven to the site then parked on the property for the duration of the workday should not be included in the inventory. They are included in the state and federal mobile inventory. When sources report them in the point source inventory, they are contributing to double counting which can impact attainment area designations and thus economic development.

Consistency of structure:

The I-Steps Satellite Zip File available to each firm on the Air Quality Program Website represents each facility's current structure in the inventory. This structure indicates how equipment is identified and organized at your specific facility in the inventory. **Please maintain this structure for existing equipment for the 2008 inventory to insure consistent identifiers between our inventory system and information sent to the national computer database, NET as well as your permits and permit applications.**

New equipment or equipment not listed in the inventory for a previous year should be included in this inventory. Old stack, point or process unit numbers cannot be reused. Assign new numbers to such equipment as appropriate.

Aggregation of sources:

Individual sources need to be identified. However, some small sources can be aggregated in the emissions system. The aggregating of sources should be consistent with that required for the permit requirements for Title V and synthetic minor sources. In some cases an acceptable aggregation of sources may not be available until a Title V permit is completed. Synthetic minor sources will need to be reported consistent with information provided in their synthetic minor application. **An example of aggregation of sources would be tanks of the same design and size used to store the same materials.**

Accidental Releases

Unplanned unintentional releases of air emissions must be reported in this inventory. This is done by creating an emission point for the accidental release which can be deleted for years following the year in which it occurred.

Reporting Hazardous Air Pollutants (HAP) Emissions for the National Toxics Inventory

The EPA continues to demand a significant increase in the level of detail for the reporting of HAPS in emission inventories for 2008. Where state and local agencies are unable to supply HAP emission inventory data, the EPA will prepare default emission inventory data for the 2008 National Toxics Inventory (NTI) .Sources should report emissions not only of specific compounds categorized as HAPS but also for pollutants within compound groups such as glycol ethers, metal compounds and polycyclic organic matter also categorized as HAPS. The EPA is making all emission inventory data available on the Internet. Therefore, the Air Quality Program believes it is in the best interest of every source to comply to the extent practicable with the instructions below. Further, all firms should be aware that the Air Quality Program compares the data submitted in their emission inventory to that submitted in the same firm's Toxic Release Inventory for consistency and accuracy.

Hazardous Air Pollutant Reporting Levels.

The ACHD Air Quality Program will use a base of 200 pounds per year or 0.1 ton for each pollutant at each point source facility for all hazardous air pollutants with the exception of those discussed below.

To report much of the total risk from HAPs several HAP compounds will be reported at lower rates. The compounds listed below will be reported down to de-minimus levels on a process basis.

* Chromium Compounds
* Mercury Compounds
* Polycyclic Organic Matter Compounds.

For these compounds manual methods will be used to report lesser values.

* Dioxin Compounds
* Furan Compounds

We would recommend all sources review their MSDS's to determine if they use any of these compounds at their facilities. Review AP-42 to determine if any of your processes generate them. AP- 42 and Factor Information Retrieval System (FIRE) does list factors for these compounds for many processes. Be sure you use the latest version of the section or the FIRE SOFTWARE. FIRE software as well as AP-42 can be downloaded from the EPA Emission Factor Inventory site

If unsure as to how to incorporate your data into your facilities annual emission inventory, supply the Department with your backup data and as much information as possible and we will amend the emission inventory.

1. Pollutants are to be reported using Chemical Abstract Services Numbers whenever possible. Please report individual compounds in the emission inventory whenever feasible.

2. Aggregated compound group emissions will be accepted, if necessary. However, the EPA will use simplifying assumptions to speciate compound group emissions.

EPA Reporting Recommendations/ Strategies in order of Preference

For Pollutant groups only one reporting strategy per HAP group per source should be used. Use of more than one reporting strategy can result in the same emission being counted twice. An example would be reporting both individual chromium compounds and total chromium for the same source.

Metals and Cyanide Groups

1. Separate emissions of metals from those of metal compounds.
   Example: arsenic - CAS# - amount emitted
   Lead arsenate - CAS# - amount emitted

All individual compounds should be reported as mass of the total compounds not just the metal within the compound.

2. Report two forms of the toxic material of widely - varying toxicity. This alternative method is especially applicable to chromium, lead, mercury and nickel.
Report only the mass emissions of the metal not the entire metal compound
Example: Trivalent Chromium- CAS# 16065831
Hexavalent Chromium- CAS# 18540299
Separate lead compounds into organic and inorganic species.
Separate mercury compounds into organic (CAS# 22967926) and inorganic (CAS#7439976)
Separate nickel compounds into nickel subsulfide (CAS# 12035722) and other nickel (CAS#7440020)
For all other metal and cyanide groups report total emissions in terms of the mass of the metal or cyanide alone under the CAS# of the metal or cyanide.

Polycyclic Organic Matter Compounds

1. Identify and report as many individual POM compounds with associated CAS numbers as possible. It is especially important to differentiate the seven PAH compounds from POM. The following seven PAH compounds should be reported individually if at all possible as well as the POM compounds for which cancer assessments are available. See Table B. Clearly identify what is being inventoried as POM.

2. If individual PAH's cannot be reported, then report 7-PAH as a subgroup.

3. Naphthalene is a HAP and should be reported individually not as total POM. If it is a component of total POM and a source reports total POM, then naphthalene form the source of total POM does not need to be reported individually.

4. If it is not possible to report emissions of 7-PAH then report emissions as total POM.

Dioxins/Furans

1. Report mass emissions and the associated CAS#'s of all individual congeners of chlorinated dibenzodioxins (CDDs) and chlorinated dibenzofurans (CDFs).

2. If it is not possible to identify individual congeners, then report dioxins and furans as 2,3,7,8 Tetrachlorodibenzodioxin (TCDD) toxic equivalents (TEQ) under the HAP name "dioxins/furans as TEQ". **Do not report dioxins/furans with POM emissions.**

3. Report emissions as total dioxins or total furans where it is not possible to report individual congeners.

Xylenes and Cresols.

1. Report emissions for individual xylene and cresol isomers with their associated CAS#'s. Do not report any emissions for total xylenes or cresols.

2. If you cannot report individual emissions of isomers of xylene and cresol, then report total emissions of xylenes under CAS# 1330207 or the CAS# for cesols/cresylic acid**.**

Glycol Ethers

1. Report emissions for individual glycol ethers with their associated CAS#'s. Use the Toxic release Inventory (TRI) guidance on glycol ethers to identify compounds that are actually glycol ethers**.** This guidance is available at the following URL: http://www.epa.gov/tri/guide_docs/2000/glycol2000.pdf. **This document also contains a table listing industrial products containing glycol ethers used by a variety of industries.**

2. It is acceptable where impossible to report individual glycol ethers to report total emissions of glycol ethers as a group under "glycol ethers".

Any facility that emits any HAP in an amount equal to or greater than 0.1 ton at the process level must report the total emissions for each HAP on the enclosed Certification of Emissions Statement. Title V and synthetic minor sources must also report the information at the process level in I- steps - process emissions level.

Title V and Synthetic Minor Sources

Efforts are being made to have the components identified in Title V application's "Section 3: Site Inventory List" and the stack, point, and process unit level information used in emission inventories match wherever practicable. A field is provided in the computer software to enter the Title V component ID.

General Comments

1. We suggest all sources create backup of both the 2008 inventory for their facilities as well as of their 2008 submittal before posting it to the Air Quality Program Website.

2. Review submittal for completeness before posting. **Incomplete submittals will be returned. A complete submittal means that all screens have been reviewed and updated. This includes the group, stack, process and process emission screens. If the date at the bottom of each screen has not been incremented the presumption is that the data on it has not been reviewed and the submittal is therefore incomplete. Complete submittals must also include backup calculations in Excel spreadsheets not pdf's and mdb files from the EPA Tanks Program. Paper print-outs from tanks are no longer acceptable.**

3. Major sources, synthetic minor sources and 25ton minor sources must return a zip file containing their 2008 data. Neither reports printed from the satellite program nor inventories submitted on forms from previous years are acceptable. All submittals should be made using the **5.0.364 VERSION Windows Version of I-steps Satellite. Previous versions are not compatible with the agency database and will be returned.**

4. Summary reports from the Windows Satellite Version of I-steps could prove useful to some facilities. They are of reasonable size**.**

5. Processes and equipment no longer in service can now be deleted from the inventory by each source. Please use the comments section of the program, Facility General Level, notes, to explain and to list any emission sources deleted because the emission sources in the inventory should match the permit and any amendments to it. This is checked every year.

6. **Please group all comments relating to your 2008 Emission Inventory at the Facility General Level.**

7. All tank information is to be calculated using the EPA Tanks Program Version 4.09d. It can be downloaded from the Internet. Website address http://www.epa.gov/ttn/chief/software/tanks/index.html. **Both VOC and HAP emissions from tanks are entered into i-Steps.**
Tank emissions are to be entered into I-Steps Operating Schedule - Group Level, throughput-process level, and emission process emissions level using Method Code 3.

Please submit the electronic Access mdb files from Tanks 4.09d with your 2008 zip file emission inventory. This must be an electronic file. **It is part of a complete submittal**.

8. **Calculation of Emissions from the emptying of internal/external floating roof tanks below roof supports. Please note these emissions cannot be calculated using the EPA Tanks Program.** They must be calculated using the equations provided below either in a spreadsheet or by hand and then entered into I-steps by adding these emissions to the breathing/working emissions calculated by the EPA Tanks Program**.**

The total loss from floating roof tanks during a roof landing is the sum of the standing idle losses and the filling losses.

$$L_{TL} = L_{SL} + L_{FL}$$

L_{TL}=total losses during roof landing, pounds per landing episode.
L_{SL}= standing idle losses during a roof landing, pounds per landing episode.
L_{FL}= filling losses during roof landing, pounds per landing episode.

Internal floating roof tank with liquid heel:

Standing idle loss equation:

$$L_{SL\,max} = \left(\frac{\pi}{4}\right) D^2\ h_{le}\ W_l\ (7.48)$$

$$L_{SL\,max} = 5.9\ D^2\ h_{le}\ W_l$$

:

L_{SLmax} = limit on standing idle loss, lb per landing episode
7.48 = volume conversion factor, gal/ft^3
D = diameter of the tank, feet
h_{le} = effective height of the stock liquid, feet
W_l = density of the liquid inside the tank, lb/gal

Filling Loss Equation:

$$L_{FL} = \left(\frac{P\,V_V}{R\,T}\right) M_V\ S \qquad ($$

L_{FL} = filling loss during roof landing, lb
P = true vapor pressure of the liquid within the tank, psia
V_V = volume of the vapor space, ft^3
R = ideal gas constant, 10.731 psia-ft^3/(lb-mole-°R)
T = average temperature of the vapor and liquid below the floating roof, °R
M_V = stock vapor molecular weight, lb/lb-mole
S = filling saturation factor, dimension less (0.60 for a full liquid heel; 0.50 for a partial liquid heel).

External Floating Roof Tanks

Standing Idle Loss Equation

$$L_{SL} = 0.57\ n_d\ D\ P^*\ M_V$$

$$L_{SL} \le 5.9\ D^2\ h_{le}\ W_l$$

Filling Loss Equation

$$L_{FL} = \left(\frac{P\,V_V}{R\,T}\right) M_V\ \left(C_{sf}\ S\right)$$

Filling Saturation Factor (S)	S = 0.60 for a full liquid heel S = 0.50 for a partial liquid heel	**For both types of tanks**

For more detail, please refer to Chapter 7 of AP-42.

Directions for Completing 2008 Calendar Year Air Emission Inventory Report

Where fields have been left blank AQP requests you fill in the information based on the 2008 operations of your facility and the directions that follow.

Please read these instructions in their entirety before updating your emission inventory.

Please post the completed inventory with supporting materials (Excel spreadsheets active only not a pdf) as zip files on the website. Refer to the instructions on how to do this that accompanied the cover letter e-mail sent on or around 12/15 and send U.S mail the completed Certification of Emissions Statement to: Emission Inventory Response, Allegheny County Health Department Air Quality Program 301 Thirty-ninth Street Pittsburgh, Pa 15201-1891 by 4:30 p.m. on March 14, 2008.

All submittals are to be made to the website. E-mail submittals will no longer be accepted except where a source is unable for technical reasons to upload to the ACHD Website.

No extensions for the submittal of the 2008 Allegheny County Emission Inventory will be granted this year.

The Emission Inventory Instructions are divided into the following sections:

1.0 Facility Information Section: This is general information about the Facility.

1.S Stack Information Section: This section asks for stack information. A stack is a vent, chimney, duct, etc., serving a process. The number of stack information forms you need to complete depends on the number of stacks at your facility.

2.0 General Activity / Point Information Section: A facility will have at least one point. The number of general activity/ point information forms you need to complete depends on the number of points at your facility.

3.0 Process Information Section: This section must be completed for each process within a point of an activity. A process is usually defined by a Source Classification Code.

4.0 Emissions Information Section: In this section, emissions of all criteria pollutants (CO, NOx, SOx, TSP, PM10 & VOC) and Hazardous Air Pollutants (HAP) for each process are to be reported as applicable.

5.0 Certification of Emissions Statement: This page summarizes the total emissions for each pollutant at your facility. Please list all pollutants. Please include total emissions for CO, NOX, SO2, TSP, PM10, and VOCS and all HAPS. **Totals of all pollutants are to be listed on this form whether subject to emission fees or not. Please refer to the section on reporting emissions for the National Toxics Inventory. Do not use the certification of emission statement that is part of the satellite program. It is not the official legal form required in Allegheny County. The Allegheny County Form is posted on the website**

6.0 Calculation of Emissions for Travel over Paved and Unpaved Roads by vehicles not licensed to Travel on Public Highways.

Tables and Appendices:

Table A	Control Device Codes
Table B	POM Compounds
Table C	Emission Release Point Types (Stack Types)
Appendix A	Material Balance Explanation

Appendix B Description of Terms

Additional forms:
Accidental Releases Worksheet: A supplemental form is included for accidental releases. However, accidental releases should be included in I-steps as temporary points and clearly identified as accidental releases from a specific process or piece of equipment.

Tanks

Tank data must be reported electronically. This is done by submitting both the tank mdb and the client mdb files for your facility with other supporting documentation for your current emission inventory. It is a good idea to rename your facility's client and tank mdbs with your facility's name before forwarding it.

The tank database contains all the chemical, meteorological and other information provided with the program. The client database contains the information you enter for each tank you are calculating emissions for. The current location of these databases is displayed on the main TANKS screen. **Be sure when you send your tank information to send us both the client and the tank mdb files for your facility.**

The **Change Database Locations screen** enables you to create new, blank databases for multiple clients. For example, you may want to have separate databases for your two clients, Company A and Company B. You can change between client databases by using the Change Database Locations menu item.

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Section 1.0
Facility Information Section

This section is for general plant level information. Instructions under this section are for form 1.0 Facility Information. Please be sure to increment the year of inventory on the Facility General Screen.

Section 1.1 Facility Name The current facility name at the time the report is completed.

Section 1.2 Plant ID Number: A four digit number assigned by the Air Quality Program to for your facility. The number is useful in communications with AQP. If one is not listed because this is the first year you have completed an emission inventory, please make one up for the 2008 inventory a valid one will be assigned when the inventory is evaluated.

1.2a Federal Tax ID Number: Federal Tax Identification Number for this facility.

Emissions Contact: The name of the person responsible for completing this report. This person will be contacted should questions arise requiring more information or clarification. This will also be the person to which future correspondence will be addressed. This person is usually an employee (e.g., plant manager) at the facility, but may also be an employee at corporate headquarters or other company locations.

Section 1.4 Emissions Contact Title: Title of the person responsible for completing this report.

Section 1.5 Contact Phone Number: Phone number of the contact.

Section 1 .6 Contact Fax Number: Fax number of the contact.

Section 1.7 Facility Location - Street & Number: This is the physical location of the facility. This entry should include the street address approved by the U. S. Postal Service (a number and a street name). This entry should not be an intersection e.g. Castor Ave. and Lycoming Ave or a P. O. Box. The mailing address may be different from the facility location.

1.8 Facility Location City: -Include the name of the municipality.

1.9 Facility Location - State & ZIP: Include the State and five digit ZIP code.

1.10 Mailing Address - Street & Num.: This is the mailing address of the facility. This entry should include the street address approved by the U. S. Postal Service (a number and a street name). This entry should not be an intersection e.g. Castor Ave. and Lycoming Ave. The mailing address may be different from the facility address.

1.11 Mailing address - City: Include the name of the municipality.

1.12 Mailing Address - State & ZIP: Include the State and five-digit ZIP code.

1.13 Corporate Name: This should list the corporate name (if any).

1.14 Corporate Address - Street & Number.: This is the corporate mailing address of the facility. This entry should include the street address approved by the U. S. Postal Service (a number and a street name). This entry should not be an intersection e.g. Castor Ave. and Lycoming Ave.

1.15 Corporate Address - City: Include the name of the municipality.

1.16 Corporate Address - State & ZIP: Include the State and five-digit Zip code.

1.17 Universal Transverse Mercator (North) Vertical: Available from U.S.G.S. Maps.

1.18 Universal Transverse Mercator (East) Horizontal: Available from U.S.G.S. Maps.

1.19 Facility Latitude: Enter the latitude coordinates for your facility in degrees minutes and seconds.

1.20 Primary NAICS: This is the analog to the more common SIC Code described below. It was developed in response to the NAFTA Treaty. The program requires this field to be completed. It is available through the help function in the program.

1.21 Primary SIC Number: Standard Industrial Classification (SIC) number is the statistical classification standard underlying all establishment-based Federal economic statistics classified by industry. The SIC list was revised by the Federal Government in 1987. You are required to enter the primary 4-digit SIC Code for your facility, not the parent company. The parent company's SIC may be different. If you do not know the appropriate SIC code(s) check with the Air Quality Program or use the help function on the program

1.22 Secondary SIC Number: Enter the secondary SIC code (if appropriate) for other distinct and separate economic activities at your facility. If you do not know the appropriate SIC code(s), check with the AIR Quality Program or use help in the program.

1.23 Tertiary SIC Number: Enter the tertiary SIC code (if appropriate) for other distinct and separate economic activities at your facility. If you do not know the appropriate SIC code check with the Air Quality Program or use the program's help function.

1.24 Number of Employees at this Facility: Approximate number of employees employed at the facility during the reporting year.

1.25 Size of Plant in Acres: This is the size of the facility in acres. A facility is defined as all buildings, equipment, structures, and other stationary items which are located on a site or on contiguous or adjacent sites and are owned or operated by the same person.

1.26 Is This Facility Government Owned: Please answer Yes or No.

Section l.S
Stack Information Section

This is the section where stack information will be entered. In previous years a stack was associated with a specific emission point (group). For the **calendar** year 2008 the stack will be associated with **specific processes** in 3.0 Process

Information Section. This data is to be reviewed and updated every year. A description of how to set up Stacks is **included in APPENDIX** B.

1. S.1 Facility Name: Same as 1.1.

l .S.2 Plant ID Number: Same as 1.2.

1. S.3 Stack Number: The Stack Number is a four-digit number used to uniquely identify a stack at a particular facility.

1. S.4 Stack Description: Briefly describe the stack.

1. S.5 Facility Stack Identifier: Identifies the facility's name for the particular stack; this may differ from l.S.1 and l.S.2.

1. S.6 Release Point Type: This is the type of release point associated with a stack ID. This can be a vertical stack, a horizontal vent, or a fugitive release point. **Please check this field and make sure to use the appropriate code from Table C of this document.** i-Steps does not provide a lookup table for this field. **Please do not report building vents as fugitive emission points – see below for stack height and diameter for these vents.**

1. S.7 Stack Height (feet): The stack height is the distance above ground to the discharge point in feet. If a stack is on the roof of a building, the stack height equals the sum of the height of the building plus the length of the stack. For a building vent, whether horizontal or vertical, the stack height is the height above ground of the vent exit.

1. S.8 Stack Diameter (feet): Enter the inside diameter of the stack at the discharge point in feet and in decimal fractions of feet. If it is not a round stack please provide approximate dimensions and include sketch if necessary for odd shaped openings. The effective diameter of a rectangular stack is calculated as follows

$$D_E = \frac{2 * L * W}{(L+W)}$$

Where

D_E	=	Effective Diameter, feet
L	=	Length of opening, feet
W	=	Width of opening, feet

l.S.9 Vent Height (feet): When there is no identifiable stack, provide the height in feet above ground at which the emissions enter the atmosphere under Vent Height. If you make an entry on this line, 1.S.7 and l S.8 are left blank.

PLEASE NOTE: Beginning with the 2004 Inventory the EPA expects all sources to supply the precise coordinates of all stacks to which any single emission point or single process discharges within a facility with the potential to emit:

- **100 tons of any criteria pollutant**
- **50 tons of VOCs**
- **10 tons of a single HAP**
- **25 tons of a combination of HAPS**

The individual coordinates of each stack that falls within these categories must be reported. They cannot be the same as the facility coordinates. Any source that did not update their facility's stack coordinates last year must do it this year.

1. S.10 Stack Universal Transverse Mercator (UTM) North or Vertical

1. S.11 Stack Universal Transverse Mercator (UTM) East or Horizontal

1. S.12 Stack Latitude Coordinate: Enter the latitude coordinate for the stack in degrees, minutes and seconds.

1. S.13 Stack Longitude Coordinate: Enter the longitude coordinate for the stack in degrees, minutes and seconds.

1. S.14 Stack Gas Flow Rate (ACFM): Enter the exhaust gas flow rate in actual cubic feet per minute (ACFM). This is the flow rate at actual exhaust gas temperature and normal atmospheric pressure. **Design values may** be used in place of actual test data. Data expressed in Standard Cubic Feet per minute must be adjusted to ACFM using the following formula: ACFM = SCFM * (Ta + 460)/ (Ts + 460) where Ta = actual exhaust gas temperature (degrees F) and Ts = temperature at standard conditions (normally 70 degrees F).

1. S.15 Stack Gas Exit Temperature (deg F): The temperature of stack gases at the discharge point in F.

1. S.16 Stack Gas Exit Velocity: Enter the velocity of the stack gases at the discharge point in feet per second.

Section 2.0
General Activity/Point (Group) Section

This section is where point (group) level information will be entered. Every facility will have at least one point. A point describes an activity or several processes that can be grouped together. For purposes of this submission a group and a point are identical.

Points are listed by a sequential Point ID number. Each point will need its own individual form. Examples of points include: boiler, surface coating operations, storage tanks, baking operations, etc. A description of how to set up points is included in **APPENDIX B**.

2.1 Facility Name: Same as 1.1.

2.2 Plant ID Number: Same as 1.2.

2.3 Point ID Number: Point ID Number is a three digit sequential number given to a general activity. The purpose of the point ID number is to organize within a facility the major processes and emission sources. **Please use the same point number assignment as on the satellite files.**

New points may be added starting with the next higher number; however, the point cannot be assigned a point number which is already in use or has been assigned in the past to an outdated or abandoned piece of equipment.

There are certain instances in which a building can be considered a point. An example is an R&D facility where there are numerous small and varied activities with numerous lab hoods, stacks, vents and exhaust systems. Because of the numerous small sources of emissions it is not important to identify and provide emissions information on each individual source. They can be summarized as emissions from the building. It is best to consult with AQP before using this approach.

2.4 Operating Schedule - Hours per Day: Provide the daily operating schedule in number of hours. **This is the actual operating schedule for this point for the 2008 reporting year. This is not the maximum operating schedule in an associated permit, unless the point actually operated at the maximum permitted schedule.**

2.5 Operating Schedule - Days per Week: Provide the weekly operating schedule in number of days. This is the actual operating schedule for this point for the 2008 reporting year. This is not the maximum operating schedule in an associated permit, unless the point actually operated at the maximum permitted schedule.

2.6 Operating Schedule - Weeks per Year: Provide the annual operating schedule in number of weeks. This is the actual operating schedule for this point for the 2008 reporting year. This is not the maximum operating schedule in an associated permit, unless the point actually operated at the maximum permitted schedule.

2.7 Operating Schedule - Hours per Year: This is the actual operating Schedule for a given point for the 2008 reporting year. This is not the maximum operating schedule in an associated permit, unless the point actually operated at the maximum permitted schedule.

2.8 Point Throughput December to February: Enter an estimate of the percentage of throughput for each quarter. The sum of the four percentages for the four quarters must equal 100%. For boilers/process heaters or other combustion equipment the percentage throughput for each quarter would be based on the total fuel burned for the entire reporting year. The percentage throughput for each quarter for a non-combustion activity would reflect the production, consumption or other throughput units of measure for each quarter. The percentage throughput is for the 2008 calendar year. The first quarter includes December 2008, plus January and February 2008; the second quarter is March, April and May; third Quarter is June, July and August and the fourth quarter is September, October and November.

Note: The three first quarter months are not consecutive months, (i.e. NOT: December (02), January (03), February (03), but actually: December (02, January 02 and February 02.)

2.9 Point Throughput March to May: Enter an estimate of the percentage of throughput for the quarter March 1 to May 31, 2008. Refer to 2.9 for additional detail.

2.10 Point Throughput June to August: Enter an estimate of the percentage of throughput for the quarter June 1 to August 31, 2008 Refer to 2.9 for additional detail.

2.11 Point Throughput September to November: Enter an estimate of the percentage of throughput for the quarter September 1 to November 30, 2008. Refer to 2.9 for additional detail.

Note: sections 2.7, 2.8, 2.9 and 2.10 must sum to 100%

2.12 Days of Ozone Season Operation: List the actual number of days that this point was in operation for the period June 1, 2008 through August 31 2008 inclusive. Ozone season has a maximum of 92 days. Entering the maximum is recommended since the program then calculates a lower value for daily ozone emissions

2.12Days of CO Season Operation: List the number of days that this point was actually in operation for the period January 1, 2008 through February 28, 2008 inclusive AND December 1, 2008 through December 31, 2008 inclusive. Carbon monoxide season has a maximum of 90 days. Again it is recommended to enter the maximum in this field.

Section 3.0

Process Information Section

This section is for reporting process or combustion information. Every process should be defined or described by a Source Classification Code (SCC). For more information on Sacs refer to 3.8. More than one process may be associated with a point and a stack.

3.1 Facility Name: Same as 1.1.

3.2 Plant ID Number: Same as 1.2.

3.3 Point ID Number: The Point ID Number that includes the process described below.

3.4 Process Number: Equipment within a point should have its own process number. The process number is a two digit sequential number starting with (01). Each point must have at least one Process Number (**Please use the same process number assignment as used for the 2005 inventory.)**

New processes may be added (starting with the next higher number), however the new process can not be assigned a process number which is already in use or has been assigned in the past to an outdated or abandoned piece of equipment.

3.5 Process description: Provide a complete description of the process or equipment. For example “A tangential fired boiler burning # 6 fuel oil", "fixed roof tank # 151 storing toluene".

3.6 Source Classification Code (SCC): The SCC Codes (SCC's) are building blocks upon which the national depository of point source emissions data is structured. Each SCC represents a unique process or function within a source category logically associated with a group of air pollution emissions.

Any operation causing air pollution can be represented by one or more of these SCC's. SCC is a critical data element since, without an appropriate SCC, a process cannot be properly identified for data entry or data retrieval purposes, nor can emissions be properly calculated when using the associated emission factors.

It is advisable for your facility to download a copy of FIRE (Factor Information Retrieval System) SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING FOR CRITERIA AIR POLLUTANTS, VERSION 6.25.
http://www.epa.gov/ttn/chief/software/fire/index...html

3.7 SCC Units: Units are usually defined by the SCC and are included in FIRE or Emission Inventory Structure report next to the appropriate data elements, such as "Fuel Heat Content", "Annual Fuel Usage or Process Throughput" or "Maximum Hourly Design Rate". If emissions factors are used to estimate emissions, the units for the above data elements must be **consistent with** the emissions factor units. Examples of the units are "Tons Burned", "Tons Produced", "Gallons Burned", etc.

3.8 Stack Number: This is the Stack Number (1.S.3) assigned to the stack that the process exhausts into the atmosphere. As previously described in (1.S.9) when there is no identifiable stack use Vent Height to identify the exit point of emissions.

3.9 Source Type: Enter the appropriate letter which best describes the process:

B-Boiler
C-Combustion
I-incinerator
P-Process

3.10 Ash Content (combustion ~ boiler sources only): Provide the percent ash for each fuel burned. It is not necessary to provide this information for Natural Gas and Propane because the sulfur and ash content of these fuels are negligible. Write "N/A" for processes other than fuel combustion and boilers. This information can be obtained from your fuel supplier.

3.11 Sulfur Content (combustion and boiler sources only): Provide the percent sulfur for each fuel burned. It is not necessary to provide this information for Natural Gas and Propane because the sulfur and ash content of these fuels are negligible. Write "N/A" for processes other than fuel combustion and boilers. This information can be obtained from your fuel supplier.

3.12 Data Confidentiality Status: Enter confidential / not confidential. Only throughputs and operating schedules can be treated as confidential. Confidential throughputs and operating schedules are not provided in basic reports requested by the public and agencies other than EPA. Confidential throughputs and operating schedules are provided to EPA and are flagged as confidential in the EPA database. Emissions are not confidential information.

3.13 Annual Process Rate (in SCC Units): The actual process rate expressed in units consistent with the SCC; for the entire year 2008.

3.14 Maximum Operation Rate (in SCC Units / Hour): This is the maximum hourly process **throughput** fuel usage or capacity. This is the maximum design rate for the equipment, not a permit limit or a maximum rate for the year. The maximum process rate should be consistent with the SCC units.

3.15Ozone Season Process Rate (in SCC Units / Day): The peak ozone season is June through August of each year. The daily rate during this season is calculated by using the following formula:

$$\text{Peak ozone season daily rate} = \frac{\text{Annual Process Rate x Ozone Season Throughput percentage (June through August) /100}}{\text{Number of Days Operating during the Ozone Season}}$$

The Seasonal process rate should be in SCC units per day.

3.16 CO Season Process Rate (in SCC Units / Day):
The peak carbon monoxide season is December, January and February of each year. The daily rate during this season is calculated by using the following formula:

$$\text{Peak CO season daily rate} = \frac{\text{Annual Process rate x CO Season throughput Percentage (January, February\&December)/100}}{\text{Number of Days Operating during the CO Season}}$$

The Seasonal process rate should be in SCC units per day.

Section 4.0

Emissions Information Section

This section is where the pollutant information will be entered. A separate entry for each of the criteria pollutants and each HAP is necessary whether the HAP is a VOC or not. Title V sources must provide information on emissions of HAPs at the process emission level. The cut-off for reporting of HAP emissions is at the facility wide level.

1.) For any single HAP an amount equal to 0.1 ton or greater must be reported at the individual process level.

4.1 Facility Name: Same as 1.1.

4.2 Plant ID Number: Same as 1.2.

4.3 Point ID Number: Same as 2.3.

4.4 Process Number: Same as 3.4.

4.5 Pollutant Name: The criteria pollutants are described below:

VOC Total Volatile Organic Compound: An organic compound that participates in atmospheric photochemical reactions; that is, an organic compound other than those which the Administrator of the EPA designates as having negligible photochemical reactivity.

NOx Nitrogen Oxides: Nitrogen oxides are usually produced by combustion. Atmospheric nitrogen and nitrogen compounds in fuels are oxidized. Some non- combustion processes may also produce nitrogen oxides.

CO Carbon Monoxide: Carbon monoxide is usually the result of incomplete combustion for fuel burning equipment, such as boilers and process heaters, but can also be the result of some non-combustion processes.

SOx Sulfur oxides: These sulfur compounds are usually the result of burning fuels containing sulfur or sulfur compounds. They may also be associated with non-combustion processes.

TSP Total Suspended Particulate: Any finely divided solid or liquid, organic or inorganic material (excluding water) that is not emitted in the vapor phase or does not readily vaporize upon entering the atmosphere.

PM10 Particulate Matter (< 10 microns in diameter, PM10): Report the total (collective) amount of particulate matter less than ten microns in diameter, other than water, emitted for each process at each point.

PM2.5 Particulate Matter (< 2.5 microns in diameter, PM2.5) Report the total (collective) amount of particulate matter less than 2.5 microns in diameter, other than water, emitted for each process at each point.

PMCOND Particulate Matter (<10 microns in diameter PM10) The fraction of the emission stream that exits the process in the gas phase but condenses sufficiently some point downstream to become particulate that can be collected by a pollution control device. Usually this pollutant is a product of combustion. AP-42 provides factors for both fractions of the particulate stream, the condensable and the filterable.

4.6 Emission Estimation Method Code: see the table below for the appropriate code used to estimate the pollutants listed:

Code #	Method Used To Estimate Emissions
1.	Source test results (do not use, convert emission rate to emission factor and add to state emission factor table using method code 9).
2	Material Balance (See APPENDIX A). Requires hard copy of all calculations spreadsheet with equations in cells in Exce
3	Manually calculated/EPA AP-42 emission factors (use only for tank emissions)
5	Manually calculated/Local emission factors (use method code 9 instead)
6	New construction, not yet in operation
7	Facility closed and/or operation ceased
8.	i-STEPS Calculated / AP-42 EF
9.	i-STEPS Calculated / Local EF

Complete documentation must accompany each emission estimate. **If stack test results are used an emission factor must be calculated from the stack test results in pounds per unit of throughput as entered at the Process Information level. The emission factor must be entered into the state emission factor table using method code 9 with the date of the stack test.** If a stack test report giving the emission factors to be used in the inventory along with sample calculations has been submitted to the Department, it is sufficient to reference the date of the test, the unit(s) tested, and the date of submittal of the test report. If additional calculations are required to modify, convert, or otherwise manipulate the stack test results, these should be provided in spreadsheet format. **If a test report has not previously been provided to AQP, such as for a diagnostic test, the following should be attached to the emission inventory:**

1) A full test report (in .pdf format)
2) Summary calculations in live spreadsheet format
3) Documentation showing the representativeness of test data to actual operation during the inventory year

Acceptance of stack test data is at the discretion of AQP.

A stack test or measurement must be performed according to a method acceptable to EPA. If Method 2 is used, you must show the calculations. See Example #1 in APPENDIX A for illustration. If Method 3 or Method 5 is selected, then supporting documentation and calculations must be provided. Method Code 3 should only be used when entering emissions for storage tanks calculated using the TANKS program, wastewater treatment emissions calculated using the SIMS model, or wind erosion emissions calculated using the methodology presented in AP-42 Section 13.2.5. If Method Code 5 is selected, you must document the calculation method and identify the source of the emission factor.

To the extent practicable use only method codes to 8, 9, and 2.

All documentation must be submitted electronically. Those requiring signatures must be submitted in hardcopy. These include the Certification of Emissions Statement and any signatures required by the software provider.

4.8 Emission Factor (Pounds/SCC Unit): An average in pounds/unit at which the pollutant is released to the atmosphere as a result of some activity. This is to be filled in only if estimation Method 3 or 5 is selected. Otherwise print "NA". Most factors may be found in AP-42 Compilation of Air Pollution Emission Factors, FIRE (Factor Information Retrieval System) Version 6.25 on the EPA website. FIRE (Factor Information Retrieval System)

4.9 SCC Units: See 3.7

4.10 Overall control efficiency: The overall control efficiency is the combined removal efficiency (in weight percent) for all control equipment applicable to the pollutant listed. It must incorporate the capture efficiency for VOC and NOX

4.11 Estimated emissions No Control Tons/Year: An annual estimate of actual emissions (including fugitives for each pollutant listed.

4.12 Estimated emissions No Control (Pounds / Hour): An hourly estimate of actual emissions (including fugitives) for each pollutant listed.

4.13 Estimated emissions No Rule (Tons /Year): An annual estimate of actual emissions (including fugitives) for each pollutant listed without rule effectiveness in the calculation.

4.14 Estimated emissions No Rule (Pounds / Hour): An hourly estimate of actual emissions (including fugitives) for each pollutant listed without rule effectiveness in the calculation.

4.15 Maximum potential emissions (Tons / Year): An annual estimate of the emissions for each pollutant listed if the process were to operate twenty-four hours a day, seven days a week, fifty-two weeks a year with control devices operating if applicable.

4.16 Maximum potential emissions (Pounds / Hour): An hourly estimate of the emissions at maximum throughput for each pollutant listed.

4.17 Annual Banked Emissions (Tons): The amount of emissions banked for 2008 in tons.

4.18 Ozone season daily emissions (Pounds / Hour): The peak ozone season is June through August of each year. The daily emissions during this season are calculated by using the following formula and are based upon the average daily emissions during the season:

$$\text{Peak Ozone Season daily emissions} = \frac{\text{Annual Estimated Emissions x Ozone Season throughput (June through August)/100}}{\text{Number of days operating during the ozone season}} \times 2000\text{lb/ton}$$

4.19 CO season daily emissions (Pounds/Hour): The peak carbon monoxide season is December, January and February of each year. The daily emissions during this season are calculated by using the following formula and are based upon the average emissions during the season:

Peak CO Season daily emissions = Annual Estimated Emissions x CO Season Throughput (January, February & December)/100 x 2000lb/ton

Number of days operating during the CO Season

Section 5.0
Control Equipment

This section is where Version 5.0 i-Steps has placed information necessary to calculate emissions where control devices are operative.
There are three screens where this data is presented. They are described below. Please note that control equipment data from previous emission inventory submittals is located on these new screens. They can be edited if necessary and new equipment can be added. However, if the equipment used to control the emissions from points at you facility has not changed then these screens only need to be reviewed for accuracy.

5.1 Facility Name: Same as 1.1

5.2 Abatement Device Id Number: The Abatement Equipment level manages each abatement device used at a facility. Each piece of abatement equipment is assigned a unique device id number.

5.3 Abatement Equipment Code: This field contains the same control device codes as are listed in Table A. These codes are selectable from Help.

5.4 Equipment Description: A brief description of the control equipment being defined.

Abatement Efficiency

This screen is where the control efficiency with which a given type of device controls a given pollutant is entered. Both the pollutant and the control efficiency can be edited.

5.5 Pollutant code: Same as 4.5

5.6 Control Efficiency: Control device efficiency is the percent effectiveness of the control devices. It represents the actual control efficiency achieved by the control device. The method of determining the control efficiency must be indicated.

(1) Control device efficiency may be determined for specific equipment by stack tests that measure concentrations before and after the control device. This is the most acceptable method.

(2) Control efficiency limits imposed by a permit may also be used if actual efficiency values are not available.

(3) Another method of obtaining control device efficiency is to employ the manufacturer's design specifications or guaranteed performance specifications subject to field verification. However, the manufacturer's design control efficiency is the efficiency obtainable under optimum conditions. This may not represent your actual conditions. This is the least acceptable method and should only be used if it is the only option available.

Control Scenario

This screen is where the capture efficiency for a given device for a given pollutant is recorded. Control device id number and capture efficiency can be edited.

Capture Efficiency: The percentage of the total emitted pollutant from the process that is sent to the primary control device. This is never 100%.

5.8 Instructions **I-steps Control Equipment Scenario**

Instructions for adding new control equipment to in the I-steps satellite.

1. From the map select the abatement control device
2. Add the three digit control device code and save.
3. From the map select abatement efficiency.
4. Enter abatement efficiency and a pollutant code and save.
5. Go to the process emissions screen for the segment and select the pollutant of concern.
6. Form map select control scenario and enter capture efficiency and the control device id number and save.
7. Check the overall control efficiency of the pollutant of concern. It should have been calculated.

6.0 Vehicle Fugitive Emissions

6.1 Unpaved Roads

To estimate the quantity of size specific emissions from travel over unpaved roads per vehicle mile traveled use the following expression:

$$E: = [k(s/12)^a \ (W/3)^b]$$

Where E= size specific emission factor (lb/VMT)

S=surface material silt content (%)

W= mean vehicle weight (tons)

M= surface material moisture content (%)

K,a,b,and c are empirical constants whose values are listed below:

VALUES OF CONSTANTS FOR EQUATION

Constant	PM-2.5	PM-10	PM-30
K (LB/VMT)	0.15	1.5	4.9
A	0..9	.9	0.7
B	0.45	.45	0..45

PM-30 IS ASSUMED TO BE EQUIVALENT TO TSP

RANGE OF SOURCE CONDITIONS USED TO DEVELOP FUGITIVE EMISSION EQUATION

Surface Silt content (%)	Mean Vehicle Weight (ton)	Mean Vehicle Speed(mph)	Mean # of Wheels	Surface Moisture Content (%)
1.8-25.2	2-290	5-43	4 – 17	.03-13

Emission factors should be calculated for each size class of particulates and then added to the local emission factor table using Method Code 9. Of course, the values for each variable selected for your facility should be listed in the comments section of the Facility General Section.

6.2 Paved Roads

To estimate the quantity of size specific emissions from travel over paved roads per vehicle mile traveled use the following expression:

$$E = k\,(sL/2)^{0.65}(W/3)^{1.5} - C$$

E = particulate emission factor (having units matching the units of k)

K= base emission factor for particle size range and units of interest

sL= road surface silt loading (grams per square meter)

W= average weight (tons) of the vehicles traveling the road

C= emission factor for 1980's vehicle fleet exhaust brakes and tire wear.

Size Range	Multiplier k g/VMT	Multiplier k lb/VMT
PM2.5	1.1	0..0024
PM-10	7.3	0..016
PM-15	9.0	0.020
Pm-30	38	0.082

VALUES FOR C	LB/VMT
PM2.5	.00036
PM10	.00047
PM15	.00047
PM30	.00047

Values for other variables

Silt loading = 0.03 –400 g/m^2

0.04-570 $grains/ft^2$

Mean Vehicle Weight = 2.0 – 42 tons

Mean Vehicle speed = 10-55 miles per hour

The equation should be used to calculate an emission factor for each size class of particulate. This factor should be entered into the I-Steps program using Method Code 9 and used to calculate emissions for each size of particulate where TSP is equivalent to PM-30.

Additional Forms

Accidental Releases Worksheet

Accidental Releases: These are unplanned /unintentional releases of air emissions. It is important that the following information be provided: Date of release, chemical names of compounds emitted to the air, amount of emissions in tons. If the emissions are accounted for in a point and process, enter yes in the appropriate field and list the process in the space provided. Also describe the location of the release and the process equipment with which it was associated. Use as many lines as needed.

TABLE A

Control Device Codes

Control Device Descriptions	Code #	Control Device Descriptions	Code #
ACTIVATED CARBON ADSORPTION	048	CONVERSION TO FLOATING ROOF	09f
ACTIVATED CLAY ADSORPTION	084	CONVERSION TO PRESSURIZED TANK	092
AIR INJECTION	031	CONVERSION TO VARIABLE VAPOR SPACE TANK	090
ALKALINE FLY ASH SCRUBBING	068	DIRECT FLAME AFTERBURNER	021
ALKALIZED ALUMINA	040	DIRECT FLAME AFTERBURNER WITH HEAT EXCHANGER	022
AMMONIA INJECTION	032	DRY LIMESTONE INJECTION	041
AMMONIA SCRUBBING	038	DUAL ALKALI SCRUBBING	036
ANNULAR RING FILTER	064	DUST SUPPRESSION BY CHEM STAB OR WETTING AGENTS	062
BAROMETRIC CONDENSER	074	DUST SUPPRESSION BY WATER SPRAYS	061
BOTTOM FILLING	089	DYNAMIC SEPARATOR (DRY)	056
CATALYTIC AFTERBURNER	019	DYNAMIC SEPARATOR (WET)	057
CATALYTIC AFTERBURNER WITH HEAT EXCHANGER	020	ELECTROSTATIC PRECIPITATOR LOW EFFICIENCY	012
CATALYTIC OXIDATION - FLUE GAS DESULFURIZATION	039	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY	010
CATALYTIC REDUCTION	065	ELECTROSTATIC PRECIPITATOR MEDIUM EFFICIENCY	011
CENTRIFUGAL COLLECTOR HIGH EFFICIENCY	007	FABRIC FILTER HIGH TEMPERATURE	016
CENTRIFUGAL COLLECTOR LOW EFFICIENCY	009	FABRIC FILTER LOW TEMPERATURE	018
CENTRIFUGAL COLLECTOR MEDIUM EFFICIENCY	008	FABRIC FILTER MEDIUM TEMPERATURE	017
CHEMICAL NEUTRALIZATION	083	FLARING	017
CHEMICAL OXIDATION	080	FLUE GAS RECIRCULATION	023
CHEMICAL REDUCTION	081	FLUID BED DRY SCRUBBER	071
CITRATE PROCESS SCRUBBING	037	GAS SCRUBBER (GENERAL, NOT CLASSIFIED)	013
CONSERVATION VENT	088	GRAVEL BED FILTER	063
CONTROL OF %0, IN COMBUSTION AIR	033	GRAVITY COLLECTOR - HIGH EFFICIENCY	004
GRAVITY COLLECTOR LOW EFFICIENCY	006	SODIUM-ALKALI SCRUBBING	070

Control Device Descriptions	Code #
GRAVITY COLLECTOR	005
MEDIUM EFFICIENCY IMPINGEMENT PLATE SCRUBBER	055
LIQUID FILTRATION SYSTEM	049
LOW - EXCESS - AIR FIRING	029
MAGNESIUM OXIDE SCRUBBING	035
MAT OR PANEL FILTER	058
METAL FABRIC FILTER SCREEN COTTON GINS	059
MISCELLANEOUS CONTROL DEVICES	099
MIST ELIMINATOR - HIGH VELOCITY	014
MIST ELIMINATOR - MEDIUM VELOCITY	015
MODIFIED FURNACE OR BURNER DESIGN	024
MOLECULAR SIEVE	066
MULTIPLE CYCLONE W/FLY ASH REINJECTION	077
MULTIPLE CYCLONE WITHOUT FLY ASH REINJECTION	076
NITROGEN BLANKET	087
NO EQUIPMENT	000
OZONATION	082 085
PACKED-GAS ABSORPTION COLUMN	050 067
PROCESS CHANGE	046 042
PROCESS ENCLOSED	054
PROCESS GLASS RECOVERY	060 003

Control Device Descriptions	Code #
SODIUM CARBONATE SCRUBBING	069
SPRAY TOWER	052
STAGED COMBUSTION	025
STEAM OR WATER INJECTION	028
SULFURIC ACID PLANT - CONTACT PROCESS	043
SULFURIC ACID PLANT DOUBLE CONTACT PROCESS	044
SUBMERGED FILLING	093
SULFUR PLANT	045
TRAY-TYPE GAS ABSORPTION	051
TUBE AND SHELL CONDENSER	072
UNDERGROUND TANK	094
USE OF FUEL WITH LOW NITROGEN	030
VAPOR RECOVERY SYSTEM - INC. CONDENSERS, HOODS, ETC.	047
VENTURI SCRUBBER,	053
WATER CURTAIN	086
WELLMAN-LORD/SODIUM SULFITE	034
WET CYCLONE SEPARATOR	
WET LIME SLURRY SCRUBBING	
WET LIMESTONE INJECTION	
WET SCRUBBER- HIGH EFFICIENCY	001
WET SCRUBBER- LOW EFFICIENCY	

Control Device Descriptions	Code #	Control Device Descriptions	Code #
REDUCED COMBUSTION-	027	WET SCRUBBER-	
AIR PREHEATING		MEDIUM EFFICIENCY	002
REFRIGERATED CONDENSER	073	WHITE PAINT	
SINGLE CYCLONE	095		

Table B
POM Compounds

7-PAH	POM **Compounds (in addition to 7-PAH) for which we have cancer assessments**
Benz(a)anthracene	Carbazole
Benzo(a)pyrene	Dibenz[a,hjacridine
Benzo(b)fluoranthene	Dibenz[aflacridine
Benzo(k)fluoranthene	7H-Dibenzo[cg]carbazole
Chrysene	Dibenzo[a,e]pyrene
Dibenz(a, h)anthracene	Dibenzo[a,flpyrene
Indeno(1,2,3-cd)pyrene	Dibenzo[a,flpyrene
	7,12-Dimethylbenz[a]anthracene
	1,6-Dinitropyrene
	1,8-Dinitropyrene
	3-Methylcholanthrene
	5-Methylchrysene
	5-Nitroacenaphthene
	6-Nitrochrysene
	2-Nitrofluorene
	2-Nitrofluorene
	I -Nitropyrene
	4-Nitropyrene

Table C
Emission Release Point (Stack) Types

Code	**Description**
01	FUGITIVE
02	VERTICAL
03	HORIZONTAL
04	GOOSE NECK
05	VERTICAL WITH RAIN CAP
06	DOWNWARD-FACING VENT

APPENDIX A

MATERIAL BALANCE EXPLANATION

If source test data is not available, the facility can in some cases use the material balance method to estimate emissions. For some sources material balance is the only practical method to estimate VOC emissions accurately. VOC emissions from solvent evaporation sources are commonly determined by use of material balance.

The use of material balance involves the examination of a process to determine if emissions can be estimated solely based on knowledge of specific operating parameters and material composition. In estimating the VOC emissions a material balance is generally used for solvent evaporation sources. The simplest method of material balance is to assume that all the solvent consumed by a source's process(es) will evaporate during the process(es). It is a reasonable assumption in a coating operation that all solvents in the coating evaporate to the atmosphere as part of the process.

For processes that employ a non-destructive control device such as a condenser or absorber, the solvent captured by the control device must be taken into account in the material balance. If the captured solvent is returned to the process, then the total amount of solvent entering the process equals the amount of captured solvent plus the amount of new solvent added to the process. The amount of new solvent added to the process is called "make-up-solvent" because it is added to replace the amount of solvent that evaporates during the process (assuming all solvent loss is due to evaporation). The emissions from this type of process are equal to the amount of make-up solvent added to the process, <u>not</u> the total amount of solvent entering the process as defined above. In addition to the use of condensers and absorbers, waste solvent reclamation by distillation is another example of a technique for which this type of material balance may apply.

In the above discussions, the material balance is simplified because the assumption is that all of the solvent used evaporated and is emitted to the atmosphere. Situations exist where this assumption is not always reasonable. For example, if a destructive control device such as an afterburner, incinerator, or catalytic oxidation unit is employed on a process exhaust, any VOC emissions will be either destroyed or so altered that one could not reasonably assume, without testing the exhaust stream of the device, the characteristics and quantities of any remaining VOC material. The capture efficiency of the exhaust system for the control device is an important consideration. Another example, degreasing emissions will not equal solvent consumption if the waste solvent is sent to a commercial re-processor. In such cases, emissions will be the difference between solvent consumed and solvent in the waste sent to the re-processor.

Material balance cannot be employed in some evaporation processes because the amount of material lost is too small to be determined accurately by conventional procedures. An example of this would be applying material balance to petroleum storage tanks, because breathing loss and working loss are too small relative to

capacity and throughput. In this case the use of the EPA Tanks program is preferred.

Example # 1: **Material Balance Estimation of VOC Emissions and Overall Control Efficiency Process Data:**

450 tons solvent per year (toluene or other non-halogenated solvent) used.

90% Capture efficiency of process solvent emissions. This is the percent of solvent captured by the collection system and sent to the control device.

95% Primary control device removal efficiency

1 Solvent Captured = 450 tons per year x 0.9
= 405 tons captured

2 Solvent Removed = 405 x 0.95
by Control Device= 384.75 tons solvent

3. Fugitives (Solvent not Captured) = 450 - 405 = 45 tons per year

4. Stack Emissions= 405 - 384.75 = 20.25 tons per year

5.Total Estimated = 20.25 + 45 tons
Emissions = 65.25 tons toluene emission *=450[1- (0.9x0.95)} =65.25*

OverallControlEfficiency =(0 .9)x(0.95) =0.855

*6.*Example # 2 Calculation for Overall I Control Efficiency for VOC's

(a) Sources with fugitive emissions: (example, VOC emissions from a partially enclosed printing operation equipped with a catalytic incinerator and an afterburner).

Capture Efficiency (enclosure)	= 90%
Primary Control Device Efficiency (incinerator)	= 95%
Secondary Control Device Efficiency (afterburner)	= 50%

Overall Control Efficiency including capture efficiency, primary control device and secondary control device:

0.9x[1-(1-0.95)x(1-0.5)]

= (0.90) x (l-[(0.05) x (0.50)])

= (0.90)x[1-(0.025)]

= (0.90) x (0.975) = 0.8775 or *87.75%* overall Control Efficiency

Note in this case, 10% of the total emissions were released to the atmosphere without controls. Both controlled and uncontrolled emissions are reported.

Sources with no fugitive emissions: Example, particulate emissions form a sewage sludge incinerator equipped with an electrostatic precipitator (ESP) and wet scrubber.

Primary Control (ESP) = 95%

Secondary Control Device (scrubber)= 50%

Overall Control Efficiency including primary and secondary control devices:

1-[(1-.95) x (1-.50)]

= 1+0.05) x (0.50)] = 0.975 or 97.5% Overall Control Efficiency

APPENDIX B
DESCRIPTION OF TERMS

The following is excerpted from I-steps@ *User's Manual Version 3.1* by Pacific Environmental Services Inc.:

Facility The Facility level is the top level in the data hierarchy. This level contains general information about a facility, such as address, contact name, and phone number, standard industrial classification code, geographical coordinates, and operating status.
Stack: The stack level contains physical characteristics of a stack such as: Diameter and height, or vent height; geographical coordinates' flow rate' temperature' good engineering practice building dimensions. A logical stack is any other point of exit, such as a vent, window or pipe exhaust.
Point: The point level describes process equipment operating schedules and percentage throughputs along with permitted throughput values. The point level is flexible and can provide several different functions. It can be used to:

Group several processes under a similar operating schedule.

Group several process units on the same product line.

Group process units in a designated area of a facility describing the process or segment [for example, Source Classification Codes (SCC), fuel process rates, ash and sulfur contents, and stack stream identifiers].

Process Emissions: The process Emissions level manages information concerning pollutant emissions, (for example emissions calculation method, emission factor, control equipment and efficiencies, annual and seasonal emissions, and SIP characteristics).

Stack Parameter, Point and Process Unit Relationships:

Generally, a separate Stack Parameter record is entered for each physical (height and diameter) and each logical (vent height) Stack. A Point consists of one or more Process Units aggregated by operating schedule, product line, facility area or material usage. A Process Unit describes the logical portion of a piece of equipment that generates unique emissions. For example, if a boiler bums one fuel (coal) during the winter and another fuel (natural gas) during the summer this would be two logical Process Units.

You may need to break up processes into logical entities for proper data layout in complex facility emissions stream layouts. Each logical Process Unit is tied only to one Stack, so a Process Unit venting to multiple Stacks must be subdivided with the appropriate ratio of production data associated with each process data record.

Also some Process Units emit different sets of pollutants when different fields or inputs are used. A logical Process Unit must be defined for each fuel / input stream so that the proper pollutant emission set is developed.

To identify a Stack when entering Process Unit level data, the Stack must first be identified at the Stack level.

APPENDIX B - DESCRIPTION OF TERMS CONTINUED:

Stack Parameter, Point and Process Unit Relationships Continued:

A process may vent to multiple Stacks at multiple Points depending on how data are interrelated within a Facility. Under this scenario, the Process Unit is logically divided and related to the multiple Points and tied to the Stacks by containing the appropriate Stack Number on the Process unit level.

Multiple Processes may emit to a single Stack by recording the appropriate Stack Number on each of the Process screens. Also multiple processes may emit to multiple Stacks by recording the appropriate Stack Number on each of the related Process Units or logically divided Process Units.

Windows Satellite I-Steps Installation Instructions

1. **Minimum Hardware Requirements include**:

* Microsoft Windows 95 or higher
* 80586 Microprocessor or better
* 90 Megahertz
* 8 MB RAM
* 25 MB hard disk space

i-Steps is written with Microsoft Visual FoxPro Version 5.0 and is a 32 bit ,multi-user application with full record locking capabilities.

2. **System Configuration :**

CONFIG. SYS must contain the following parameters in order for Satellite I-Steps to execute properly:

Files = 99
Buffers = 24.

I-STEPS SATELLITE DOWNLOAD INSTRUCTIONS 2008 ALLEGHENY COUNTY EMISSION INVENTORY

1. Open Internet Explorer.
2. Go to http://www.achd.net/ Select Environment /Air Quality/ Install Isteps**.**
3. Type username:aqisteps.
4. Type password: Achd@Isteps
5. The satellite.exe file will appear.
6. Using the edit menu copy this single file and then paste on your hard drive: the C drive.
7. Click on the exe file and the install wizard will open and begin the installation . Follow the cues and the satellite file will be fully installed.

INITIALS: SAT
PASSWORD: LAUNCH

3.3 **INSTALLING YOUR FIRM'S DATA**

To install inventory data from the 2008 inventory, start SATELLITE I-STEPS as described below.

Select **TOOLBOX** from the main menu, then select **INTERFACES** and finally select **IMPORTS i-STEPS** Files to import are in the folder where the facility zip file has been unzipped after download from the website. The program will ask if you want to have your data bubble up and you should say yes.

When the inventory has been updated with the data from 2003. Export this data to a folder by selecting **TOOLBOX**, then **INTERFACES**, then **EXPORT** and finally the folder to which you wish to export the data. The exported data should be zipped up and the zip file posted to the Air Quality Program Website.

A printout of a plant's data can be generated from the **Reports** option on the main menu. This can be a useful reference. However, if the number of segments and/or pollutants from your facility is large , this report can be voluminous and tie up a printer for a considerable period.

F-2: Area Sources

Area SCC Code	Emission Process Description
2102002000	Industrial Boilers: Bituminous/Subbituminous Coal
2103002000	Institutional/Commercial Heating: Bituminous and Lignite
2103004000	Institutional/Commercial Heating: Distillate Oil
2103005000	Institutional/Commercial Heating: Residual Oil
2103006000	Institutional/Commercial Heating: Natural Gas
2103007000	Institutional/Commercial Heating: Liquified Petroleum Gas
2103011000	Institutional/Commercial Heating: Kerosene
2104002000	Residential Heating: Bituminous and Lignite Coal
2104004000	Residential Heating: Distillate Oil
2104006000	Residential Heating: Natural Gas - All types
2104007000	Residential Heating: Liquified Petroleum Gas
2104008001	Fireplaces
2104008002	Fireplaces: Inserts; non-EPA certified
2104008003	Fireplaces: Inserts; non catalytic, EPA certified
2104008004	Fireplaces: Inserts; catalytic, EPA certified
2104008010	Residential Wood Heating: Woodstoves - conventional
2104008030	Residential Wood Heating: Catalytic Woodstoves - General
2104008050	Residential Heating: Non-catalytic Woodstoves - General
2104011000	Residential Heating: Kerosene - All Heater Types
2294000000	Emissions from paved roads
2296000000	Emissions from unpaved roads
2302000000	Food and Kindred Products Manufacturing, all processes
2302002100	Commercial Charbroiling
2302002200	Commercial Charbroiling
2302003000	Commercial Charbroiling
2302003100	Commercial Charbroiling
2302003200	Commercial Charbroiling
2302050000	Bakery Products
2302070001	Breweries
2302070005	Wineries
2311010000	Residential Construction
2311020000	Commercial Construction Fugitive Dust
2311030000	Road Construction Fugitive Dust
2325000000	Mining and Quarrying
2399000000	Other Industral Processes
2399010000	Ammonia Referigeration
2401001000	Surface Coatings: Architectural, all coating types
2401005000	Autobody Refinishing Paint Application, all solvents
2401008000	Surface Coatings: Traffic Markings, all coating types
2401015000	Surface Coatings: Factory-finished Wood, all coating types
2401020000	Surface Coatings: Wood Furniture, all coating types
2401025000	Surface Coatings: Metal Furniture, all coating types
2401040000	Surface Coatings: Metal Cans
2401045000	Surface Coatings: Metal Coils
2401050000	Surface Coatings: Miscellaneous Finished Parts
2401055000	Surface Coatings: Machinery and Equipment, all coating types
2401060000	Surface Coatings: Large Appliances
2401065000	Surface Coatings: Electronic and Other Electrical, all coating types
2401080000	Surface Coatings: Marine, all coating types
2401085000	Surface Coating: Railroad, all coating types
2401090000	Surface Coatings: Miscellaneous Metals Manufacturing

Area SCC Code	Emission Process Description
2401100000	Surface Coatings: Industrial Maintenance, all coating types
2401200000	Surface Coatings: Other Special Purpose Coatings
2415200000	Degreasing - All Industries: : Conveyerized, all solvent types
2415230000	Degreasing - Electronic and Other Elec.: Conveyerized, all solvent types
2415300000	Degreasing - All Industries: Cold Cleaning, all solvent types
2415360000	Degreasing - Auto Repair Services: Cold Cleaning, all solvent types
2420000370	Dry Cleaning - All Processes: Special Naphthas
2425000000	Graphic Arts: All types and solvents
2430000000	Solvent Use on Rubber/Plastics
2440020000	Industrial Adhesive Application
2461021000	Asphalt Paving: Cutback
2461022000	Asphalt Paving: Emulsified
2461160000	Drum and Barrel Reclamation
2461800000	Commercial Pesticide Application - all areas and types
2465000000	Consumer Products: All Products/Processes, all solvent types
2501060053	Gasoline Distribution - Stage I - Service Stations Storage Tanks
2501060102	Gasoline Distribution Stage II - Displacement Loss/Controlled
2501060201	Underground Storage Tank at Gasoline Service Station: Breathing Losses
2501060300	Protable Gasoline Containers
2501080050	Aviation Gasoline Distribution: Stage I
2501080100	Aviation Gasoline Distribution: Stage II
2505030120	Gasoline Distribution: Gasoline - Truck Transport
2601010000	Waste Diposal, Treatment, and Recovery: Industrial On-site Incineration
2601020000	Waste Diposal, Treatment, and Recovery: Comm/Instit. On-site Incineration
2610000100	Open Burning - Yard Waste - Leaf Species Unspecified
2610000400	Open Burning - Yard Waste - Brush Species Unspecified
2610000500	Open Burning - Land Clearing Debris
2610010000	Open Burning - Industrial
2610020000	Open Burning - Commercial/Institutional
2610030000	Open Burning - Residential, Household Waste
2620030000	Municipal Landfills
2630020010	Public Owned Treatment Works (POTWs): Wastewater Treatment Processes
2630020020	Public Owned Treatment Works (POTWs): Biosolids Processes
2630050000	Public Owned Treatment Works (POTWs): Biosolids Land Application
2640000000	Waste Disposal, Treatment, and Recovery: all types
2680001000	Biosolids Composting
2680002000	Mixed Waste Composting
2801000003	Agricultural Crop Tilling
2801700001	Ammonia Sources
2801700002	Ammonia Sources
2801700003	Ammonia Sources
2801700004	Ammonia Sources
2801700005	Ammonia Sources
2801700006	Ammonia Sources
2801700007	Ammonia Sources
2801700010	Ammonia Sources
2801700011	Ammonia Sources
2801700012	Ammonia Sources
2801700013	Ammonia Sources
2801700014	Ammonia Sources
2801700015	Ammonia Sources

Area SCC Code	Emission Process Description
2801700099	Ammonia Sources
2805001100	Ammonia Sources
2805001200	Ammonia Sources
2805001300	Ammonia Sources
2805002000	Ammonia Sources
2805003100	Ammonia Sources
2805007100	Ammonia Sources
2805007300	Ammonia Sources
2805008100	Ammonia Sources
2805008200	Ammonia Sources
2805008300	Ammonia Sources
2805009100	Ammonia Sources
2805009200	Ammonia Sources
2805009300	Ammonia Sources
2805010100	Ammonia Sources
2805010200	Ammonia Sources
2805010300	Ammonia Sources
2805018000	Ammonia Sources
2805019100	Ammonia Sources
2805019200	Ammonia Sources
2805019300	Ammonia Sources
2805021100	Ammonia Sources
2805021200	Ammonia Sources
2805021300	Ammonia Sources
2805022100	Ammonia Sources
2805022200	Ammonia Sources
2805022300	Ammonia Sources
2805023100	Ammonia Sources
2805023200	Ammonia Sources
2805023300	Ammonia Sources
2805025000	Ammonia Sources
2805030000	Ammonia Sources
2805030007	Ammonia Sources
2805030008	Ammonia Sources
2805035000	Ammonia Sources
2805039100	Ammonia Sources
2805039200	Ammonia Sources
2805039300	Ammonia Sources
2805040000	Ammonia Sources
2805045000	Ammonia Sources
2805047100	Ammonia Sources
2805047300	Ammonia Sources
2805053100	Ammonia Sources
2810001000	Open Burning - Forest and Wildfires
2810015000	Open Burning - Prescribed Burning
2810030000	Structure Fires

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2399010000	NH3	123.97500	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000100	NH3	0.01501	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000400	NH3	0.01501	ANNUAL	2002	P-02-X	---
42003	Allegheny	2630020010	NH3	1.01642	ANNUAL	2002	P-02-X	---
42003	Allegheny	2630020020	NH3	5.34563	ANNUAL	2002	P-02-X	---
42003	Allegheny	2630050000	NH3	25.30263	ANNUAL	2002	P-02-X	---
42003	Allegheny	2680001000	NH3	73.24989	ANNUAL	2002	P-02-X	---
42003	Allegheny	2680002000	NH3	62.50603	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700001	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700002	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700003	NH3	1.89035	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700004	NH3	15.14370	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700005	NH3	0.02148	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700006	NH3	0.07645	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700007	NH3	0.03276	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700010	NH3	33.48180	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700011	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700012	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700013	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700014	NH3	0.06005	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700015	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801700099	NH3	4.95583	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805001100	NH3	2.67960	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805001200	NH3	0.00107	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805001300	NH3	2.15160	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805002000	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805003100	NH3	7.22040	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805007100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805007300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805008100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805008200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805008300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805009100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805009200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805009300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805010100	NH3	0.00000	ANNUAL	2002	P-02-X	---

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2805010200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805010300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805018000	NH3	18.48000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805019100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805019200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805019300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805021100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805021200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805021300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805022100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805022200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805022300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805023100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805023200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805023300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805025000	NH3	1.88760	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805030000	NH3	37.48800	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805030007	NH3	0.19800	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805030008	NH3	0.09926	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805035000	NH3	17.55600	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805039100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805039200	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805039300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805040000	NH3	2.99640	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805045000	NH3	2.03280	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805047100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805047300	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2805053100	NH3	0.00000	ANNUAL	2002	P-02-X	---
42003	Allegheny	2810015000	NH3	0.15188	ANNUAL	2002	E-02-X	---
			TOTAL NH3	440.03066				
			LIB-CLN NH3	7.41584				
42003	Allegheny	2102002000	NOX	555.87736	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103002000	NOX	895.99974	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103004000	NOX	94.87796	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103005000	NOX	56.88980	ANNUAL	2002	S-02-X	---

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2103006000	NOX	624.91734	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103007000	NOX	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103011000	NOX	20.30454	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104002000	NOX	5.60004	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104004000	NOX	49.82115	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104006000	NOX	2159.61382	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104007000	NOX	32.66576	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104008001	NOX	9.64469	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008002	NOX	24.00548	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008004	NOX	0.42867	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008010	NOX	17.16128	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008030	NOX	0.30645	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104011000	NOX	4.84037	ANNUAL	2002	S-02-X	---
42003	Allegheny	2461160000	NOX	2.09091	ANNUAL	2002	E-02-X	---
42003	Allegheny	2601010000	NOX	50.29158	ANNUAL	2002	S-02-X	---
42003	Allegheny	2601020000	NOX	125.82441	ANNUAL	2002	S-02-X	---
42003	Allegheny	2610000100	NOX	0.07384	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000400	NOX	0.05955	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000500	NOX	0.00000	ANNUAL	2002	E-02-X	---
42003	Allegheny	2610010000	NOX	4.66022	ANNUAL	2002	S-02-X	---
42003	Allegheny	2610020000	NOX	18.28662	ANNUAL	2002	S-02-X	---
42003	Allegheny	2610030000	NOX	0.54513	ANNUAL	2002	P-02-X	---
42003	Allegheny	2810001000	NOX	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2810015000	NOX	0.72436	ANNUAL	2002	E-02-X	---
42003	Allegheny	2810030000	NOX	1.83987	ANNUAL	2002	S-02-X	---
			TOTAL NOx	4757.35094				
			LIB-CLN NOx	80.17564				
42003	Allegheny	2102002000	PM10-PRI	239.86950	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103002000	PM10-PRI	372.48557	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103004000	PM10-PRI	14.53794	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103005000	PM10-PRI	9.81918	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103006000	PM10-PRI	54.39561	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103007000	PM10-PRI	0.06730	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103011000	PM10-PRI	2.41624	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104002000	PM10-PRI	4.45542	ANNUAL	2002	S-02-X	---

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2104004000	PM10-PRI	6.58746	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104006000	PM10-PRI	174.60708	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104007000	PM10-PRI	2.11394	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104008001	PM10-PRI	87.54412	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008002	PM10-PRI	262.34561	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008003	PM10-PRI	10.41107	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008004	PM10-PRI	4.37243	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008010	PM10-PRI	187.54833	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008030	PM10-PRI	3.12581	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008050	PM10-PRI	7.44277	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104011000	PM10-PRI	0.66207	ANNUAL	2002	S-02-X	---
42003	Allegheny	2294000000	PM10-PRI	2404.53587	ANNUAL	2002	P-02-X	---
42003	Allegheny	2296000000	PM10-PRI	967.48164	ANNUAL	2002	P-02-X	---
42003	Allegheny	2302002100	PM10-PRI	43.08374	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302002200	PM10-PRI	281.87349	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302003100	PM10-PRI	75.05233	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302003200	PM10-PRI	4.95124	ANNUAL	2002	E-02-X	---
42003	Allegheny	2311010000	PM10-PRI	90.79845	ANNUAL	2002	E-02-X	---
42003	Allegheny	2311020000	PM10-PRI	1773.29951	ANNUAL	2002	E-02-X	---
42003	Allegheny	2311030000	PM10-PRI	1480.43221	ANNUAL	2002	E-02-X	---
42003	Allegheny	2325000000	PM10-PRI	238.87000	ANNUAL	1999	E-99-F-PR	---
42003	Allegheny	2399000000	PM10-PRI	36.85000	ANNUAL	1999	E-99-F-PR	---
42003	Allegheny	2461160000	PM10-PRI	18.18182	ANNUAL	2002	E-02-X	---
42003	Allegheny	2610000100	PM10-PRI	0.26203	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000400	PM10-PRI	0.23499	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000500	PM10-PRI	0.00000	ANNUAL	2002	E-02-X	---
42003	Allegheny	2610030000	PM10-PRI	1.69794	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801000003	PM10-PRI	104.36977	ANNUAL	1998	E-98-G	---
42003	Allegheny	2810001000	PM10-PRI	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2810015000	PM10-PRI	3.28298	ANNUAL	2002	E-02-X	---
			TOTAL PM10	8970.06545				
			LIB-CLN PM10	151.17251				
42003	Allegheny	2102002000	PM25-PRI	95.00449	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103002000	PM25-PRI	163.19093	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103004000	PM25-PRI	9.85218	ANNUAL	2002	S-02-X	---

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2103005000	PM25-PRI	4.62152	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103006000	PM25-PRI	54.39561	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103007000	PM25-PRI	0.06730	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103011000	PM25-PRI	2.16243	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104002000	PM25-PRI	2.97848	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104004000	PM25-PRI	5.89550	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104006000	PM25-PRI	174.60708	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104007000	PM25-PRI	2.11394	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104008001	PM25-PRI	87.54412	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008002	PM25-PRI	262.34561	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008003	PM25-PRI	10.41107	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008004	PM25-PRI	4.37243	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008010	PM25-PRI	187.54833	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008030	PM25-PRI	3.12581	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008050	PM25-PRI	7.44277	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104011000	PM25-PRI	0.59253	ANNUAL	2002	S-02-X	---
42003	Allegheny	2294000000	PM25-PRI	163.89684	ANNUAL	2002	P-02-X	---
42003	Allegheny	2296000000	PM25-PRI	96.84937	ANNUAL	2002	P-02-X	---
42003	Allegheny	2302002100	PM25-PRI	41.76438	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302002200	PM25-PRI	272.48354	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302003100	PM25-PRI	57.03977	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302003200	PM25-PRI	4.19399	ANNUAL	2002	E-02-X	---
42003	Allegheny	2311010000	PM25-PRI	9.07985	ANNUAL	2002	E-02-X	---
42003	Allegheny	2311020000	PM25-PRI	177.32995	ANNUAL	2002	E-02-X	---
42003	Allegheny	2311030000	PM25-PRI	148.04322	ANNUAL	2002	E-02-X	---
42003	Allegheny	2325000000	PM25-PRI	47.77000	ANNUAL	1999	E-99-F-PR	---
42003	Allegheny	2399000000	PM25-PRI	25.54000	ANNUAL	1999	E-99-F-PR	---
42003	Allegheny	2461160000	PM25-PRI	18.18182	ANNUAL	2002	E-02-X	---
42003	Allegheny	2610000100	PM25-PRI	0.26203	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000400	PM25-PRI	0.18115	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000500	PM25-PRI	0.00000	ANNUAL	2002	E-02-X	---
42003	Allegheny	2610030000	PM25-PRI	1.55495	ANNUAL	2002	P-02-X	---
42003	Allegheny	2801000003	PM25-PRI	20.87395	ANNUAL	1998	E-98-G	---
42003	Allegheny	2810001000	PM25-PRI	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2810015000	PM25-PRI	2.81565	ANNUAL	2002	E-02-X	---
			TOTAL PM2.5	2166.13259				

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
			LIB-CLN PM2.5	36.50583				
42003	Allegheny	2102002000	SO2	1549.04490	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103002000	SO2	2116.52234	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103004000	SO2	765.62440	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103005000	SO2	170.51423	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103006000	SO2	4.29217	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103007000	SO2	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103011000	SO2	43.24867	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104002000	SO2	46.16648	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104004000	SO2	117.91006	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104006000	SO2	13.78477	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104007000	SO2	0.12600	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104008001	SO2	1.48380	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008002	SO2	3.42935	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008003	SO2	0.21247	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008004	SO2	0.08573	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008010	SO2	2.45161	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008030	SO2	0.06129	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008050	SO2	0.15189	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104011000	SO2	11.43329	ANNUAL	2002	S-02-X	---
42003	Allegheny	2399000000	SO2	16.49000	ANNUAL	1999	E-99-F	---
42003	Allegheny	2610000100	SO2	0.00905	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000400	SO2	0.01977	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610030000	SO2	0.09115	ANNUAL	2002	P-02-X	---
42003	Allegheny	2810001000	SO2	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2810015000	SO2	0.19861	ANNUAL	2002	E-02-X	---
			TOTAL SO2	4863.35206				
			LIB-CLN SO2	81.96207				
42003	Allegheny	2102002000	VOC	21.89820	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103002000	VOC	38.91906	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103004000	VOC	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103005000	VOC	1.16883	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103006000	VOC	39.27180	ANNUAL	2002	S-02-X	---
42003	Allegheny	2103007000	VOC	0.00000	ANNUAL	2002	S-02-X	---

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2103011000	VOC	0.34518	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104002000	VOC	6.15389	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104004000	VOC	1.93749	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104006000	VOC	126.36038	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104007000	VOC	1.16663	ANNUAL	2002	S-02-X	---
42003	Allegheny	2104008001	VOC	849.47475	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008002	VOC	454.38945	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008003	VOC	6.37413	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008004	VOC	3.21502	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008010	VOC	324.83860	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008030	VOC	2.29839	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104008050	VOC	4.55680	ANNUAL	2001	E-01-G	---
42003	Allegheny	2104011000	VOC	0.19473	ANNUAL	2002	S-02-X	---
42003	Allegheny	2302000000	VOC	285.33000	ANNUAL	1999	E-99-F	---
42003	Allegheny	2302002100	VOC	10.77920	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302002200	VOC	33.81086	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302003000	VOC	5.62285	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302003100	VOC	4.49970	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302003200	VOC	0.17948	ANNUAL	2002	E-02-X	---
42003	Allegheny	2302050000	VOC	107.25021	ANNUAL	2002	S-02-X	---
42003	Allegheny	2302070001	VOC	0.00000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2302070005	VOC	0.00976	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401001000	VOC	1585.90691	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401005000	VOC	570.42818	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401008000	VOC	233.17672	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401015000	VOC	40.28250	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401020000	VOC	127.53408	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401025000	VOC	388.86950	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401040000	VOC	144.69600	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401045000	VOC	289.22000	ANNUAL	1999	E-99-F	---
42003	Allegheny	2401050000	VOC	965.79551	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401055000	VOC	190.34400	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401060000	VOC	34.72500	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401065000	VOC	8.41000	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401080000	VOC	8.00800	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401085000	VOC	42.66370	ANNUAL	2002	S-02-X	---

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2401090000	VOC	367.78275	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401100000	VOC	406.36928	ANNUAL	2002	S-02-X	---
42003	Allegheny	2401200000	VOC	406.36950	ANNUAL	2002	S-02-X	---
42003	Allegheny	2415200000	VOC	154.31873	ANNUAL	2002	S-02-X	---
42003	Allegheny	2415230000	VOC	66.13660	ANNUAL	2002	S-02-X	---
42003	Allegheny	2415300000	VOC	324.15562	ANNUAL	2002	S-02-X	---
42003	Allegheny	2415360000	VOC	749.24336	ANNUAL	2002	S-02-X	---
42003	Allegheny	2420000370	VOC	95.24280	ANNUAL	2002	S-02-X	---
42003	Allegheny	2425000000	VOC	756.40843	ANNUAL	2002	S-02-X	---
42003	Allegheny	2430000000	VOC	63.56000	ANNUAL	1999	E-99-F	---
42003	Allegheny	2440020000	VOC	756.21000	ANNUAL	1999	E-99-F	---
42003	Allegheny	2461021000	VOC	132.61470	ANNUAL	2002	S-02-X	---
42003	Allegheny	2461022000	VOC	57.17800	ANNUAL	2002	S-02-X	---
42003	Allegheny	2461800000	VOC	18.42269	ANNUAL	2002	S-02-X	---
42003	Allegheny	2465000000	VOC	4494.15978	ANNUAL	2002	S-02-X	---
42003	Allegheny	2501060053	VOC	120.31854	ANNUAL	2002	S-02-X	---
42003	Allegheny	2501060102	VOC	573.55658	ANNUAL	2002	S-02-X	---
42003	Allegheny	2501060201	VOC	73.65725	ANNUAL	2002	S-02-X	---
42003	Allegheny	2501060300	VOC	1321.52260	ANNUAL	2002	S-02-X	---
42003	Allegheny	2501080050	VOC	43.37455	ANNUAL	2002	E-02-X	---
42003	Allegheny	2501080100	VOC	2.63636	ANNUAL	2002	E-02-X	---
42003	Allegheny	2505030120	VOC	14.31164	ANNUAL	2002	S-02-X	---
42003	Allegheny	2601010000	VOC	133.20474	ANNUAL	2002	S-02-X	---
42003	Allegheny	2601020000	VOC	335.88481	ANNUAL	2002	S-02-X	---
42003	Allegheny	2610000100	VOC	0.33349	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000400	VOC	0.22629	ANNUAL	2002	P-02-X	---
42003	Allegheny	2610000500	VOC	0.00000	ANNUAL	2002	E-02-X	---
42003	Allegheny	2610010000	VOC	23.30112	ANNUAL	2002	S-02-X	---
42003	Allegheny	2610020000	VOC	91.43309	ANNUAL	2002	S-02-X	---
42003	Allegheny	2610030000	VOC	0.38230	ANNUAL	2002	P-02-X	---
42003	Allegheny	2620030000	VOC	669.95197	ANNUAL	2002	S-02-X	---
42003	Allegheny	2630020010	VOC	318.97590	ANNUAL	2002	P-02-X	---
42003	Allegheny	2640000000	VOC	310.06000	ANNUAL	1999	E-99-F	---
42003	Allegheny	2680001000	VOC	37.96488	ANNUAL	2002	P-02-X	---
42003	Allegheny	2680002000	VOC	69.40171	ANNUAL	2002	P-02-X	---
42003	Allegheny	2810001000	VOC	0.00000	ANNUAL	2002	S-02-X	---

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2810015000	VOC	1.58892	ANNUAL	2002	E-02-X	---
42003	Allegheny	2810030000	VOC	14.45608	ANNUAL	2002	S-02-X	---
			TOTAL VOC	19964.82054				
			LIB-CLN VOC	336.46712				

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2399010000	NH3	123.97500	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000100	NH3	0.01410	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000400	NH3	0.01410	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2630020010	NH3	1.14630	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2630020020	NH3	6.02880	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2630050000	NH3	28.53650	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2680001000	NH3	68.85120	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2680002000	NH3	58.75250	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700001	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700002	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700003	NH3	2.51770	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700004	NH3	20.16940	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700005	NH3	0.02860	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700006	NH3	0.10180	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700007	NH3	0.04360	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700010	NH3	44.59330	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700011	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700012	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700013	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700014	NH3	0.08000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700015	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801700099	NH3	6.60050	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805001100	NH3	3.56890	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805001200	NH3	0.00140	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805001300	NH3	2.86560	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805002000	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805003100	NH3	9.61660	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805007100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805007300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2805008100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805008200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805008300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805009100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805009200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805009300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805010100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805010200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805010300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805018000	NH3	24.61290	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805019100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805019200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805019300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805021100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805021200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805021300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805022100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805022200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805022300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805023100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805023200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805023300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805025000	NH3	2.51400	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805030000	NH3	49.92900	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805030007	NH3	0.26370	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805030008	NH3	0.13220	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805035000	NH3	23.38230	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805039100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805039200	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805039300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805040000	NH3	3.99080	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805045000	NH3	2.70740	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805047100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805047300	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2805053100	NH3	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2810015000	NH3	0.09120	ANNUAL	2012	MACPROJ	RxFIRE

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
			TOTAL NH3	485.12940				
			LIB-CLN NH3	8.17589				
42003	Allegheny	2102002000	NOX	586.76520	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103002000	NOX	933.02420	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103004000	NOX	103.18430	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103005000	NOX	53.44060	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103006000	NOX	647.08130	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103007000	NOX	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103011000	NOX	28.15720	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104002000	NOX	5.80170	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104004000	NOX	49.85460	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104006000	NOX	2402.03050	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104007000	NOX	36.28090	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008001	NOX	9.41950	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008002	NOX	23.44510	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008004	NOX	0.41870	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008010	NOX	16.76070	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008030	NOX	0.29930	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104011000	NOX	8.69090	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2461160000	NOX	2.68240	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2601010000	NOX	52.28840	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2601020000	NOX	130.82020	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000100	NOX	0.06940	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000400	NOX	0.05600	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000500	NOX	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610010000	NOX	4.84530	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610020000	NOX	19.01270	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610030000	NOX	0.51240	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2810001000	NOX	0.00000	ANNUAL	2012	MACPROJ	WFIRE
42003	Allegheny	2810015000	NOX	0.43520	ANNUAL	2012	MACPROJ	RxFIRE
42003	Allegheny	2810030000	NOX	1.72940	ANNUAL	2012	MACPROJ	GROWONLY
			TOTAL NOx	5117.10610				
			LIB-CLN NOx	86.23859				
42003	Allegheny	2102002000	PM10-PRI	253.19810	ANNUAL	2012	MACPROJ	GROWONLY

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2103002000	PM10-PRI	387.87740	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103004000	PM10-PRI	15.81070	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103005000	PM10-PRI	9.22380	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103006000	PM10-PRI	56.32490	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103007000	PM10-PRI	0.07160	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103011000	PM10-PRI	3.35070	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104002000	PM10-PRI	4.61590	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104004000	PM10-PRI	6.59190	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104006000	PM10-PRI	194.20670	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104007000	PM10-PRI	2.34790	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008001	PM10-PRI	85.50040	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008002	PM10-PRI	153.83520	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2104008003	PM10-PRI	10.16800	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008004	PM10-PRI	4.27040	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008010	PM10-PRI	109.97530	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2104008030	PM10-PRI	3.05280	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008050	PM10-PRI	7.26900	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104011000	PM10-PRI	1.18870	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2294000000	PM10-PRI	2260.14110	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2296000000	PM10-PRI	909.38340	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302002100	PM10-PRI	44.82450	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302002200	PM10-PRI	293.26230	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302003100	PM10-PRI	78.08470	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302003200	PM10-PRI	5.15130	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2311010000	PM10-PRI	108.21030	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2311020000	PM10-PRI	2113.35450	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2311030000	PM10-PRI	1764.32580	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2325000000	PM10-PRI	260.77750	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2399000000	PM10-PRI	54.51460	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2461160000	PM10-PRI	23.32520	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000100	PM10-PRI	0.24630	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000400	PM10-PRI	0.22090	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000500	PM10-PRI	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610030000	PM10-PRI	1.59600	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801000003	PM10-PRI	139.00670	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2810001000	PM10-PRI	0.00000	ANNUAL	2012	MACPROJ	WFIRE

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2810015000	PM10-PRI	1.97230	ANNUAL	2012	MACPROJ	RxFIRE
			TOTAL PM10	9367.27680				
			LIB-CLN PM10	157.86672				
42003	Allegheny	2102002000	PM25-PRI	100.28350	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103002000	PM25-PRI	169.93430	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103004000	PM25-PRI	10.71470	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103005000	PM25-PRI	4.34130	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103006000	PM25-PRI	56.32490	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103007000	PM25-PRI	0.07160	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103011000	PM25-PRI	2.99870	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104002000	PM25-PRI	3.08580	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104004000	PM25-PRI	5.89950	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104006000	PM25-PRI	194.20670	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104007000	PM25-PRI	2.34790	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008001	PM25-PRI	85.50040	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008002	PM25-PRI	153.83520	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2104008003	PM25-PRI	10.16800	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008004	PM25-PRI	4.27040	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008010	PM25-PRI	109.97530	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2104008030	PM25-PRI	3.05280	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008050	PM25-PRI	7.26900	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104011000	PM25-PRI	1.06390	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2294000000	PM25-PRI	154.05470	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2296000000	PM25-PRI	91.03350	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302002100	PM25-PRI	43.45180	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302002200	PM25-PRI	283.49300	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302003100	PM25-PRI	59.34440	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302003200	PM25-PRI	4.36340	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2311010000	PM25-PRI	10.82100	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2311020000	PM25-PRI	211.33550	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2311030000	PM25-PRI	176.43260	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2325000000	PM25-PRI	52.15110	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2399000000	PM25-PRI	37.78300	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2461160000	PM25-PRI	23.32520	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000100	PM25-PRI	0.24630	ANNUAL	2012	MACPROJ	GROWONLY

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2610000400	PM25-PRI	0.17030	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000500	PM25-PRI	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610030000	PM25-PRI	1.46160	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2801000003	PM25-PRI	27.80130	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2810001000	PM25-PRI	0.00000	ANNUAL	2012	MACPROJ	WFIRE
42003	Allegheny	2810015000	PM25-PRI	1.69150	ANNUAL	2012	MACPROJ	RxFIRE
			TOTAL PM2.5	2104.30410				
			LIB-CLN PM2.5	35.46384				
42003	Allegheny	2102002000	SO2	1635.11910	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103002000	SO2	2203.98130	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103004000	SO2	832.65330	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103005000	SO2	160.17600	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103006000	SO2	4.44440	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103007000	SO2	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103011000	SO2	59.97490	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104002000	SO2	47.82920	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104004000	SO2	117.98930	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104006000	SO2	15.33210	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104007000	SO2	0.13990	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008001	SO2	1.44920	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008002	SO2	3.34930	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008003	SO2	0.20750	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008004	SO2	0.08370	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008010	SO2	2.39440	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008030	SO2	0.05990	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008050	SO2	0.14830	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104011000	SO2	20.52840	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2399000000	SO2	24.39470	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000100	SO2	0.00850	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000400	SO2	0.01860	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610030000	SO2	0.08570	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2810001000	SO2	0.00000	ANNUAL	2012	MACPROJ	WFIRE
42003	Allegheny	2810015000	SO2	0.11930	ANNUAL	2012	MACPROJ	RxFIRE
			TOTAL SO2	5130.48700				
			LIB-CLN SO2	86.46410				

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2102002000	VOC	23.11500	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103002000	VOC	40.52730	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103004000	VOC	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103005000	VOC	1.09800	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103006000	VOC	40.66460	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103007000	VOC	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2103011000	VOC	0.47870	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104002000	VOC	6.37550	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104004000	VOC	1.93880	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104006000	VOC	140.54430	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104007000	VOC	1.29570	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008001	VOC	829.64380	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008002	VOC	186.74340	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2104008003	VOC	6.22530	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008004	VOC	3.14000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008010	VOC	133.50100	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2104008030	VOC	2.24470	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104008050	VOC	4.45040	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2104011000	VOC	0.34960	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302000000	VOC	298.21780	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302002100	VOC	11.21470	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302002200	VOC	35.17700	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302003000	VOC	5.85000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302003100	VOC	4.68150	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302003200	VOC	0.18670	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302050000	VOC	111.50850	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302070001	VOC	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2302070005	VOC	0.00980	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401001000	VOC	1028.56340	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2401005000	VOC	546.44000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401008000	VOC	151.23020	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2401015000	VOC	41.88190	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401020000	VOC	132.59780	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401025000	VOC	486.48390	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401040000	VOC	150.44110	ANNUAL	2012	MACPROJ	GROWONLY

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2401045000	VOC	401.17620	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401050000	VOC	1301.47320	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401055000	VOC	486.47740	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401060000	VOC	38.27050	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401065000	VOC	8.74390	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401080000	VOC	8.32600	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401085000	VOC	51.64990	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401090000	VOC	345.69700	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2401100000	VOC	263.55680	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2401200000	VOC	263.55700	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2415200000	VOC	145.05170	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2415230000	VOC	62.16500	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2415300000	VOC	304.68970	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2415360000	VOC	704.25050	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2420000370	VOC	89.52340	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2425000000	VOC	710.98530	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2430000000	VOC	90.74450	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2440020000	VOC	1118.70990	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2461021000	VOC	170.12980	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2461022000	VOC	73.35300	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2461800000	VOC	17.31640	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2465000000	VOC	3624.43310	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2501060053	VOC	116.66510	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2501060102	VOC	362.71490	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2501060201	VOC	71.42060	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2501060300	VOC	693.12740	ANNUAL	2012	MACPROJ	GROANDCNTRL
42003	Allegheny	2501080050	VOC	60.17430	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2501080100	VOC	3.65750	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2505030120	VOC	13.87710	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2601010000	VOC	138.49360	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2601020000	VOC	349.22100	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000100	VOC	0.31350	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000400	VOC	0.21270	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610000500	VOC	0.00000	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610010000	VOC	24.22630	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2610020000	VOC	95.06340	ANNUAL	2012	MACPROJ	GROWONLY

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source	Projection Factor
42003	Allegheny	2610030000	VOC	0.35930	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2620030000	VOC	755.57650	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2630020010	VOC	359.74330	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2640000000	VOC	349.68780	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2680001000	VOC	35.68510	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2680002000	VOC	65.23410	ANNUAL	2012	MACPROJ	GROWONLY
42003	Allegheny	2810001000	VOC	0.00000	ANNUAL	2012	MACPROJ	WFIRE
42003	Allegheny	2810015000	VOC	0.95460	ANNUAL	2012	MACPROJ	RxFIRE
42003	Allegheny	2810030000	VOC	13.58800	ANNUAL	2012	MACPROJ	GROWONLY
			TOTAL VOC	18217.09670				
			LIB-CLN VOC	307.01273				

F-3: Nonroad Sources

Nonroad SCC Code	Emission Equipment	Classification
2260001010	Motorcycles: Off-Road	Recreational Equipment
2260001020	Snowmobiles	Recreational Equipment
2260001030	ATVs	Recreational Equipment
2260001060	Specialty Vehicles/Carts	Recreational Equipment
2260002006	Tampers/Rammers	Construction and Mining Equipment
2260002009	Plate Compactors	Construction and Mining Equipment
2260002021	Paving Equipment	Construction and Mining Equipment
2260002027	Signal Boards/Light Plants	Construction and Mining Equipment
2260002039	Concrete/Industrial Saws	Construction and Mining Equipment
2260002054	Crushing/Proc. Equipment	Construction and Mining Equipment
2260003030	Sweepers/Scrubbers	Industrial Equipment
2260003040	Other General Industrial Eqp	Industrial Equipment
2260004015	Rotary Tillers < 6 HP	Lawn and Garden Equipment (Res)
2260004016	Rotary Tillers < 6 HP	Lawn and Garden Equipment (Com)
2260004020	Chain Saws < 6 HP	Lawn and Garden Equipment (Res)
2260004021	Chain Saws < 6 HP	Lawn and Garden Equipment (Com)
2260004025	Trimmers/Edgers/Brush Cutter	Lawn and Garden Equipment (Res)
2260004026	Trimmers/Edgers/Brush Cutter	Lawn and Garden Equipment (Com)
2260004030	Leafblowers/Vacuums	Lawn and Garden Equipment (Res)
2260004031	Leafblowers/Vacuums	Lawn and Garden Equipment (Com)
2260004035	Snowblowers	Lawn and Garden Equipment (Res)
2260004036	Snowblowers	Lawn and Garden Equipment (Com)
2260004071	Commercial Turf Equipment	Lawn and Garden Equipment (Com)
2260005035	Sprayers	Agricultural Equipment
2260006005	Generator Sets	Commercial Equipment
2260006010	Pumps	Commercial Equipment
2260006015	Air Compressors	Commercial Equipment
2260006035	Hydro Power Units	Commercial Equipment
2260007005	Chain Saws > 6 HP	Logging Equipment
2265001010	Motorcycles: Off-Road	Recreational Equipment
2265001030	ATVs	Recreational Equipment
2265001050	Golf Carts	Recreational Equipment
2265001060	Specialty Vehicles/Carts	Recreational Equipment
2265002003	Pavers	Construction and Mining Equipment
2265002006	Tampers/Rammers	Construction and Mining Equipment
2265002009	Plate Compactors	Construction and Mining Equipment
2265002015	Rollers	Construction and Mining Equipment
2265002021	Paving Equipment	Construction and Mining Equipment
2265002024	Surfacing Equipment	Construction and Mining Equipment
2265002027	Signal Boards/Light Plants	Construction and Mining Equipment
2265002030	Trenchers	Construction and Mining Equipment
2265002033	Bore/Drill Rigs	Construction and Mining Equipment
2265002039	Concrete/Industrial Saws	Construction and Mining Equipment
2265002042	Cement & Mortar Mixers	Construction and Mining Equipment
2265002045	Cranes	Construction and Mining Equipment
2265002054	Crushing/Proc. Equipment	Construction and Mining Equipment
2265002057	Rough Terrain Forklifts	Construction and Mining Equipment
2265002060	Rubber Tire Loaders	Construction and Mining Equipment
2265002066	Tractors/Loaders/Backhoes	Construction and Mining Equipment
2265002072	Skid Steer Loaders	Construction and Mining Equipment
2265002078	Dumpers/Tenders	Construction and Mining Equipment

Nonroad SCC Code	Emission Equipment	Classification
2265002081	Other Construction Equipment	Construction and Mining Equipment
2265003010	Aerial Lifts	Industrial Equipment
2265003020	Forklifts	Industrial Equipment
2265003030	Sweepers/Scrubbers	Industrial Equipment
2265003040	Other General Industrial Eqp	Industrial Equipment
2265003050	Other Material Handling Eqp	Industrial Equipment
2265003060	AC\Refrigeration	Industrial Equipment
2265003070	Terminal Tractors	Industrial Equipment
2265004010	Lawn mowers	Lawn and Garden Equipment (Res)
2265004011	Lawn mowers	Lawn and Garden Equipment (Com)
2265004015	Rotary Tillers < 6 HP	Lawn and Garden Equipment (Res)
2265004016	Rotary Tillers < 6 HP	Lawn and Garden Equipment (Com)
2265004025	Trimmers/Edgers/Brush Cutter	Lawn and Garden Equipment (Res)
2265004026	Trimmers/Edgers/Brush Cutter	Lawn and Garden Equipment (Com)
2265004030	Leafblowers/Vacuums	Lawn and Garden Equipment (Res)
2265004031	Leafblowers/Vacuums	Lawn and Garden Equipment (Com)
2265004035	Snowblowers	Lawn and Garden Equipment (Res)
2265004036	Snowblowers	Lawn and Garden Equipment (Com)
2265004040	Rear Engine Riding Mowers	Lawn and Garden Equipment (Res)
2265004041	Rear Engine Riding Mowers	Lawn and Garden Equipment (Com)
2265004046	Front Mowers	Lawn and Garden Equipment (Com)
2265004051	Shredders < 6 HP	Lawn and Garden Equipment (Com)
2265004055	Lawn & Garden Tractors	Lawn and Garden Equipment (Res)
2265004056	Lawn & Garden Tractors	Lawn and Garden Equipment (Com)
2265004066	Chippers/Stump Grinders	Lawn and Garden Equipment (Com)
2265004071	Commercial Turf Equipment	Lawn and Garden Equipment (Com)
2265004075	Other Lawn & Garden Eqp.	Lawn and Garden Equipment (Res)
2265004076	Other Lawn & Garden Eqp.	Lawn and Garden Equipment (Com)
2265005010	2-Wheel Tractors	Agricultural Equipment
2265005015	Agricultural Tractors	Agricultural Equipment
2265005020	Combines	Agricultural Equipment
2265005025	Balers	Agricultural Equipment
2265005030	Agricultural Mowers	Agricultural Equipment
2265005035	Sprayers	Agricultural Equipment
2265005040	Tillers > 6 HP	Agricultural Equipment
2265005045	Swathers	Agricultural Equipment
2265005055	Other Agricultural Equipment	Agricultural Equipment
2265005060	Irrigation Sets	Agricultural Equipment
2265006005	Generator Sets	Commercial Equipment
2265006010	Pumps	Commercial Equipment
2265006015	Air Compressors	Commercial Equipment
2265006025	Welders	Commercial Equipment
2265006030	Pressure Washers	Commercial Equipment
2265006035	Hydro Power Units	Commercial Equipment
2265007010	Shredders > 6 HP	Logging Equipment
2265007015	Forest Eqp - Feller/Bunch/Skidder	Logging Equipment
2265008005	Airport Ground Support Equipment	Airport Equipment
2265010010	Other Oil Field Equipment	Industrial Equipment
2267001060	Specialty Vehicle Carts	Recreational Equipment
2267002003	Pavers	Construction and Mining Equipment
2267002015	Rollers	Construction and Mining Equipment

Nonroad SCC Code	Emission Equipment	Classification
2267002021	Paving Equipment	Construction and Mining Equipment
2267002024	Surfacing Equipment	Construction and Mining Equipment
2267002030	Trenchers	Construction and Mining Equipment
2267002033	Bore/Drill Rigs	Construction and Mining Equipment
2267002039	Concrete/Industrial Saws	Construction and Mining Equipment
2267002045	Cranes	Construction and Mining Equipment
2267002054	Crushing/Proc. Equipment	Construction and Mining Equipment
2267002057	Rough Terrain Forklifts	Construction and Mining Equipment
2267002060	Rubber Tire Loaders	Construction and Mining Equipment
2267002066	Tractors/Loaders/Backhoes	Construction and Mining Equipment
2267002072	Skid Steer Loaders	Construction and Mining Equipment
2267002081	Other Construction Equipment	Construction and Mining Equipment
2267003010	Aerial Lifts	Industrial Equipment
2267003020	Forklifts	Industrial Equipment
2267003030	Sweepers/Scrubbers	Industrial Equipment
2267003040	Other General Industrial Equipm	Industrial Equipment
2267003050	Other Material Handling Equipment	Industrial Equipment
2267003070	Terminal Tractors	Industrial Equipment
2267004066	Chippers/Stump Grinders	Lawn and Garden Equipment (Com)
2267005055	Other Agricultural Equipment	Agricultural Equipment
2267005060	Irrigation Sets	Agricultural Equipment
2267006005	Generator Sets	Commercial Equipment
2267006010	Pumps	Commercial Equipment
2267006015	Air Compressors	Commercial Equipment
2267006025	Welders	Commercial Equipment
2267006030	Pressure Washers	Commercial Equipment
2267006035	Hydro Power Units	Commercial Equipment
2267008005	Airport Ground Support Equipment	Airport Equipment
2268002081	Other Construction Equipment	Construction and Mining Equipment
2268003020	Forklifts	Industrial Equipment
2268003030	Sweepers/Scrubbers	Industrial Equipment
2268003040	Other General Industrial Equipment	Industrial Equipment
2268003060	AC\Refrigeration	Industrial Equipment
2268003070	Terminal Tractors	Industrial Equipment
2268005055	Other Agricultural Equipment	Agricultural Equipment
2268005060	Irrigation Sets	Agricultural Equipment
2268006005	Generator Sets	Commercial Equipment
2268006010	Pumps	Commercial Equipment
2268006015	Air Compressors	Commercial Equipment
2268006020	Gas Compressors	Commercial Equipment
2268006035	Hydro Power Units	Commercial Equipment
2268010010	Other Oil Field Equipment	Industrial Equipment
2270001060	Speciality Vehicle Carts	Recreational Equipment
2270002003	Pavers	Construction and Mining Equipment
2270002006	Tampers/Rammers	Construction and Mining Equipment
2270002009	Plate Compactors	Construction and Mining Equipment
2270002015	Rollers	Construction and Mining Equipment
2270002018	Scrapers	Construction and Mining Equipment
2270002021	Paving Equipment	Construction and Mining Equipment
2270002024	Surfacing Equipment	Construction and Mining Equipment
2270002027	Signal Boards/Light Plants	Construction and Mining Equipment

Nonroad SCC Code	Emission Equipment	Classification
2270002030	Trenchers	Construction and Mining Equipment
2270002033	Bore/Drill Rigs	Construction and Mining Equipment
2270002036	Excavators	Construction and Mining Equipment
2270002039	Concrete/Industrial Saws	Construction and Mining Equipment
2270002042	Cement & Mortar Mixers	Construction and Mining Equipment
2270002045	Cranes	Construction and Mining Equipment
2270002048	Graders	Construction and Mining Equipment
2270002051	Off-highway Trucks	Construction and Mining Equipment
2270002054	Crushing/Proc. Equipment	Construction and Mining Equipment
2270002057	Rough Terrain Forklifts	Construction and Mining Equipment
2270002060	Rubber Tire Loaders	Construction and Mining Equipment
2270002066	Tractors/Loaders/Backhoes	Construction and Mining Equipment
2270002069	Crawler Tractor/Dozers	Construction and Mining Equipment
2270002072	Skid Steer Loaders	Construction and Mining Equipment
2270002075	Off-Highway Tractors	Construction and Mining Equipment
2270002078	Dumpers/Tenders	Construction and Mining Equipment
2270002081	Other Construction Equipment	Construction and Mining Equipment
2270003010	Aerial Lifts	Industrial Equipment
2270003020	Forklifts	Industrial Equipment
2270003030	Sweepers/Scrubbers	Industrial Equipment
2270003040	Other General Industrial Eqp	Industrial Equipment
2270003050	Other Material Handling Eqp	Industrial Equipment
2270003060	AC\Refrigeration	Industrial Equipment
2270003070	Terminal Tractors	Industrial Equipment
2270004031	Leafblowers/Vacuums	Lawn and Garden Equipment (Com)
2270004036	Snowblowers	Lawn and Garden Equipment (Com)
2270004046	Front Mowers	Lawn and Garden Equipment (Com)
2270004056	Lawn & Garden Tractors	Lawn and Garden Equipment (Com)
2270004066	Chippers/Stump Grinders	Lawn and Garden Equipment (Com)
2270004071	Commercial Turf Equipment	Lawn and Garden Equipment (Com)
2270004076	Other Lawn & Garden Eqp.	Lawn and Garden Equipment (Com)
2270005010	2-Wheel Tractors	Agricultural Equipment
2270005015	Agricultural Tractors	Agricultural Equipment
2270005020	Combines	Agricultural Equipment
2270005025	Balers	Agricultural Equipment
2270005030	Agricultural Mowers	Agricultural Equipment
2270005035	Sprayers	Agricultural Equipment
2270005040	Tillers > 6 HP	Agricultural Equipment
2270005045	Swathers	Agricultural Equipment
2270005055	Other Agricultural Equipment	Agricultural Equipment
2270005060	Irrigation Sets	Agricultural Equipment
2270006005	Generator Sets	Commercial Equipment
2270006010	Pumps	Commercial Equipment
2270006015	Air Compressors	Commercial Equipment
2270006020	Gas Compressors	Commercial Equipment
2270006025	Welders	Commercial Equipment
2270006030	Pressure Washers	Commercial Equipment
2270006035	Hydro Power Units	Commercial Equipment
2270007010	Shredders > 6 HP	Logging Equipment
2270007015	Forest Eqp - Feller/Bunch/Skidder	Logging Equipment
2270008005	Airport Ground Support Equipment	Airport Equipment

Nonroad SCC Code	Emission Equipment	Classification
2270009010	Other Underground Mining Equipment	Construction and Mining Equipment
2270010010	Other Oil Field Equipment	Industrial Equipment
2282005010	Outboard	Pleasure Craft
2282005015	Personal Water Craft	Pleasure Craft
2282010005	Inboard/Sterndrive	Pleasure Craft
2282020005	Inboard/Sterndrive	Pleasure Craft
2282020010	Outboards	Pleasure Craft
2285002015	Railway Maintenance	Railroad Equipment
2285004015	Railway Maintenance	Railroad Equipment
2285006015	Railway Maintenance	Railroad Equipment

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2260001010	NH3	0.00603	ANNUAL	2002	E-02-X
42003	Allegheny	2260001020	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260001030	NH3	0.00485	ANNUAL	2002	E-02-X
42003	Allegheny	2260001060	NH3	0.00128	ANNUAL	2002	E-02-X
42003	Allegheny	2260002006	NH3	0.00321	ANNUAL	2002	E-02-X
42003	Allegheny	2260002009	NH3	0.00018	ANNUAL	2002	E-02-X
42003	Allegheny	2260002021	NH3	0.00022	ANNUAL	2002	E-02-X
42003	Allegheny	2260002027	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260002039	NH3	0.00825	ANNUAL	2002	E-02-X
42003	Allegheny	2260002054	NH3	0.00004	ANNUAL	2002	E-02-X
42003	Allegheny	2260003030	NH3	0.00010	ANNUAL	2002	E-02-X
42003	Allegheny	2260003040	NH3	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2260004015	NH3	0.00099	ANNUAL	2002	E-02-X
42003	Allegheny	2260004016	NH3	0.00281	ANNUAL	2002	E-02-X
42003	Allegheny	2260004020	NH3	0.01345	ANNUAL	2002	E-02-X
42003	Allegheny	2260004021	NH3	0.03480	ANNUAL	2002	E-02-X
42003	Allegheny	2260004025	NH3	0.01862	ANNUAL	2002	E-02-X
42003	Allegheny	2260004026	NH3	0.02727	ANNUAL	2002	E-02-X
42003	Allegheny	2260004030	NH3	0.01202	ANNUAL	2002	E-02-X
42003	Allegheny	2260004031	NH3	0.02655	ANNUAL	2002	E-02-X
42003	Allegheny	2260004035	NH3	0.00476	ANNUAL	2002	E-02-X
42003	Allegheny	2260004036	NH3	0.00660	ANNUAL	2002	E-02-X
42003	Allegheny	2260004071	NH3	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2260005035	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260006005	NH3	0.00181	ANNUAL	2002	E-02-X
42003	Allegheny	2260006010	NH3	0.01201	ANNUAL	2002	E-02-X
42003	Allegheny	2260006015	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260006035	NH3	0.00007	ANNUAL	2002	E-02-X
42003	Allegheny	2260007005	NH3	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2265001010	NH3	0.00175	ANNUAL	2002	E-02-X
42003	Allegheny	2265001030	NH3	0.01672	ANNUAL	2002	E-02-X
42003	Allegheny	2265001050	NH3	0.05404	ANNUAL	2002	E-02-X
42003	Allegheny	2265001060	NH3	0.00105	ANNUAL	2002	E-02-X
42003	Allegheny	2265002003	NH3	0.00180	ANNUAL	2002	E-02-X
42003	Allegheny	2265002006	NH3	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2265002009	NH3	0.00325	ANNUAL	2002	E-02-X
42003	Allegheny	2265002015	NH3	0.00315	ANNUAL	2002	E-02-X
42003	Allegheny	2265002021	NH3	0.00634	ANNUAL	2002	E-02-X
42003	Allegheny	2265002024	NH3	0.00260	ANNUAL	2002	E-02-X
42003	Allegheny	2265002027	NH3	0.00013	ANNUAL	2002	E-02-X
42003	Allegheny	2265002030	NH3	0.00552	ANNUAL	2002	E-02-X
42003	Allegheny	2265002033	NH3	0.00184	ANNUAL	2002	E-02-X
42003	Allegheny	2265002039	NH3	0.01134	ANNUAL	2002	E-02-X
42003	Allegheny	2265002042	NH3	0.00571	ANNUAL	2002	E-02-X
42003	Allegheny	2265002045	NH3	0.00045	ANNUAL	2002	E-02-X
42003	Allegheny	2265002054	NH3	0.00074	ANNUAL	2002	E-02-X
42003	Allegheny	2265002057	NH3	0.00071	ANNUAL	2002	E-02-X
42003	Allegheny	2265002060	NH3	0.00175	ANNUAL	2002	E-02-X
42003	Allegheny	2265002066	NH3	0.00376	ANNUAL	2002	E-02-X
42003	Allegheny	2265002072	NH3	0.00269	ANNUAL	2002	E-02-X
42003	Allegheny	2265002078	NH3	0.00090	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265002081	NH3	0.00061	ANNUAL	2002	E-02-X
42003	Allegheny	2265003010	NH3	0.00857	ANNUAL	2002	E-02-X
42003	Allegheny	2265003020	NH3	0.02871	ANNUAL	2002	E-02-X
42003	Allegheny	2265003030	NH3	0.00703	ANNUAL	2002	E-02-X
42003	Allegheny	2265003040	NH3	0.01212	ANNUAL	2002	E-02-X
42003	Allegheny	2265003050	NH3	0.00060	ANNUAL	2002	E-02-X
42003	Allegheny	2265003060	NH3	0.00034	ANNUAL	2002	E-02-X
42003	Allegheny	2265003070	NH3	0.00296	ANNUAL	2002	E-02-X
42003	Allegheny	2265004010	NH3	0.11929	ANNUAL	2002	E-02-X
42003	Allegheny	2265004011	NH3	0.05294	ANNUAL	2002	E-02-X
42003	Allegheny	2265004015	NH3	0.01018	ANNUAL	2002	E-02-X
42003	Allegheny	2265004016	NH3	0.02754	ANNUAL	2002	E-02-X
42003	Allegheny	2265004025	NH3	0.00065	ANNUAL	2002	E-02-X
42003	Allegheny	2265004026	NH3	0.00127	ANNUAL	2002	E-02-X
42003	Allegheny	2265004030	NH3	0.00124	ANNUAL	2002	E-02-X
42003	Allegheny	2265004031	NH3	0.05456	ANNUAL	2002	E-02-X
42003	Allegheny	2265004035	NH3	0.01222	ANNUAL	2002	E-02-X
42003	Allegheny	2265004036	NH3	0.01694	ANNUAL	2002	E-02-X
42003	Allegheny	2265004040	NH3	0.02435	ANNUAL	2002	E-02-X
42003	Allegheny	2265004041	NH3	0.00616	ANNUAL	2002	E-02-X
42003	Allegheny	2265004046	NH3	0.00746	ANNUAL	2002	E-02-X
42003	Allegheny	2265004051	NH3	0.00320	ANNUAL	2002	E-02-X
42003	Allegheny	2265004055	NH3	0.33205	ANNUAL	2002	E-02-X
42003	Allegheny	2265004056	NH3	0.08517	ANNUAL	2002	E-02-X
42003	Allegheny	2265004066	NH3	0.01460	ANNUAL	2002	E-02-X
42003	Allegheny	2265004071	NH3	0.26285	ANNUAL	2002	E-02-X
42003	Allegheny	2265004075	NH3	0.01156	ANNUAL	2002	E-02-X
42003	Allegheny	2265004076	NH3	0.00853	ANNUAL	2002	E-02-X
42003	Allegheny	2265005010	NH3	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2265005015	NH3	0.00003	ANNUAL	2002	E-02-X
42003	Allegheny	2265005020	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2265005025	NH3	0.00002	ANNUAL	2002	E-02-X
42003	Allegheny	2265005030	NH3	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2265005035	NH3	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2265005040	NH3	0.00013	ANNUAL	2002	E-02-X
42003	Allegheny	2265005045	NH3	0.00003	ANNUAL	2002	E-02-X
42003	Allegheny	2265005055	NH3	0.00004	ANNUAL	2002	E-02-X
42003	Allegheny	2265005060	NH3	0.00005	ANNUAL	2002	E-02-X
42003	Allegheny	2265006005	NH3	0.27564	ANNUAL	2002	E-02-X
42003	Allegheny	2265006010	NH3	0.06613	ANNUAL	2002	E-02-X
42003	Allegheny	2265006015	NH3	0.03546	ANNUAL	2002	E-02-X
42003	Allegheny	2265006025	NH3	0.07613	ANNUAL	2002	E-02-X
42003	Allegheny	2265006030	NH3	0.11916	ANNUAL	2002	E-02-X
42003	Allegheny	2265006035	NH3	0.00557	ANNUAL	2002	E-02-X
42003	Allegheny	2265007010	NH3	0.00008	ANNUAL	2002	E-02-X
42003	Allegheny	2265007015	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2265008005	NH3	0.00396	ANNUAL	2002	E-02-X
42003	Allegheny	2265010010	NH3	0.00888	ANNUAL	2002	E-02-X
42003	Allegheny	2267001060	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002003	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002015	NH3	0.00000	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2267002021	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002024	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002030	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002033	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002039	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002045	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002054	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002057	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002060	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002066	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002072	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267002081	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003010	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003020	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003030	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003040	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003050	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003070	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267004066	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267005055	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267005060	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006005	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006010	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006015	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006025	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006030	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006035	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267008005	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268002081	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268003020	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268003030	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268003040	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268003060	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268003070	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268005055	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268005060	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268006005	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268006010	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268006015	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268006020	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268006035	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268010010	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270001060	NH3	0.00063	ANNUAL	2002	E-02-X
42003	Allegheny	2270002003	NH3	0.02398	ANNUAL	2002	E-02-X
42003	Allegheny	2270002006	NH3	0.00010	ANNUAL	2002	E-02-X
42003	Allegheny	2270002009	NH3	0.00065	ANNUAL	2002	E-02-X
42003	Allegheny	2270002015	NH3	0.06003	ANNUAL	2002	E-02-X
42003	Allegheny	2270002018	NH3	0.06526	ANNUAL	2002	E-02-X
42003	Allegheny	2270002021	NH3	0.00361	ANNUAL	2002	E-02-X
42003	Allegheny	2270002024	NH3	0.00223	ANNUAL	2002	E-02-X
42003	Allegheny	2270002027	NH3	0.00664	ANNUAL	2002	E-02-X

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42003	Allegheny	2270002030	NH3	0.02848	ANNUAL	2002	E-02-X
42003	Allegheny	2270002033	NH3	0.02452	ANNUAL	2002	E-02-X
42003	Allegheny	2270002036	NH3	0.24326	ANNUAL	2002	E-02-X
42003	Allegheny	2270002039	NH3	0.00202	ANNUAL	2002	E-02-X
42003	Allegheny	2270002042	NH3	0.00096	ANNUAL	2002	E-02-X
42003	Allegheny	2270002045	NH3	0.05553	ANNUAL	2002	E-02-X
42003	Allegheny	2270002048	NH3	0.06054	ANNUAL	2002	E-02-X
42003	Allegheny	2270002051	NH3	0.20791	ANNUAL	2002	E-02-X
42003	Allegheny	2270002054	NH3	0.00981	ANNUAL	2002	E-02-X
42003	Allegheny	2270002057	NH3	0.07789	ANNUAL	2002	E-02-X
42003	Allegheny	2270002060	NH3	0.26482	ANNUAL	2002	E-02-X
42003	Allegheny	2270002066	NH3	0.16107	ANNUAL	2002	E-02-X
42003	Allegheny	2270002069	NH3	0.24227	ANNUAL	2002	E-02-X
42003	Allegheny	2270002072	NH3	0.11058	ANNUAL	2002	E-02-X
42003	Allegheny	2270002075	NH3	0.02609	ANNUAL	2002	E-02-X
42003	Allegheny	2270002078	NH3	0.00034	ANNUAL	2002	E-02-X
42003	Allegheny	2270002081	NH3	0.02499	ANNUAL	2002	E-02-X
42003	Allegheny	2270003010	NH3	0.00558	ANNUAL	2002	E-02-X
42003	Allegheny	2270003020	NH3	0.08055	ANNUAL	2002	E-02-X
42003	Allegheny	2270003030	NH3	0.03517	ANNUAL	2002	E-02-X
42003	Allegheny	2270003040	NH3	0.03570	ANNUAL	2002	E-02-X
42003	Allegheny	2270003050	NH3	0.00138	ANNUAL	2002	E-02-X
42003	Allegheny	2270003060	NH3	0.14082	ANNUAL	2002	E-02-X
42003	Allegheny	2270003070	NH3	0.05075	ANNUAL	2002	E-02-X
42003	Allegheny	2270004031	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270004036	NH3	0.00083	ANNUAL	2002	E-02-X
42003	Allegheny	2270004046	NH3	0.02208	ANNUAL	2002	E-02-X
42003	Allegheny	2270004056	NH3	0.00456	ANNUAL	2002	E-02-X
42003	Allegheny	2270004066	NH3	0.03004	ANNUAL	2002	E-02-X
42003	Allegheny	2270004071	NH3	0.00354	ANNUAL	2002	E-02-X
42003	Allegheny	2270004076	NH3	0.00008	ANNUAL	2002	E-02-X
42003	Allegheny	2270005010	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270005015	NH3	0.01098	ANNUAL	2002	E-02-X
42003	Allegheny	2270005020	NH3	0.00099	ANNUAL	2002	E-02-X
42003	Allegheny	2270005025	NH3	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2270005030	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270005035	NH3	0.00008	ANNUAL	2002	E-02-X
42003	Allegheny	2270005040	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270005045	NH3	0.00008	ANNUAL	2002	E-02-X
42003	Allegheny	2270005055	NH3	0.00021	ANNUAL	2002	E-02-X
42003	Allegheny	2270005060	NH3	0.00016	ANNUAL	2002	E-02-X
42003	Allegheny	2270006005	NH3	0.11114	ANNUAL	2002	E-02-X
42003	Allegheny	2270006010	NH3	0.02622	ANNUAL	2002	E-02-X
42003	Allegheny	2270006015	NH3	0.07266	ANNUAL	2002	E-02-X
42003	Allegheny	2270006020	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006025	NH3	0.03705	ANNUAL	2002	E-02-X
42003	Allegheny	2270006030	NH3	0.00356	ANNUAL	2002	E-02-X
42003	Allegheny	2270006035	NH3	0.00315	ANNUAL	2002	E-02-X
42003	Allegheny	2270007010	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270007015	NH3	0.00094	ANNUAL	2002	E-02-X
42003	Allegheny	2270008005	NH3	0.09510	ANNUAL	2002	E-02-X

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42003	Allegheny	2270009010	NH3	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270010010	NH3	0.01753	ANNUAL	2002	E-02-X
42003	Allegheny	2282005010	NH3	0.06974	ANNUAL	2002	E-02-X
42003	Allegheny	2282005015	NH3	0.02772	ANNUAL	2002	E-02-X
42003	Allegheny	2282010005	NH3	0.03274	ANNUAL	2002	E-02-X
42003	Allegheny	2282020005	NH3	0.01379	ANNUAL	2002	E-02-X
42003	Allegheny	2282020010	NH3	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2285002015	NH3	0.00290	ANNUAL	2002	E-02-X
42003	Allegheny	2285004015	NH3	0.00028	ANNUAL	2002	E-02-X
42003	Allegheny	2285006015	NH3	0.00000	ANNUAL	2002	E-02-X
			TOTAL NH3	4.65968			
			LIB-CLN NH3	0.07853			
42003	Allegheny	2260001010	NOX	0.18790	ANNUAL	2002	E-02-X
42003	Allegheny	2260001020	NOX	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260001030	NOX	0.18999	ANNUAL	2002	E-02-X
42003	Allegheny	2260001060	NOX	0.28107	ANNUAL	2002	E-02-X
42003	Allegheny	2260002006	NOX	0.37306	ANNUAL	2002	E-02-X
42003	Allegheny	2260002009	NOX	0.00546	ANNUAL	2002	E-02-X
42003	Allegheny	2260002021	NOX	0.00661	ANNUAL	2002	E-02-X
42003	Allegheny	2260002027	NOX	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2260002039	NOX	0.89377	ANNUAL	2002	E-02-X
42003	Allegheny	2260002054	NOX	0.00147	ANNUAL	2002	E-02-X
42003	Allegheny	2260003030	NOX	0.00372	ANNUAL	2002	E-02-X
42003	Allegheny	2260003040	NOX	0.00030	ANNUAL	2002	E-02-X
42003	Allegheny	2260004015	NOX	0.02820	ANNUAL	2002	E-02-X
42003	Allegheny	2260004016	NOX	0.07854	ANNUAL	2002	E-02-X
42003	Allegheny	2260004020	NOX	0.36699	ANNUAL	2002	E-02-X
42003	Allegheny	2260004021	NOX	3.57260	ANNUAL	2002	E-02-X
42003	Allegheny	2260004025	NOX	0.56444	ANNUAL	2002	E-02-X
42003	Allegheny	2260004026	NOX	1.07020	ANNUAL	2002	E-02-X
42003	Allegheny	2260004030	NOX	0.33591	ANNUAL	2002	E-02-X
42003	Allegheny	2260004031	NOX	1.70400	ANNUAL	2002	E-02-X
42003	Allegheny	2260004035	NOX	0.08749	ANNUAL	2002	E-02-X
42003	Allegheny	2260004036	NOX	0.12122	ANNUAL	2002	E-02-X
42003	Allegheny	2260004071	NOX	0.00033	ANNUAL	2002	E-02-X
42003	Allegheny	2260005035	NOX	0.00012	ANNUAL	2002	E-02-X
42003	Allegheny	2260006005	NOX	0.05426	ANNUAL	2002	E-02-X
42003	Allegheny	2260006010	NOX	0.43122	ANNUAL	2002	E-02-X
42003	Allegheny	2260006015	NOX	0.00017	ANNUAL	2002	E-02-X
42003	Allegheny	2260006035	NOX	0.00262	ANNUAL	2002	E-02-X
42003	Allegheny	2260007005	NOX	0.00662	ANNUAL	2002	E-02-X
42003	Allegheny	2265001010	NOX	0.28494	ANNUAL	2002	E-02-X
42003	Allegheny	2265001030	NOX	2.57230	ANNUAL	2002	E-02-X
42003	Allegheny	2265001050	NOX	14.78900	ANNUAL	2002	E-02-X
42003	Allegheny	2265001060	NOX	0.26456	ANNUAL	2002	E-02-X
42003	Allegheny	2265002003	NOX	0.76392	ANNUAL	2002	E-02-X
42003	Allegheny	2265002006	NOX	0.00425	ANNUAL	2002	E-02-X
42003	Allegheny	2265002009	NOX	0.90743	ANNUAL	2002	E-02-X
42003	Allegheny	2265002015	NOX	1.30890	ANNUAL	2002	E-02-X
42003	Allegheny	2265002021	NOX	1.90570	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265002024	NOX	0.79198	ANNUAL	2002	E-02-X
42003	Allegheny	2265002027	NOX	0.03717	ANNUAL	2002	E-02-X
42003	Allegheny	2265002030	NOX	2.30580	ANNUAL	2002	E-02-X
42003	Allegheny	2265002033	NOX	0.72450	ANNUAL	2002	E-02-X
42003	Allegheny	2265002039	NOX	3.92150	ANNUAL	2002	E-02-X
42003	Allegheny	2265002042	NOX	1.48040	ANNUAL	2002	E-02-X
42003	Allegheny	2265002045	NOX	0.37959	ANNUAL	2002	E-02-X
42003	Allegheny	2265002054	NOX	0.25632	ANNUAL	2002	E-02-X
42003	Allegheny	2265002057	NOX	0.65420	ANNUAL	2002	E-02-X
42003	Allegheny	2265002060	NOX	1.61870	ANNUAL	2002	E-02-X
42003	Allegheny	2265002066	NOX	1.22980	ANNUAL	2002	E-02-X
42003	Allegheny	2265002072	NOX	1.72600	ANNUAL	2002	E-02-X
42003	Allegheny	2265002078	NOX	0.24245	ANNUAL	2002	E-02-X
42003	Allegheny	2265002081	NOX	0.56487	ANNUAL	2002	E-02-X
42003	Allegheny	2265003010	NOX	6.40150	ANNUAL	2002	E-02-X
42003	Allegheny	2265003020	NOX	27.02400	ANNUAL	2002	E-02-X
42003	Allegheny	2265003030	NOX	4.81230	ANNUAL	2002	E-02-X
42003	Allegheny	2265003040	NOX	4.25040	ANNUAL	2002	E-02-X
42003	Allegheny	2265003050	NOX	0.42438	ANNUAL	2002	E-02-X
42003	Allegheny	2265003060	NOX	0.10774	ANNUAL	2002	E-02-X
42003	Allegheny	2265003070	NOX	2.79100	ANNUAL	2002	E-02-X
42003	Allegheny	2265004010	NOX	26.58500	ANNUAL	2002	E-02-X
42003	Allegheny	2265004011	NOX	12.95400	ANNUAL	2002	E-02-X
42003	Allegheny	2265004015	NOX	2.25600	ANNUAL	2002	E-02-X
42003	Allegheny	2265004016	NOX	6.52980	ANNUAL	2002	E-02-X
42003	Allegheny	2265004025	NOX	0.15276	ANNUAL	2002	E-02-X
42003	Allegheny	2265004026	NOX	0.33585	ANNUAL	2002	E-02-X
42003	Allegheny	2265004030	NOX	0.29315	ANNUAL	2002	E-02-X
42003	Allegheny	2265004031	NOX	22.17000	ANNUAL	2002	E-02-X
42003	Allegheny	2265004035	NOX	3.27560	ANNUAL	2002	E-02-X
42003	Allegheny	2265004036	NOX	4.53810	ANNUAL	2002	E-02-X
42003	Allegheny	2265004040	NOX	6.93450	ANNUAL	2002	E-02-X
42003	Allegheny	2265004041	NOX	1.79690	ANNUAL	2002	E-02-X
42003	Allegheny	2265004046	NOX	1.89590	ANNUAL	2002	E-02-X
42003	Allegheny	2265004051	NOX	0.74271	ANNUAL	2002	E-02-X
42003	Allegheny	2265004055	NOX	95.27400	ANNUAL	2002	E-02-X
42003	Allegheny	2265004056	NOX	25.09900	ANNUAL	2002	E-02-X
42003	Allegheny	2265004066	NOX	8.02100	ANNUAL	2002	E-02-X
42003	Allegheny	2265004071	NOX	87.90000	ANNUAL	2002	E-02-X
42003	Allegheny	2265004075	NOX	2.61250	ANNUAL	2002	E-02-X
42003	Allegheny	2265004076	NOX	1.95060	ANNUAL	2002	E-02-X
42003	Allegheny	2265005010	NOX	0.00200	ANNUAL	2002	E-02-X
42003	Allegheny	2265005015	NOX	0.02223	ANNUAL	2002	E-02-X
42003	Allegheny	2265005020	NOX	0.00017	ANNUAL	2002	E-02-X
42003	Allegheny	2265005025	NOX	0.01580	ANNUAL	2002	E-02-X
42003	Allegheny	2265005030	NOX	0.00163	ANNUAL	2002	E-02-X
42003	Allegheny	2265005035	NOX	0.02571	ANNUAL	2002	E-02-X
42003	Allegheny	2265005040	NOX	0.02464	ANNUAL	2002	E-02-X
42003	Allegheny	2265005045	NOX	0.02503	ANNUAL	2002	E-02-X
42003	Allegheny	2265005055	NOX	0.02992	ANNUAL	2002	E-02-X
42003	Allegheny	2265005060	NOX	0.04355	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265006005	NOX	79.84600	ANNUAL	2002	E-02-X
42003	Allegheny	2265006010	NOX	24.16500	ANNUAL	2002	E-02-X
42003	Allegheny	2265006015	NOX	16.65200	ANNUAL	2002	E-02-X
42003	Allegheny	2265006025	NOX	30.06600	ANNUAL	2002	E-02-X
42003	Allegheny	2265006030	NOX	35.22400	ANNUAL	2002	E-02-X
42003	Allegheny	2265006035	NOX	1.75570	ANNUAL	2002	E-02-X
42003	Allegheny	2265007010	NOX	0.02156	ANNUAL	2002	E-02-X
42003	Allegheny	2265007015	NOX	0.00024	ANNUAL	2002	E-02-X
42003	Allegheny	2265008005	NOX	3.02860	ANNUAL	2002	E-02-X
42003	Allegheny	2265010010	NOX	2.52380	ANNUAL	2002	E-02-X
42003	Allegheny	2267001060	NOX	0.09337	ANNUAL	2002	E-02-X
42003	Allegheny	2267002003	NOX	0.41910	ANNUAL	2002	E-02-X
42003	Allegheny	2267002015	NOX	0.70603	ANNUAL	2002	E-02-X
42003	Allegheny	2267002021	NOX	0.11051	ANNUAL	2002	E-02-X
42003	Allegheny	2267002024	NOX	0.07213	ANNUAL	2002	E-02-X
42003	Allegheny	2267002030	NOX	1.28280	ANNUAL	2002	E-02-X
42003	Allegheny	2267002033	NOX	0.42217	ANNUAL	2002	E-02-X
42003	Allegheny	2267002039	NOX	1.22280	ANNUAL	2002	E-02-X
42003	Allegheny	2267002045	NOX	0.45163	ANNUAL	2002	E-02-X
42003	Allegheny	2267002054	NOX	0.07518	ANNUAL	2002	E-02-X
42003	Allegheny	2267002057	NOX	0.81559	ANNUAL	2002	E-02-X
42003	Allegheny	2267002060	NOX	2.02930	ANNUAL	2002	E-02-X
42003	Allegheny	2267002066	NOX	0.21559	ANNUAL	2002	E-02-X
42003	Allegheny	2267002072	NOX	1.67670	ANNUAL	2002	E-02-X
42003	Allegheny	2267002081	NOX	0.67421	ANNUAL	2002	E-02-X
42003	Allegheny	2267003010	NOX	8.75000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003020	NOX	824.72000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003030	NOX	6.29330	ANNUAL	2002	E-02-X
42003	Allegheny	2267003040	NOX	1.92470	ANNUAL	2002	E-02-X
42003	Allegheny	2267003050	NOX	0.47259	ANNUAL	2002	E-02-X
42003	Allegheny	2267003070	NOX	3.84320	ANNUAL	2002	E-02-X
42003	Allegheny	2267004066	NOX	7.00640	ANNUAL	2002	E-02-X
42003	Allegheny	2267005055	NOX	0.00046	ANNUAL	2002	E-02-X
42003	Allegheny	2267005060	NOX	0.00039	ANNUAL	2002	E-02-X
42003	Allegheny	2267006005	NOX	39.47400	ANNUAL	2002	E-02-X
42003	Allegheny	2267006010	NOX	9.19260	ANNUAL	2002	E-02-X
42003	Allegheny	2267006015	NOX	11.08200	ANNUAL	2002	E-02-X
42003	Allegheny	2267006025	NOX	13.81700	ANNUAL	2002	E-02-X
42003	Allegheny	2267006030	NOX	0.18156	ANNUAL	2002	E-02-X
42003	Allegheny	2267006035	NOX	0.17209	ANNUAL	2002	E-02-X
42003	Allegheny	2267008005	NOX	3.80560	ANNUAL	2002	E-02-X
42003	Allegheny	2268002081	NOX	0.02660	ANNUAL	2002	E-02-X
42003	Allegheny	2268003020	NOX	60.04600	ANNUAL	2002	E-02-X
42003	Allegheny	2268003030	NOX	0.07176	ANNUAL	2002	E-02-X
42003	Allegheny	2268003040	NOX	0.04691	ANNUAL	2002	E-02-X
42003	Allegheny	2268003060	NOX	0.16017	ANNUAL	2002	E-02-X
42003	Allegheny	2268003070	NOX	0.27053	ANNUAL	2002	E-02-X
42003	Allegheny	2268005055	NOX	0.00056	ANNUAL	2002	E-02-X
42003	Allegheny	2268005060	NOX	0.04373	ANNUAL	2002	E-02-X
42003	Allegheny	2268006005	NOX	12.93800	ANNUAL	2002	E-02-X
42003	Allegheny	2268006010	NOX	0.64876	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2268006015	NOX	0.92800	ANNUAL	2002	E-02-X
42003	Allegheny	2268006020	NOX	34.27000	ANNUAL	2002	E-02-X
42003	Allegheny	2268006035	NOX	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268010010	NOX	10.91700	ANNUAL	2002	E-02-X
42003	Allegheny	2270001060	NOX	0.96557	ANNUAL	2002	E-02-X
42003	Allegheny	2270002003	NOX	33.82500	ANNUAL	2002	E-02-X
42003	Allegheny	2270002006	NOX	0.07434	ANNUAL	2002	E-02-X
42003	Allegheny	2270002009	NOX	1.15960	ANNUAL	2002	E-02-X
42003	Allegheny	2270002015	NOX	83.92500	ANNUAL	2002	E-02-X
42003	Allegheny	2270002018	NOX	97.16600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002021	NOX	5.34900	ANNUAL	2002	E-02-X
42003	Allegheny	2270002024	NOX	3.60420	ANNUAL	2002	E-02-X
42003	Allegheny	2270002027	NOX	10.13500	ANNUAL	2002	E-02-X
42003	Allegheny	2270002030	NOX	39.04100	ANNUAL	2002	E-02-X
42003	Allegheny	2270002033	NOX	46.35000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002036	NOX	335.46000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002039	NOX	2.62500	ANNUAL	2002	E-02-X
42003	Allegheny	2270002042	NOX	1.74140	ANNUAL	2002	E-02-X
42003	Allegheny	2270002045	NOX	91.35600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002048	NOX	85.23600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002051	NOX	316.40000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002054	NOX	16.04000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002057	NOX	107.23000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002060	NOX	410.78000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002066	NOX	249.57000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002069	NOX	360.94000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002072	NOX	160.01000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002075	NOX	43.56600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002078	NOX	0.51502	ANNUAL	2002	E-02-X
42003	Allegheny	2270002081	NOX	42.30600	ANNUAL	2002	E-02-X
42003	Allegheny	2270003010	NOX	9.09780	ANNUAL	2002	E-02-X
42003	Allegheny	2270003020	NOX	96.00900	ANNUAL	2002	E-02-X
42003	Allegheny	2270003030	NOX	50.90100	ANNUAL	2002	E-02-X
42003	Allegheny	2270003040	NOX	57.97100	ANNUAL	2002	E-02-X
42003	Allegheny	2270003050	NOX	2.68130	ANNUAL	2002	E-02-X
42003	Allegheny	2270003060	NOX	180.64000	ANNUAL	2002	E-02-X
42003	Allegheny	2270003070	NOX	65.68700	ANNUAL	2002	E-02-X
42003	Allegheny	2270004031	NOX	0.00520	ANNUAL	2002	E-02-X
42003	Allegheny	2270004036	NOX	1.39460	ANNUAL	2002	E-02-X
42003	Allegheny	2270004046	NOX	31.91500	ANNUAL	2002	E-02-X
42003	Allegheny	2270004056	NOX	7.04310	ANNUAL	2002	E-02-X
42003	Allegheny	2270004066	NOX	47.68700	ANNUAL	2002	E-02-X
42003	Allegheny	2270004071	NOX	4.80920	ANNUAL	2002	E-02-X
42003	Allegheny	2270004076	NOX	0.12516	ANNUAL	2002	E-02-X
42003	Allegheny	2270005010	NOX	0.00042	ANNUAL	2002	E-02-X
42003	Allegheny	2270005015	NOX	18.16800	ANNUAL	2002	E-02-X
42003	Allegheny	2270005020	NOX	1.84200	ANNUAL	2002	E-02-X
42003	Allegheny	2270005025	NOX	0.00790	ANNUAL	2002	E-02-X
42003	Allegheny	2270005030	NOX	0.00168	ANNUAL	2002	E-02-X
42003	Allegheny	2270005035	NOX	0.13054	ANNUAL	2002	E-02-X
42003	Allegheny	2270005040	NOX	0.00021	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270005045	NOX	0.12898	ANNUAL	2002	E-02-X
42003	Allegheny	2270005055	NOX	0.37951	ANNUAL	2002	E-02-X
42003	Allegheny	2270005060	NOX	0.23803	ANNUAL	2002	E-02-X
42003	Allegheny	2270006005	NOX	171.86000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006010	NOX	40.91500	ANNUAL	2002	E-02-X
42003	Allegheny	2270006015	NOX	103.27000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006020	NOX	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006025	NOX	50.00400	ANNUAL	2002	E-02-X
42003	Allegheny	2270006030	NOX	5.74120	ANNUAL	2002	E-02-X
42003	Allegheny	2270006035	NOX	4.46710	ANNUAL	2002	E-02-X
42003	Allegheny	2270007010	NOX	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270007015	NOX	1.25820	ANNUAL	2002	E-02-X
42003	Allegheny	2270008005	NOX	147.08000	ANNUAL	2002	E-02-X
42003	Allegheny	2270009010	NOX	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270010010	NOX	29.54000	ANNUAL	2002	E-02-X
42003	Allegheny	2275001000	NOx	121.82368	ANNUAL	2002	S-02-X
42003	Allegheny	2275020000	NOX	1124.30000	ANNUAL	2002	E-02-X
42003	Allegheny	2275050000	NOx	92.84214	ANNUAL	2002	S-02-X
42003	Allegheny	2275060000	NOx	129.90965	ANNUAL	2002	S-02-X
42003	Allegheny	2275070000	NOx	33.23700	ANNUAL	2002	S-02-X
42003	Allegheny	2280002000	NOx	3147.55794	ANNUAL	2002	S-02-X
42003	Allegheny	2282005010	NOX	7.68510	ANNUAL	2002	E-02-X
42003	Allegheny	2282005015	NOX	2.15150	ANNUAL	2002	E-02-X
42003	Allegheny	2282010005	NOX	17.74300	ANNUAL	2002	E-02-X
42003	Allegheny	2282020005	NOX	21.58500	ANNUAL	2002	E-02-X
42003	Allegheny	2282020010	NOX	0.08128	ANNUAL	2002	E-02-X
42003	Allegheny	2285002006	NOx	2585.04320	ANNUAL	2002	S-02-X
42003	Allegheny	2285002007	NOx	774.62183	ANNUAL	2002	S-02-X
42003	Allegheny	2285002008	NOx	63.86608	ANNUAL	2002	S-02-X
42003	Allegheny	2285002010	NOx	44.38919	ANNUAL	2002	S-02-X
42003	Allegheny	2285002015	NOX	4.95770	ANNUAL	2002	E-02-X
42003	Allegheny	2285004015	NOX	0.09432	ANNUAL	2002	E-02-X
42003	Allegheny	2285006015	NOX	0.01225	ANNUAL	2002	E-02-X
			TOTAL NOx	13509.34602			
			LIB-CLN NOx	227.67301			
42003	Allegheny	2260001010	PM10-PRI	2.76000	ANNUAL	2002	E-02-X
42003	Allegheny	2260001020	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260001030	PM10-PRI	2.72060	ANNUAL	2002	E-02-X
42003	Allegheny	2260001060	PM10-PRI	0.01125	ANNUAL	2002	E-02-X
42003	Allegheny	2260002006	PM10-PRI	1.82140	ANNUAL	2002	E-02-X
42003	Allegheny	2260002009	PM10-PRI	0.07840	ANNUAL	2002	E-02-X
42003	Allegheny	2260002021	PM10-PRI	0.09432	ANNUAL	2002	E-02-X
42003	Allegheny	2260002027	PM10-PRI	0.00071	ANNUAL	2002	E-02-X
42003	Allegheny	2260002039	PM10-PRI	4.80700	ANNUAL	2002	E-02-X
42003	Allegheny	2260002054	PM10-PRI	0.01886	ANNUAL	2002	E-02-X
42003	Allegheny	2260003030	PM10-PRI	0.04556	ANNUAL	2002	E-02-X
42003	Allegheny	2260003040	PM10-PRI	0.00363	ANNUAL	2002	E-02-X
42003	Allegheny	2260004015	PM10-PRI	0.39732	ANNUAL	2002	E-02-X
42003	Allegheny	2260004016	PM10-PRI	1.15210	ANNUAL	2002	E-02-X
42003	Allegheny	2260004020	PM10-PRI	5.53670	ANNUAL	2002	E-02-X

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42003	Allegheny	2260004021	PM10-PRI	19.94200	ANNUAL	2002	E-02-X
42003	Allegheny	2260004025	PM10-PRI	7.57970	ANNUAL	2002	E-02-X
42003	Allegheny	2260004026	PM10-PRI	11.96800	ANNUAL	2002	E-02-X
42003	Allegheny	2260004030	PM10-PRI	4.94570	ANNUAL	2002	E-02-X
42003	Allegheny	2260004031	PM10-PRI	12.82200	ANNUAL	2002	E-02-X
42003	Allegheny	2260004035	PM10-PRI	2.53580	ANNUAL	2002	E-02-X
42003	Allegheny	2260004036	PM10-PRI	3.51300	ANNUAL	2002	E-02-X
42003	Allegheny	2260004071	PM10-PRI	0.00494	ANNUAL	2002	E-02-X
42003	Allegheny	2260005035	PM10-PRI	0.00166	ANNUAL	2002	E-02-X
42003	Allegheny	2260006005	PM10-PRI	0.77898	ANNUAL	2002	E-02-X
42003	Allegheny	2260006010	PM10-PRI	5.44850	ANNUAL	2002	E-02-X
42003	Allegheny	2260006015	PM10-PRI	0.00211	ANNUAL	2002	E-02-X
42003	Allegheny	2260006035	PM10-PRI	0.03274	ANNUAL	2002	E-02-X
42003	Allegheny	2260007005	PM10-PRI	0.03399	ANNUAL	2002	E-02-X
42003	Allegheny	2265001010	PM10-PRI	0.03885	ANNUAL	2002	E-02-X
42003	Allegheny	2265001030	PM10-PRI	0.35031	ANNUAL	2002	E-02-X
42003	Allegheny	2265001050	PM10-PRI	0.52879	ANNUAL	2002	E-02-X
42003	Allegheny	2265001060	PM10-PRI	0.00876	ANNUAL	2002	E-02-X
42003	Allegheny	2265002003	PM10-PRI	0.01634	ANNUAL	2002	E-02-X
42003	Allegheny	2265002006	PM10-PRI	0.00012	ANNUAL	2002	E-02-X
42003	Allegheny	2265002009	PM10-PRI	0.04607	ANNUAL	2002	E-02-X
42003	Allegheny	2265002015	PM10-PRI	0.02817	ANNUAL	2002	E-02-X
42003	Allegheny	2265002021	PM10-PRI	0.06943	ANNUAL	2002	E-02-X
42003	Allegheny	2265002024	PM10-PRI	0.02912	ANNUAL	2002	E-02-X
42003	Allegheny	2265002027	PM10-PRI	0.00176	ANNUAL	2002	E-02-X
42003	Allegheny	2265002030	PM10-PRI	0.05799	ANNUAL	2002	E-02-X
42003	Allegheny	2265002033	PM10-PRI	0.02548	ANNUAL	2002	E-02-X
42003	Allegheny	2265002039	PM10-PRI	0.10667	ANNUAL	2002	E-02-X
42003	Allegheny	2265002042	PM10-PRI	0.06414	ANNUAL	2002	E-02-X
42003	Allegheny	2265002045	PM10-PRI	0.00295	ANNUAL	2002	E-02-X
42003	Allegheny	2265002054	PM10-PRI	0.00786	ANNUAL	2002	E-02-X
42003	Allegheny	2265002057	PM10-PRI	0.00438	ANNUAL	2002	E-02-X
42003	Allegheny	2265002060	PM10-PRI	0.01068	ANNUAL	2002	E-02-X
42003	Allegheny	2265002066	PM10-PRI	0.03460	ANNUAL	2002	E-02-X
42003	Allegheny	2265002072	PM10-PRI	0.02027	ANNUAL	2002	E-02-X
42003	Allegheny	2265002078	PM10-PRI	0.00855	ANNUAL	2002	E-02-X
42003	Allegheny	2265002081	PM10-PRI	0.00373	ANNUAL	2002	E-02-X
42003	Allegheny	2265003010	PM10-PRI	0.06137	ANNUAL	2002	E-02-X
42003	Allegheny	2265003020	PM10-PRI	0.17739	ANNUAL	2002	E-02-X
42003	Allegheny	2265003030	PM10-PRI	0.05673	ANNUAL	2002	E-02-X
42003	Allegheny	2265003040	PM10-PRI	0.16855	ANNUAL	2002	E-02-X
42003	Allegheny	2265003050	PM10-PRI	0.00449	ANNUAL	2002	E-02-X
42003	Allegheny	2265003060	PM10-PRI	0.00322	ANNUAL	2002	E-02-X
42003	Allegheny	2265003070	PM10-PRI	0.01840	ANNUAL	2002	E-02-X
42003	Allegheny	2265004010	PM10-PRI	2.00590	ANNUAL	2002	E-02-X
42003	Allegheny	2265004011	PM10-PRI	0.95236	ANNUAL	2002	E-02-X
42003	Allegheny	2265004015	PM10-PRI	0.14986	ANNUAL	2002	E-02-X
42003	Allegheny	2265004016	PM10-PRI	0.52218	ANNUAL	2002	E-02-X
42003	Allegheny	2265004025	PM10-PRI	0.01048	ANNUAL	2002	E-02-X
42003	Allegheny	2265004026	PM10-PRI	0.01811	ANNUAL	2002	E-02-X
42003	Allegheny	2265004030	PM10-PRI	0.02061	ANNUAL	2002	E-02-X

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42003	Allegheny	2265004031	PM10-PRI	0.49211	ANNUAL	2002	E-02-X
42003	Allegheny	2265004035	PM10-PRI	0.07731	ANNUAL	2002	E-02-X
42003	Allegheny	2265004036	PM10-PRI	0.10710	ANNUAL	2002	E-02-X
42003	Allegheny	2265004040	PM10-PRI	0.20715	ANNUAL	2002	E-02-X
42003	Allegheny	2265004041	PM10-PRI	0.05635	ANNUAL	2002	E-02-X
42003	Allegheny	2265004046	PM10-PRI	0.06436	ANNUAL	2002	E-02-X
42003	Allegheny	2265004051	PM10-PRI	0.06596	ANNUAL	2002	E-02-X
42003	Allegheny	2265004055	PM10-PRI	2.87090	ANNUAL	2002	E-02-X
42003	Allegheny	2265004056	PM10-PRI	0.79040	ANNUAL	2002	E-02-X
42003	Allegheny	2265004066	PM10-PRI	0.11643	ANNUAL	2002	E-02-X
42003	Allegheny	2265004071	PM10-PRI	2.56980	ANNUAL	2002	E-02-X
42003	Allegheny	2265004075	PM10-PRI	0.18334	ANNUAL	2002	E-02-X
42003	Allegheny	2265004076	PM10-PRI	0.13495	ANNUAL	2002	E-02-X
42003	Allegheny	2265005010	PM10-PRI	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2265005015	PM10-PRI	0.00019	ANNUAL	2002	E-02-X
42003	Allegheny	2265005020	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2265005025	PM10-PRI	0.00011	ANNUAL	2002	E-02-X
42003	Allegheny	2265005030	PM10-PRI	0.00005	ANNUAL	2002	E-02-X
42003	Allegheny	2265005035	PM10-PRI	0.00063	ANNUAL	2002	E-02-X
42003	Allegheny	2265005040	PM10-PRI	0.00084	ANNUAL	2002	E-02-X
42003	Allegheny	2265005045	PM10-PRI	0.00017	ANNUAL	2002	E-02-X
42003	Allegheny	2265005055	PM10-PRI	0.00028	ANNUAL	2002	E-02-X
42003	Allegheny	2265005060	PM10-PRI	0.00033	ANNUAL	2002	E-02-X
42003	Allegheny	2265006005	PM10-PRI	2.55900	ANNUAL	2002	E-02-X
42003	Allegheny	2265006010	PM10-PRI	0.85118	ANNUAL	2002	E-02-X
42003	Allegheny	2265006015	PM10-PRI	0.38038	ANNUAL	2002	E-02-X
42003	Allegheny	2265006025	PM10-PRI	0.68925	ANNUAL	2002	E-02-X
42003	Allegheny	2265006030	PM10-PRI	1.46590	ANNUAL	2002	E-02-X
42003	Allegheny	2265006035	PM10-PRI	0.05965	ANNUAL	2002	E-02-X
42003	Allegheny	2265007010	PM10-PRI	0.00071	ANNUAL	2002	E-02-X
42003	Allegheny	2265007015	PM10-PRI	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2265008005	PM10-PRI	0.03237	ANNUAL	2002	E-02-X
42003	Allegheny	2265010010	PM10-PRI	0.08667	ANNUAL	2002	E-02-X
42003	Allegheny	2267001060	PM10-PRI	0.00044	ANNUAL	2002	E-02-X
42003	Allegheny	2267002003	PM10-PRI	0.00198	ANNUAL	2002	E-02-X
42003	Allegheny	2267002015	PM10-PRI	0.00335	ANNUAL	2002	E-02-X
42003	Allegheny	2267002021	PM10-PRI	0.00052	ANNUAL	2002	E-02-X
42003	Allegheny	2267002024	PM10-PRI	0.00034	ANNUAL	2002	E-02-X
42003	Allegheny	2267002030	PM10-PRI	0.00605	ANNUAL	2002	E-02-X
42003	Allegheny	2267002033	PM10-PRI	0.00196	ANNUAL	2002	E-02-X
42003	Allegheny	2267002039	PM10-PRI	0.00586	ANNUAL	2002	E-02-X
42003	Allegheny	2267002045	PM10-PRI	0.00211	ANNUAL	2002	E-02-X
42003	Allegheny	2267002054	PM10-PRI	0.00035	ANNUAL	2002	E-02-X
42003	Allegheny	2267002057	PM10-PRI	0.00383	ANNUAL	2002	E-02-X
42003	Allegheny	2267002060	PM10-PRI	0.00959	ANNUAL	2002	E-02-X
42003	Allegheny	2267002066	PM10-PRI	0.00102	ANNUAL	2002	E-02-X
42003	Allegheny	2267002072	PM10-PRI	0.00786	ANNUAL	2002	E-02-X
42003	Allegheny	2267002081	PM10-PRI	0.00315	ANNUAL	2002	E-02-X
42003	Allegheny	2267003010	PM10-PRI	0.04076	ANNUAL	2002	E-02-X
42003	Allegheny	2267003020	PM10-PRI	3.88910	ANNUAL	2002	E-02-X
42003	Allegheny	2267003030	PM10-PRI	0.02995	ANNUAL	2002	E-02-X

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42003	Allegheny	2267003040	PM10-PRI	0.00910	ANNUAL	2002	E-02-X
42003	Allegheny	2267003050	PM10-PRI	0.00220	ANNUAL	2002	E-02-X
42003	Allegheny	2267003070	PM10-PRI	0.01834	ANNUAL	2002	E-02-X
42003	Allegheny	2267004066	PM10-PRI	0.03314	ANNUAL	2002	E-02-X
42003	Allegheny	2267005055	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267005060	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006005	PM10-PRI	0.18022	ANNUAL	2002	E-02-X
42003	Allegheny	2267006010	PM10-PRI	0.04250	ANNUAL	2002	E-02-X
42003	Allegheny	2267006015	PM10-PRI	0.05168	ANNUAL	2002	E-02-X
42003	Allegheny	2267006025	PM10-PRI	0.06435	ANNUAL	2002	E-02-X
42003	Allegheny	2267006030	PM10-PRI	0.00084	ANNUAL	2002	E-02-X
42003	Allegheny	2267006035	PM10-PRI	0.00081	ANNUAL	2002	E-02-X
42003	Allegheny	2267008005	PM10-PRI	0.01791	ANNUAL	2002	E-02-X
42003	Allegheny	2268002081	PM10-PRI	0.00012	ANNUAL	2002	E-02-X
42003	Allegheny	2268003020	PM10-PRI	0.28350	ANNUAL	2002	E-02-X
42003	Allegheny	2268003030	PM10-PRI	0.00034	ANNUAL	2002	E-02-X
42003	Allegheny	2268003040	PM10-PRI	0.00022	ANNUAL	2002	E-02-X
42003	Allegheny	2268003060	PM10-PRI	0.00076	ANNUAL	2002	E-02-X
42003	Allegheny	2268003070	PM10-PRI	0.00129	ANNUAL	2002	E-02-X
42003	Allegheny	2268005055	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268005060	PM10-PRI	0.00022	ANNUAL	2002	E-02-X
42003	Allegheny	2268006005	PM10-PRI	0.05964	ANNUAL	2002	E-02-X
42003	Allegheny	2268006010	PM10-PRI	0.00301	ANNUAL	2002	E-02-X
42003	Allegheny	2268006015	PM10-PRI	0.00435	ANNUAL	2002	E-02-X
42003	Allegheny	2268006020	PM10-PRI	0.17482	ANNUAL	2002	E-02-X
42003	Allegheny	2268006035	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268010010	PM10-PRI	0.05355	ANNUAL	2002	E-02-X
42003	Allegheny	2270001060	PM10-PRI	0.17274	ANNUAL	2002	E-02-X
42003	Allegheny	2270002003	PM10-PRI	3.16860	ANNUAL	2002	E-02-X
42003	Allegheny	2270002006	PM10-PRI	0.00874	ANNUAL	2002	E-02-X
42003	Allegheny	2270002009	PM10-PRI	0.14207	ANNUAL	2002	E-02-X
42003	Allegheny	2270002015	PM10-PRI	8.87090	ANNUAL	2002	E-02-X
42003	Allegheny	2270002018	PM10-PRI	7.12430	ANNUAL	2002	E-02-X
42003	Allegheny	2270002021	PM10-PRI	0.55954	ANNUAL	2002	E-02-X
42003	Allegheny	2270002024	PM10-PRI	0.39516	ANNUAL	2002	E-02-X
42003	Allegheny	2270002027	PM10-PRI	1.25090	ANNUAL	2002	E-02-X
42003	Allegheny	2270002030	PM10-PRI	5.19570	ANNUAL	2002	E-02-X
42003	Allegheny	2270002033	PM10-PRI	3.66360	ANNUAL	2002	E-02-X
42003	Allegheny	2270002036	PM10-PRI	26.55000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002039	PM10-PRI	0.39702	ANNUAL	2002	E-02-X
42003	Allegheny	2270002042	PM10-PRI	0.16059	ANNUAL	2002	E-02-X
42003	Allegheny	2270002045	PM10-PRI	5.79950	ANNUAL	2002	E-02-X
42003	Allegheny	2270002048	PM10-PRI	6.33840	ANNUAL	2002	E-02-X
42003	Allegheny	2270002051	PM10-PRI	20.96300	ANNUAL	2002	E-02-X
42003	Allegheny	2270002054	PM10-PRI	1.21170	ANNUAL	2002	E-02-X
42003	Allegheny	2270002057	PM10-PRI	13.28400	ANNUAL	2002	E-02-X
42003	Allegheny	2270002060	PM10-PRI	33.33400	ANNUAL	2002	E-02-X
42003	Allegheny	2270002066	PM10-PRI	39.37400	ANNUAL	2002	E-02-X
42003	Allegheny	2270002069	PM10-PRI	27.46800	ANNUAL	2002	E-02-X
42003	Allegheny	2270002072	PM10-PRI	33.83400	ANNUAL	2002	E-02-X
42003	Allegheny	2270002075	PM10-PRI	3.59670	ANNUAL	2002	E-02-X

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42003	Allegheny	2270002078	PM10-PRI	0.10476	ANNUAL	2002	E-02-X
42003	Allegheny	2270002081	PM10-PRI	3.76910	ANNUAL	2002	E-02-X
42003	Allegheny	2270003010	PM10-PRI	1.62290	ANNUAL	2002	E-02-X
42003	Allegheny	2270003020	PM10-PRI	11.00500	ANNUAL	2002	E-02-X
42003	Allegheny	2270003030	PM10-PRI	4.00680	ANNUAL	2002	E-02-X
42003	Allegheny	2270003040	PM10-PRI	4.33250	ANNUAL	2002	E-02-X
42003	Allegheny	2270003050	PM10-PRI	0.34280	ANNUAL	2002	E-02-X
42003	Allegheny	2270003060	PM10-PRI	20.96600	ANNUAL	2002	E-02-X
42003	Allegheny	2270003070	PM10-PRI	5.39390	ANNUAL	2002	E-02-X
42003	Allegheny	2270004031	PM10-PRI	0.00058	ANNUAL	2002	E-02-X
42003	Allegheny	2270004036	PM10-PRI	0.10683	ANNUAL	2002	E-02-X
42003	Allegheny	2270004046	PM10-PRI	3.98200	ANNUAL	2002	E-02-X
42003	Allegheny	2270004056	PM10-PRI	0.86036	ANNUAL	2002	E-02-X
42003	Allegheny	2270004066	PM10-PRI	4.48530	ANNUAL	2002	E-02-X
42003	Allegheny	2270004071	PM10-PRI	0.48096	ANNUAL	2002	E-02-X
42003	Allegheny	2270004076	PM10-PRI	0.01525	ANNUAL	2002	E-02-X
42003	Allegheny	2270005010	PM10-PRI	0.00007	ANNUAL	2002	E-02-X
42003	Allegheny	2270005015	PM10-PRI	2.22530	ANNUAL	2002	E-02-X
42003	Allegheny	2270005020	PM10-PRI	0.23476	ANNUAL	2002	E-02-X
42003	Allegheny	2270005025	PM10-PRI	0.00135	ANNUAL	2002	E-02-X
42003	Allegheny	2270005030	PM10-PRI	0.00029	ANNUAL	2002	E-02-X
42003	Allegheny	2270005035	PM10-PRI	0.01874	ANNUAL	2002	E-02-X
42003	Allegheny	2270005040	PM10-PRI	0.00002	ANNUAL	2002	E-02-X
42003	Allegheny	2270005045	PM10-PRI	0.01949	ANNUAL	2002	E-02-X
42003	Allegheny	2270005055	PM10-PRI	0.05279	ANNUAL	2002	E-02-X
42003	Allegheny	2270005060	PM10-PRI	0.02498	ANNUAL	2002	E-02-X
42003	Allegheny	2270006005	PM10-PRI	18.88300	ANNUAL	2002	E-02-X
42003	Allegheny	2270006010	PM10-PRI	4.57910	ANNUAL	2002	E-02-X
42003	Allegheny	2270006015	PM10-PRI	10.88200	ANNUAL	2002	E-02-X
42003	Allegheny	2270006020	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006025	PM10-PRI	11.28400	ANNUAL	2002	E-02-X
42003	Allegheny	2270006030	PM10-PRI	0.52953	ANNUAL	2002	E-02-X
42003	Allegheny	2270006035	PM10-PRI	0.48371	ANNUAL	2002	E-02-X
42003	Allegheny	2270007010	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270007015	PM10-PRI	0.09433	ANNUAL	2002	E-02-X
42003	Allegheny	2270008005	PM10-PRI	12.10700	ANNUAL	2002	E-02-X
42003	Allegheny	2270009010	PM10-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270010010	PM10-PRI	1.93620	ANNUAL	2002	E-02-X
42003	Allegheny	2275001000	PM10-PRI	465.24463	ANNUAL	2002	P-02-X
42003	Allegheny	2275020000	PM10-PRI	65.20940	ANNUAL	2002	P-02-X
42003	Allegheny	2275050000	PM10-PRI	0.00000	ANNUAL	2002	S-02-X
42003	Allegheny	2275060000	PM10-PRI	496.12495	ANNUAL	2002	P-02-X
42003	Allegheny	2275070000	PM10-PRI	0.00000	ANNUAL	2002	S-02-X
42003	Allegheny	2280002000	PM10-PRI	108.51446	ANNUAL	2002	S-02-X
42003	Allegheny	2282005010	PM10-PRI	8.10200	ANNUAL	2002	E-02-X
42003	Allegheny	2282005015	PM10-PRI	3.23000	ANNUAL	2002	E-02-X
42003	Allegheny	2282010005	PM10-PRI	0.18546	ANNUAL	2002	E-02-X
42003	Allegheny	2282020005	PM10-PRI	0.60701	ANNUAL	2002	E-02-X
42003	Allegheny	2282020010	PM10-PRI	0.01084	ANNUAL	2002	E-02-X
42003	Allegheny	2285002006	PM10-PRI	70.65230	ANNUAL	2002	S-02-X
42003	Allegheny	2285002007	PM10-PRI	19.04349	ANNUAL	2002	S-02-X

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42003	Allegheny	2285002008	PM10-PRI	1.66971	ANNUAL	2002	S-02-X
42003	Allegheny	2285002010	PM10-PRI	1.11314	ANNUAL	2002	S-02-X
42003	Allegheny	2285002015	PM10-PRI	0.72826	ANNUAL	2002	E-02-X
42003	Allegheny	2285004015	PM10-PRI	0.00282	ANNUAL	2002	E-02-X
42003	Allegheny	2285006015	PM10-PRI	0.00006	ANNUAL	2002	E-02-X
			TOTAL PM10	1721.70008			
			LIB-CLN PM10	29.01581			
42003	Allegheny	2260001010	PM25-PRI	2.53920	ANNUAL	2002	E-02-X
42003	Allegheny	2260001020	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260001030	PM25-PRI	2.50300	ANNUAL	2002	E-02-X
42003	Allegheny	2260001060	PM25-PRI	0.01035	ANNUAL	2002	E-02-X
42003	Allegheny	2260002006	PM25-PRI	1.67570	ANNUAL	2002	E-02-X
42003	Allegheny	2260002009	PM25-PRI	0.07213	ANNUAL	2002	E-02-X
42003	Allegheny	2260002021	PM25-PRI	0.08678	ANNUAL	2002	E-02-X
42003	Allegheny	2260002027	PM25-PRI	0.00065	ANNUAL	2002	E-02-X
42003	Allegheny	2260002039	PM25-PRI	4.42250	ANNUAL	2002	E-02-X
42003	Allegheny	2260002054	PM25-PRI	0.01735	ANNUAL	2002	E-02-X
42003	Allegheny	2260003030	PM25-PRI	0.04191	ANNUAL	2002	E-02-X
42003	Allegheny	2260003040	PM25-PRI	0.00334	ANNUAL	2002	E-02-X
42003	Allegheny	2260004015	PM25-PRI	0.36554	ANNUAL	2002	E-02-X
42003	Allegheny	2260004016	PM25-PRI	1.06000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004020	PM25-PRI	5.09380	ANNUAL	2002	E-02-X
42003	Allegheny	2260004021	PM25-PRI	18.34600	ANNUAL	2002	E-02-X
42003	Allegheny	2260004025	PM25-PRI	6.97340	ANNUAL	2002	E-02-X
42003	Allegheny	2260004026	PM25-PRI	11.01100	ANNUAL	2002	E-02-X
42003	Allegheny	2260004030	PM25-PRI	4.55000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004031	PM25-PRI	11.79600	ANNUAL	2002	E-02-X
42003	Allegheny	2260004035	PM25-PRI	2.33290	ANNUAL	2002	E-02-X
42003	Allegheny	2260004036	PM25-PRI	3.23200	ANNUAL	2002	E-02-X
42003	Allegheny	2260004071	PM25-PRI	0.00455	ANNUAL	2002	E-02-X
42003	Allegheny	2260005035	PM25-PRI	0.00153	ANNUAL	2002	E-02-X
42003	Allegheny	2260006005	PM25-PRI	0.71666	ANNUAL	2002	E-02-X
42003	Allegheny	2260006010	PM25-PRI	5.01260	ANNUAL	2002	E-02-X
42003	Allegheny	2260006015	PM25-PRI	0.00194	ANNUAL	2002	E-02-X
42003	Allegheny	2260006035	PM25-PRI	0.03012	ANNUAL	2002	E-02-X
42003	Allegheny	2260007005	PM25-PRI	0.03127	ANNUAL	2002	E-02-X
42003	Allegheny	2265001010	PM25-PRI	0.03575	ANNUAL	2002	E-02-X
42003	Allegheny	2265001030	PM25-PRI	0.32228	ANNUAL	2002	E-02-X
42003	Allegheny	2265001050	PM25-PRI	0.48648	ANNUAL	2002	E-02-X
42003	Allegheny	2265001060	PM25-PRI	0.00805	ANNUAL	2002	E-02-X
42003	Allegheny	2265002003	PM25-PRI	0.01504	ANNUAL	2002	E-02-X
42003	Allegheny	2265002006	PM25-PRI	0.00011	ANNUAL	2002	E-02-X
42003	Allegheny	2265002009	PM25-PRI	0.04238	ANNUAL	2002	E-02-X
42003	Allegheny	2265002015	PM25-PRI	0.02592	ANNUAL	2002	E-02-X
42003	Allegheny	2265002021	PM25-PRI	0.06388	ANNUAL	2002	E-02-X
42003	Allegheny	2265002024	PM25-PRI	0.02679	ANNUAL	2002	E-02-X
42003	Allegheny	2265002027	PM25-PRI	0.00162	ANNUAL	2002	E-02-X
42003	Allegheny	2265002030	PM25-PRI	0.05335	ANNUAL	2002	E-02-X
42003	Allegheny	2265002033	PM25-PRI	0.02344	ANNUAL	2002	E-02-X
42003	Allegheny	2265002039	PM25-PRI	0.09814	ANNUAL	2002	E-02-X

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42003	Allegheny	2265002042	PM25-PRI	0.05901	ANNUAL	2002	E-02-X
42003	Allegheny	2265002045	PM25-PRI	0.00271	ANNUAL	2002	E-02-X
42003	Allegheny	2265002054	PM25-PRI	0.00723	ANNUAL	2002	E-02-X
42003	Allegheny	2265002057	PM25-PRI	0.00403	ANNUAL	2002	E-02-X
42003	Allegheny	2265002060	PM25-PRI	0.00982	ANNUAL	2002	E-02-X
42003	Allegheny	2265002066	PM25-PRI	0.03183	ANNUAL	2002	E-02-X
42003	Allegheny	2265002072	PM25-PRI	0.01865	ANNUAL	2002	E-02-X
42003	Allegheny	2265002078	PM25-PRI	0.00786	ANNUAL	2002	E-02-X
42003	Allegheny	2265002081	PM25-PRI	0.00343	ANNUAL	2002	E-02-X
42003	Allegheny	2265003010	PM25-PRI	0.05646	ANNUAL	2002	E-02-X
42003	Allegheny	2265003020	PM25-PRI	0.16319	ANNUAL	2002	E-02-X
42003	Allegheny	2265003030	PM25-PRI	0.05219	ANNUAL	2002	E-02-X
42003	Allegheny	2265003040	PM25-PRI	0.15506	ANNUAL	2002	E-02-X
42003	Allegheny	2265003050	PM25-PRI	0.00413	ANNUAL	2002	E-02-X
42003	Allegheny	2265003060	PM25-PRI	0.00296	ANNUAL	2002	E-02-X
42003	Allegheny	2265003070	PM25-PRI	0.01692	ANNUAL	2002	E-02-X
42003	Allegheny	2265004010	PM25-PRI	1.84540	ANNUAL	2002	E-02-X
42003	Allegheny	2265004011	PM25-PRI	0.87617	ANNUAL	2002	E-02-X
42003	Allegheny	2265004015	PM25-PRI	0.13787	ANNUAL	2002	E-02-X
42003	Allegheny	2265004016	PM25-PRI	0.48041	ANNUAL	2002	E-02-X
42003	Allegheny	2265004025	PM25-PRI	0.00964	ANNUAL	2002	E-02-X
42003	Allegheny	2265004026	PM25-PRI	0.01666	ANNUAL	2002	E-02-X
42003	Allegheny	2265004030	PM25-PRI	0.01896	ANNUAL	2002	E-02-X
42003	Allegheny	2265004031	PM25-PRI	0.45274	ANNUAL	2002	E-02-X
42003	Allegheny	2265004035	PM25-PRI	0.07113	ANNUAL	2002	E-02-X
42003	Allegheny	2265004036	PM25-PRI	0.09853	ANNUAL	2002	E-02-X
42003	Allegheny	2265004040	PM25-PRI	0.19058	ANNUAL	2002	E-02-X
42003	Allegheny	2265004041	PM25-PRI	0.05184	ANNUAL	2002	E-02-X
42003	Allegheny	2265004046	PM25-PRI	0.05921	ANNUAL	2002	E-02-X
42003	Allegheny	2265004051	PM25-PRI	0.06068	ANNUAL	2002	E-02-X
42003	Allegheny	2265004055	PM25-PRI	2.64120	ANNUAL	2002	E-02-X
42003	Allegheny	2265004056	PM25-PRI	0.72717	ANNUAL	2002	E-02-X
42003	Allegheny	2265004066	PM25-PRI	0.10712	ANNUAL	2002	E-02-X
42003	Allegheny	2265004071	PM25-PRI	2.36420	ANNUAL	2002	E-02-X
42003	Allegheny	2265004075	PM25-PRI	0.16867	ANNUAL	2002	E-02-X
42003	Allegheny	2265004076	PM25-PRI	0.12415	ANNUAL	2002	E-02-X
42003	Allegheny	2265005010	PM25-PRI	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2265005015	PM25-PRI	0.00018	ANNUAL	2002	E-02-X
42003	Allegheny	2265005020	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2265005025	PM25-PRI	0.00010	ANNUAL	2002	E-02-X
42003	Allegheny	2265005030	PM25-PRI	0.00005	ANNUAL	2002	E-02-X
42003	Allegheny	2265005035	PM25-PRI	0.00058	ANNUAL	2002	E-02-X
42003	Allegheny	2265005040	PM25-PRI	0.00078	ANNUAL	2002	E-02-X
42003	Allegheny	2265005045	PM25-PRI	0.00016	ANNUAL	2002	E-02-X
42003	Allegheny	2265005055	PM25-PRI	0.00026	ANNUAL	2002	E-02-X
42003	Allegheny	2265005060	PM25-PRI	0.00030	ANNUAL	2002	E-02-X
42003	Allegheny	2265006005	PM25-PRI	2.35420	ANNUAL	2002	E-02-X
42003	Allegheny	2265006010	PM25-PRI	0.78309	ANNUAL	2002	E-02-X
42003	Allegheny	2265006015	PM25-PRI	0.34995	ANNUAL	2002	E-02-X
42003	Allegheny	2265006025	PM25-PRI	0.63411	ANNUAL	2002	E-02-X
42003	Allegheny	2265006030	PM25-PRI	1.34860	ANNUAL	2002	E-02-X

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42003	Allegheny	2265006035	PM25-PRI	0.05488	ANNUAL	2002	E-02-X
42003	Allegheny	2265007010	PM25-PRI	0.00065	ANNUAL	2002	E-02-X
42003	Allegheny	2265007015	PM25-PRI	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2265008005	PM25-PRI	0.02978	ANNUAL	2002	E-02-X
42003	Allegheny	2265010010	PM25-PRI	0.07973	ANNUAL	2002	E-02-X
42003	Allegheny	2267001060	PM25-PRI	0.00044	ANNUAL	2002	E-02-X
42003	Allegheny	2267002003	PM25-PRI	0.00198	ANNUAL	2002	E-02-X
42003	Allegheny	2267002015	PM25-PRI	0.00335	ANNUAL	2002	E-02-X
42003	Allegheny	2267002021	PM25-PRI	0.00052	ANNUAL	2002	E-02-X
42003	Allegheny	2267002024	PM25-PRI	0.00034	ANNUAL	2002	E-02-X
42003	Allegheny	2267002030	PM25-PRI	0.00605	ANNUAL	2002	E-02-X
42003	Allegheny	2267002033	PM25-PRI	0.00196	ANNUAL	2002	E-02-X
42003	Allegheny	2267002039	PM25-PRI	0.00586	ANNUAL	2002	E-02-X
42003	Allegheny	2267002045	PM25-PRI	0.00211	ANNUAL	2002	E-02-X
42003	Allegheny	2267002054	PM25-PRI	0.00035	ANNUAL	2002	E-02-X
42003	Allegheny	2267002057	PM25-PRI	0.00383	ANNUAL	2002	E-02-X
42003	Allegheny	2267002060	PM25-PRI	0.00959	ANNUAL	2002	E-02-X
42003	Allegheny	2267002066	PM25-PRI	0.00102	ANNUAL	2002	E-02-X
42003	Allegheny	2267002072	PM25-PRI	0.00786	ANNUAL	2002	E-02-X
42003	Allegheny	2267002081	PM25-PRI	0.00315	ANNUAL	2002	E-02-X
42003	Allegheny	2267003010	PM25-PRI	0.04076	ANNUAL	2002	E-02-X
42003	Allegheny	2267003020	PM25-PRI	3.88910	ANNUAL	2002	E-02-X
42003	Allegheny	2267003030	PM25-PRI	0.02995	ANNUAL	2002	E-02-X
42003	Allegheny	2267003040	PM25-PRI	0.00910	ANNUAL	2002	E-02-X
42003	Allegheny	2267003050	PM25-PRI	0.00220	ANNUAL	2002	E-02-X
42003	Allegheny	2267003070	PM25-PRI	0.01834	ANNUAL	2002	E-02-X
42003	Allegheny	2267004066	PM25-PRI	0.03314	ANNUAL	2002	E-02-X
42003	Allegheny	2267005055	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267005060	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006005	PM25-PRI	0.18022	ANNUAL	2002	E-02-X
42003	Allegheny	2267006010	PM25-PRI	0.04250	ANNUAL	2002	E-02-X
42003	Allegheny	2267006015	PM25-PRI	0.05168	ANNUAL	2002	E-02-X
42003	Allegheny	2267006025	PM25-PRI	0.06435	ANNUAL	2002	E-02-X
42003	Allegheny	2267006030	PM25-PRI	0.00084	ANNUAL	2002	E-02-X
42003	Allegheny	2267006035	PM25-PRI	0.00081	ANNUAL	2002	E-02-X
42003	Allegheny	2267008005	PM25-PRI	0.01791	ANNUAL	2002	E-02-X
42003	Allegheny	2268002081	PM25-PRI	0.00012	ANNUAL	2002	E-02-X
42003	Allegheny	2268003020	PM25-PRI	0.28350	ANNUAL	2002	E-02-X
42003	Allegheny	2268003030	PM25-PRI	0.00034	ANNUAL	2002	E-02-X
42003	Allegheny	2268003040	PM25-PRI	0.00022	ANNUAL	2002	E-02-X
42003	Allegheny	2268003060	PM25-PRI	0.00076	ANNUAL	2002	E-02-X
42003	Allegheny	2268003070	PM25-PRI	0.00129	ANNUAL	2002	E-02-X
42003	Allegheny	2268005055	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268005060	PM25-PRI	0.00022	ANNUAL	2002	E-02-X
42003	Allegheny	2268006005	PM25-PRI	0.05964	ANNUAL	2002	E-02-X
42003	Allegheny	2268006010	PM25-PRI	0.00301	ANNUAL	2002	E-02-X
42003	Allegheny	2268006015	PM25-PRI	0.00435	ANNUAL	2002	E-02-X
42003	Allegheny	2268006020	PM25-PRI	0.17482	ANNUAL	2002	E-02-X
42003	Allegheny	2268006035	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268010010	PM25-PRI	0.05355	ANNUAL	2002	E-02-X
42003	Allegheny	2270001060	PM25-PRI	0.15892	ANNUAL	2002	E-02-X

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42003	Allegheny	2270002003	PM25-PRI	2.91510	ANNUAL	2002	E-02-X
42003	Allegheny	2270002006	PM25-PRI	0.00804	ANNUAL	2002	E-02-X
42003	Allegheny	2270002009	PM25-PRI	0.13070	ANNUAL	2002	E-02-X
42003	Allegheny	2270002015	PM25-PRI	8.16120	ANNUAL	2002	E-02-X
42003	Allegheny	2270002018	PM25-PRI	6.55430	ANNUAL	2002	E-02-X
42003	Allegheny	2270002021	PM25-PRI	0.51478	ANNUAL	2002	E-02-X
42003	Allegheny	2270002024	PM25-PRI	0.36354	ANNUAL	2002	E-02-X
42003	Allegheny	2270002027	PM25-PRI	1.15090	ANNUAL	2002	E-02-X
42003	Allegheny	2270002030	PM25-PRI	4.78000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002033	PM25-PRI	3.37050	ANNUAL	2002	E-02-X
42003	Allegheny	2270002036	PM25-PRI	24.42600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002039	PM25-PRI	0.36526	ANNUAL	2002	E-02-X
42003	Allegheny	2270002042	PM25-PRI	0.14774	ANNUAL	2002	E-02-X
42003	Allegheny	2270002045	PM25-PRI	5.33560	ANNUAL	2002	E-02-X
42003	Allegheny	2270002048	PM25-PRI	5.83140	ANNUAL	2002	E-02-X
42003	Allegheny	2270002051	PM25-PRI	19.28600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002054	PM25-PRI	1.11470	ANNUAL	2002	E-02-X
42003	Allegheny	2270002057	PM25-PRI	12.22100	ANNUAL	2002	E-02-X
42003	Allegheny	2270002060	PM25-PRI	30.66700	ANNUAL	2002	E-02-X
42003	Allegheny	2270002066	PM25-PRI	36.22400	ANNUAL	2002	E-02-X
42003	Allegheny	2270002069	PM25-PRI	25.27100	ANNUAL	2002	E-02-X
42003	Allegheny	2270002072	PM25-PRI	31.12800	ANNUAL	2002	E-02-X
42003	Allegheny	2270002075	PM25-PRI	3.30890	ANNUAL	2002	E-02-X
42003	Allegheny	2270002078	PM25-PRI	0.09638	ANNUAL	2002	E-02-X
42003	Allegheny	2270002081	PM25-PRI	3.46750	ANNUAL	2002	E-02-X
42003	Allegheny	2270003010	PM25-PRI	1.49310	ANNUAL	2002	E-02-X
42003	Allegheny	2270003020	PM25-PRI	10.12400	ANNUAL	2002	E-02-X
42003	Allegheny	2270003030	PM25-PRI	3.68630	ANNUAL	2002	E-02-X
42003	Allegheny	2270003040	PM25-PRI	3.98590	ANNUAL	2002	E-02-X
42003	Allegheny	2270003050	PM25-PRI	0.31537	ANNUAL	2002	E-02-X
42003	Allegheny	2270003060	PM25-PRI	19.28900	ANNUAL	2002	E-02-X
42003	Allegheny	2270003070	PM25-PRI	4.96240	ANNUAL	2002	E-02-X
42003	Allegheny	2270004031	PM25-PRI	0.00053	ANNUAL	2002	E-02-X
42003	Allegheny	2270004036	PM25-PRI	0.09829	ANNUAL	2002	E-02-X
42003	Allegheny	2270004046	PM25-PRI	3.66340	ANNUAL	2002	E-02-X
42003	Allegheny	2270004056	PM25-PRI	0.79154	ANNUAL	2002	E-02-X
42003	Allegheny	2270004066	PM25-PRI	4.12650	ANNUAL	2002	E-02-X
42003	Allegheny	2270004071	PM25-PRI	0.44248	ANNUAL	2002	E-02-X
42003	Allegheny	2270004076	PM25-PRI	0.01403	ANNUAL	2002	E-02-X
42003	Allegheny	2270005010	PM25-PRI	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2270005015	PM25-PRI	2.04730	ANNUAL	2002	E-02-X
42003	Allegheny	2270005020	PM25-PRI	0.21598	ANNUAL	2002	E-02-X
42003	Allegheny	2270005025	PM25-PRI	0.00124	ANNUAL	2002	E-02-X
42003	Allegheny	2270005030	PM25-PRI	0.00026	ANNUAL	2002	E-02-X
42003	Allegheny	2270005035	PM25-PRI	0.01724	ANNUAL	2002	E-02-X
42003	Allegheny	2270005040	PM25-PRI	0.00002	ANNUAL	2002	E-02-X
42003	Allegheny	2270005045	PM25-PRI	0.01793	ANNUAL	2002	E-02-X
42003	Allegheny	2270005055	PM25-PRI	0.04857	ANNUAL	2002	E-02-X
42003	Allegheny	2270005060	PM25-PRI	0.02298	ANNUAL	2002	E-02-X
42003	Allegheny	2270006005	PM25-PRI	17.37200	ANNUAL	2002	E-02-X
42003	Allegheny	2270006010	PM25-PRI	4.21280	ANNUAL	2002	E-02-X

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42003	Allegheny	2270006015	PM25-PRI	10.01100	ANNUAL	2002	E-02-X
42003	Allegheny	2270006020	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006025	PM25-PRI	10.38100	ANNUAL	2002	E-02-X
42003	Allegheny	2270006030	PM25-PRI	0.48717	ANNUAL	2002	E-02-X
42003	Allegheny	2270006035	PM25-PRI	0.44501	ANNUAL	2002	E-02-X
42003	Allegheny	2270007010	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270007015	PM25-PRI	0.08678	ANNUAL	2002	E-02-X
42003	Allegheny	2270008005	PM25-PRI	11.13800	ANNUAL	2002	E-02-X
42003	Allegheny	2270009010	PM25-PRI	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270010010	PM25-PRI	1.78130	ANNUAL	2002	E-02-X
42003	Allegheny	2275001000	PM25-PRI	321.01880	ANNUAL	2002	P-02-X
42003	Allegheny	2275020000	PM25-PRI	63.64437	ANNUAL	2002	P-02-X
42003	Allegheny	2275050000	PM25-PRI	0.00000	ANNUAL	2002	P-02-X
42003	Allegheny	2275060000	PM25-PRI	342.32621	ANNUAL	2002	P-02-X
42003	Allegheny	2275070000	PM25-PRI	0.00000	ANNUAL	2002	S-02-X
42003	Allegheny	2280002000	PM25-PRI	99.83330	ANNUAL	2002	S-02-X
42003	Allegheny	2282005010	PM25-PRI	7.45380	ANNUAL	2002	E-02-X
42003	Allegheny	2282005015	PM25-PRI	2.97160	ANNUAL	2002	E-02-X
42003	Allegheny	2282010005	PM25-PRI	0.17063	ANNUAL	2002	E-02-X
42003	Allegheny	2282020005	PM25-PRI	0.55845	ANNUAL	2002	E-02-X
42003	Allegheny	2282020010	PM25-PRI	0.00998	ANNUAL	2002	E-02-X
42003	Allegheny	2285002006	PM25-PRI	63.58710	ANNUAL	2002	S-02-X
42003	Allegheny	2285002007	PM25-PRI	17.13914	ANNUAL	2002	S-02-X
42003	Allegheny	2285002008	PM25-PRI	1.50274	ANNUAL	2002	S-02-X
42003	Allegheny	2285002010	PM25-PRI	1.00183	ANNUAL	2002	S-02-X
42003	Allegheny	2285002015	PM25-PRI	0.66999	ANNUAL	2002	E-02-X
42003	Allegheny	2285004015	PM25-PRI	0.00260	ANNUAL	2002	E-02-X
42003	Allegheny	2285006015	PM25-PRI	0.00006	ANNUAL	2002	E-02-X
			TOTAL PM2.5	1365.05039			
			LIB-CLN PM2.5	23.00519			
42003	Allegheny	2260001010	SO2	0.03926	ANNUAL	2002	E-02-X
42003	Allegheny	2260001020	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260001030	SO2	0.02435	ANNUAL	2002	E-02-X
42003	Allegheny	2260001060	SO2	0.01617	ANNUAL	2002	E-02-X
42003	Allegheny	2260002006	SO2	0.02613	ANNUAL	2002	E-02-X
42003	Allegheny	2260002009	SO2	0.00141	ANNUAL	2002	E-02-X
42003	Allegheny	2260002021	SO2	0.00168	ANNUAL	2002	E-02-X
42003	Allegheny	2260002027	SO2	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2260002039	SO2	0.06510	ANNUAL	2002	E-02-X
42003	Allegheny	2260002054	SO2	0.00033	ANNUAL	2002	E-02-X
42003	Allegheny	2260003030	SO2	0.00080	ANNUAL	2002	E-02-X
42003	Allegheny	2260003040	SO2	0.00006	ANNUAL	2002	E-02-X
42003	Allegheny	2260004015	SO2	0.00762	ANNUAL	2002	E-02-X
42003	Allegheny	2260004016	SO2	0.02171	ANNUAL	2002	E-02-X
42003	Allegheny	2260004020	SO2	0.10464	ANNUAL	2002	E-02-X
42003	Allegheny	2260004021	SO2	0.27383	ANNUAL	2002	E-02-X
42003	Allegheny	2260004025	SO2	0.14218	ANNUAL	2002	E-02-X
42003	Allegheny	2260004026	SO2	0.21437	ANNUAL	2002	E-02-X
42003	Allegheny	2260004030	SO2	0.09295	ANNUAL	2002	E-02-X
42003	Allegheny	2260004031	SO2	0.21052	ANNUAL	2002	E-02-X

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42003	Allegheny	2260004035	SO2	0.02396	ANNUAL	2002	E-02-X
42003	Allegheny	2260004036	SO2	0.03320	ANNUAL	2002	E-02-X
42003	Allegheny	2260004071	SO2	0.00009	ANNUAL	2002	E-02-X
42003	Allegheny	2260005035	SO2	0.00003	ANNUAL	2002	E-02-X
42003	Allegheny	2260006005	SO2	0.01411	ANNUAL	2002	E-02-X
42003	Allegheny	2260006010	SO2	0.09115	ANNUAL	2002	E-02-X
42003	Allegheny	2260006015	SO2	0.00004	ANNUAL	2002	E-02-X
42003	Allegheny	2260006035	SO2	0.00057	ANNUAL	2002	E-02-X
42003	Allegheny	2260007005	SO2	0.00045	ANNUAL	2002	E-02-X
42003	Allegheny	2265001010	SO2	0.02201	ANNUAL	2002	E-02-X
42003	Allegheny	2265001030	SO2	0.21048	ANNUAL	2002	E-02-X
42003	Allegheny	2265001050	SO2	0.68213	ANNUAL	2002	E-02-X
42003	Allegheny	2265001060	SO2	0.01317	ANNUAL	2002	E-02-X
42003	Allegheny	2265002003	SO2	0.02269	ANNUAL	2002	E-02-X
42003	Allegheny	2265002006	SO2	0.00017	ANNUAL	2002	E-02-X
42003	Allegheny	2265002009	SO2	0.03917	ANNUAL	2002	E-02-X
42003	Allegheny	2265002015	SO2	0.03989	ANNUAL	2002	E-02-X
42003	Allegheny	2265002021	SO2	0.07860	ANNUAL	2002	E-02-X
42003	Allegheny	2265002024	SO2	0.03224	ANNUAL	2002	E-02-X
42003	Allegheny	2265002027	SO2	0.00161	ANNUAL	2002	E-02-X
42003	Allegheny	2265002030	SO2	0.06886	ANNUAL	2002	E-02-X
42003	Allegheny	2265002033	SO2	0.02212	ANNUAL	2002	E-02-X
42003	Allegheny	2265002039	SO2	0.14328	ANNUAL	2002	E-02-X
42003	Allegheny	2265002042	SO2	0.07049	ANNUAL	2002	E-02-X
42003	Allegheny	2265002045	SO2	0.00577	ANNUAL	2002	E-02-X
42003	Allegheny	2265002054	SO2	0.00919	ANNUAL	2002	E-02-X
42003	Allegheny	2265002057	SO2	0.00912	ANNUAL	2002	E-02-X
42003	Allegheny	2265002060	SO2	0.02233	ANNUAL	2002	E-02-X
42003	Allegheny	2265002066	SO2	0.04747	ANNUAL	2002	E-02-X
42003	Allegheny	2265002072	SO2	0.03416	ANNUAL	2002	E-02-X
42003	Allegheny	2265002078	SO2	0.01119	ANNUAL	2002	E-02-X
42003	Allegheny	2265002081	SO2	0.00784	ANNUAL	2002	E-02-X
42003	Allegheny	2265003010	SO2	0.10895	ANNUAL	2002	E-02-X
42003	Allegheny	2265003020	SO2	0.36667	ANNUAL	2002	E-02-X
42003	Allegheny	2265003030	SO2	0.08891	ANNUAL	2002	E-02-X
42003	Allegheny	2265003040	SO2	0.14696	ANNUAL	2002	E-02-X
42003	Allegheny	2265003050	SO2	0.00768	ANNUAL	2002	E-02-X
42003	Allegheny	2265003060	SO2	0.00432	ANNUAL	2002	E-02-X
42003	Allegheny	2265003070	SO2	0.03784	ANNUAL	2002	E-02-X
42003	Allegheny	2265004010	SO2	1.39920	ANNUAL	2002	E-02-X
42003	Allegheny	2265004011	SO2	0.61700	ANNUAL	2002	E-02-X
42003	Allegheny	2265004015	SO2	0.11918	ANNUAL	2002	E-02-X
42003	Allegheny	2265004016	SO2	0.32323	ANNUAL	2002	E-02-X
42003	Allegheny	2265004025	SO2	0.00757	ANNUAL	2002	E-02-X
42003	Allegheny	2265004026	SO2	0.01532	ANNUAL	2002	E-02-X
42003	Allegheny	2265004030	SO2	0.01452	ANNUAL	2002	E-02-X
42003	Allegheny	2265004031	SO2	0.68813	ANNUAL	2002	E-02-X
42003	Allegheny	2265004035	SO2	0.15525	ANNUAL	2002	E-02-X
42003	Allegheny	2265004036	SO2	0.21509	ANNUAL	2002	E-02-X
42003	Allegheny	2265004040	SO2	0.30716	ANNUAL	2002	E-02-X
42003	Allegheny	2265004041	SO2	0.07780	ANNUAL	2002	E-02-X

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42003	Allegheny	2265004046	SO2	0.09379	ANNUAL	2002	E-02-X
42003	Allegheny	2265004051	SO2	0.03752	ANNUAL	2002	E-02-X
42003	Allegheny	2265004055	SO2	4.18380	ANNUAL	2002	E-02-X
42003	Allegheny	2265004056	SO2	1.07420	ANNUAL	2002	E-02-X
42003	Allegheny	2265004066	SO2	0.18533	ANNUAL	2002	E-02-X
42003	Allegheny	2265004071	SO2	3.29140	ANNUAL	2002	E-02-X
42003	Allegheny	2265004075	SO2	0.13992	ANNUAL	2002	E-02-X
42003	Allegheny	2265004076	SO2	0.10327	ANNUAL	2002	E-02-X
42003	Allegheny	2265005010	SO2	0.00009	ANNUAL	2002	E-02-X
42003	Allegheny	2265005015	SO2	0.00037	ANNUAL	2002	E-02-X
42003	Allegheny	2265005020	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2265005025	SO2	0.00023	ANNUAL	2002	E-02-X
42003	Allegheny	2265005030	SO2	0.00007	ANNUAL	2002	E-02-X
42003	Allegheny	2265005035	SO2	0.00078	ANNUAL	2002	E-02-X
42003	Allegheny	2265005040	SO2	0.00169	ANNUAL	2002	E-02-X
42003	Allegheny	2265005045	SO2	0.00036	ANNUAL	2002	E-02-X
42003	Allegheny	2265005055	SO2	0.00053	ANNUAL	2002	E-02-X
42003	Allegheny	2265005060	SO2	0.00065	ANNUAL	2002	E-02-X
42003	Allegheny	2265006005	SO2	3.44770	ANNUAL	2002	E-02-X
42003	Allegheny	2265006010	SO2	0.80818	ANNUAL	2002	E-02-X
42003	Allegheny	2265006015	SO2	0.44122	ANNUAL	2002	E-02-X
42003	Allegheny	2265006025	SO2	0.96155	ANNUAL	2002	E-02-X
42003	Allegheny	2265006030	SO2	1.46100	ANNUAL	2002	E-02-X
42003	Allegheny	2265006035	SO2	0.06954	ANNUAL	2002	E-02-X
42003	Allegheny	2265007010	SO2	0.00106	ANNUAL	2002	E-02-X
42003	Allegheny	2265007015	SO2	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2265008005	SO2	0.05000	ANNUAL	2002	E-02-X
42003	Allegheny	2265010010	SO2	0.11208	ANNUAL	2002	E-02-X
42003	Allegheny	2267001060	SO2	0.00010	ANNUAL	2002	E-02-X
42003	Allegheny	2267002003	SO2	0.00045	ANNUAL	2002	E-02-X
42003	Allegheny	2267002015	SO2	0.00077	ANNUAL	2002	E-02-X
42003	Allegheny	2267002021	SO2	0.00012	ANNUAL	2002	E-02-X
42003	Allegheny	2267002024	SO2	0.00008	ANNUAL	2002	E-02-X
42003	Allegheny	2267002030	SO2	0.00139	ANNUAL	2002	E-02-X
42003	Allegheny	2267002033	SO2	0.00046	ANNUAL	2002	E-02-X
42003	Allegheny	2267002039	SO2	0.00132	ANNUAL	2002	E-02-X
42003	Allegheny	2267002045	SO2	0.00049	ANNUAL	2002	E-02-X
42003	Allegheny	2267002054	SO2	0.00008	ANNUAL	2002	E-02-X
42003	Allegheny	2267002057	SO2	0.00089	ANNUAL	2002	E-02-X
42003	Allegheny	2267002060	SO2	0.00220	ANNUAL	2002	E-02-X
42003	Allegheny	2267002066	SO2	0.00023	ANNUAL	2002	E-02-X
42003	Allegheny	2267002072	SO2	0.00182	ANNUAL	2002	E-02-X
42003	Allegheny	2267002081	SO2	0.00073	ANNUAL	2002	E-02-X
42003	Allegheny	2267003010	SO2	0.00951	ANNUAL	2002	E-02-X
42003	Allegheny	2267003020	SO2	0.89475	ANNUAL	2002	E-02-X
42003	Allegheny	2267003030	SO2	0.00682	ANNUAL	2002	E-02-X
42003	Allegheny	2267003040	SO2	0.00209	ANNUAL	2002	E-02-X
42003	Allegheny	2267003050	SO2	0.00051	ANNUAL	2002	E-02-X
42003	Allegheny	2267003070	SO2	0.00416	ANNUAL	2002	E-02-X
42003	Allegheny	2267004066	SO2	0.00760	ANNUAL	2002	E-02-X
42003	Allegheny	2267005055	SO2	0.00000	ANNUAL	2002	E-02-X

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42003	Allegheny	2267005060	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2267006005	SO2	0.04316	ANNUAL	2002	E-02-X
42003	Allegheny	2267006010	SO2	0.01003	ANNUAL	2002	E-02-X
42003	Allegheny	2267006015	SO2	0.01208	ANNUAL	2002	E-02-X
42003	Allegheny	2267006025	SO2	0.01502	ANNUAL	2002	E-02-X
42003	Allegheny	2267006030	SO2	0.00020	ANNUAL	2002	E-02-X
42003	Allegheny	2267006035	SO2	0.00019	ANNUAL	2002	E-02-X
42003	Allegheny	2267008005	SO2	0.00413	ANNUAL	2002	E-02-X
42003	Allegheny	2268002081	SO2	0.00002	ANNUAL	2002	E-02-X
42003	Allegheny	2268003020	SO2	0.05498	ANNUAL	2002	E-02-X
42003	Allegheny	2268003030	SO2	0.00007	ANNUAL	2002	E-02-X
42003	Allegheny	2268003040	SO2	0.00004	ANNUAL	2002	E-02-X
42003	Allegheny	2268003060	SO2	0.00015	ANNUAL	2002	E-02-X
42003	Allegheny	2268003070	SO2	0.00025	ANNUAL	2002	E-02-X
42003	Allegheny	2268005055	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268005060	SO2	0.00004	ANNUAL	2002	E-02-X
42003	Allegheny	2268006005	SO2	0.01248	ANNUAL	2002	E-02-X
42003	Allegheny	2268006010	SO2	0.00062	ANNUAL	2002	E-02-X
42003	Allegheny	2268006015	SO2	0.00089	ANNUAL	2002	E-02-X
42003	Allegheny	2268006020	SO2	0.03042	ANNUAL	2002	E-02-X
42003	Allegheny	2268006035	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268010010	SO2	0.00985	ANNUAL	2002	E-02-X
42003	Allegheny	2270001060	SO2	0.11581	ANNUAL	2002	E-02-X
42003	Allegheny	2270002003	SO2	4.43860	ANNUAL	2002	E-02-X
42003	Allegheny	2270002006	SO2	0.01777	ANNUAL	2002	E-02-X
42003	Allegheny	2270002009	SO2	0.11898	ANNUAL	2002	E-02-X
42003	Allegheny	2270002015	SO2	11.10600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002018	SO2	12.08800	ANNUAL	2002	E-02-X
42003	Allegheny	2270002021	SO2	0.66701	ANNUAL	2002	E-02-X
42003	Allegheny	2270002024	SO2	0.41177	ANNUAL	2002	E-02-X
42003	Allegheny	2270002027	SO2	1.22400	ANNUAL	2002	E-02-X
42003	Allegheny	2270002030	SO2	5.26370	ANNUAL	2002	E-02-X
42003	Allegheny	2270002033	SO2	4.53390	ANNUAL	2002	E-02-X
42003	Allegheny	2270002036	SO2	45.05600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002039	SO2	0.37222	ANNUAL	2002	E-02-X
42003	Allegheny	2270002042	SO2	0.17682	ANNUAL	2002	E-02-X
42003	Allegheny	2270002045	SO2	10.28000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002048	SO2	11.21300	ANNUAL	2002	E-02-X
42003	Allegheny	2270002051	SO2	38.50600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002054	SO2	1.81530	ANNUAL	2002	E-02-X
42003	Allegheny	2270002057	SO2	14.40500	ANNUAL	2002	E-02-X
42003	Allegheny	2270002060	SO2	49.03000	ANNUAL	2002	E-02-X
42003	Allegheny	2270002066	SO2	29.65100	ANNUAL	2002	E-02-X
42003	Allegheny	2270002069	SO2	44.86200	ANNUAL	2002	E-02-X
42003	Allegheny	2270002072	SO2	20.28300	ANNUAL	2002	E-02-X
42003	Allegheny	2270002075	SO2	4.82820	ANNUAL	2002	E-02-X
42003	Allegheny	2270002078	SO2	0.06261	ANNUAL	2002	E-02-X
42003	Allegheny	2270002081	SO2	4.62350	ANNUAL	2002	E-02-X
42003	Allegheny	2270003010	SO2	1.02410	ANNUAL	2002	E-02-X
42003	Allegheny	2270003020	SO2	14.91600	ANNUAL	2002	E-02-X
42003	Allegheny	2270003030	SO2	6.51000	ANNUAL	2002	E-02-X

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42003	Allegheny	2270003040	SO2	6.60640	ANNUAL	2002	E-02-X
42003	Allegheny	2270003050	SO2	0.25375	ANNUAL	2002	E-02-X
42003	Allegheny	2270003060	SO2	26.04000	ANNUAL	2002	E-02-X
42003	Allegheny	2270003070	SO2	9.40070	ANNUAL	2002	E-02-X
42003	Allegheny	2270004031	SO2	0.00059	ANNUAL	2002	E-02-X
42003	Allegheny	2270004036	SO2	0.15385	ANNUAL	2002	E-02-X
42003	Allegheny	2270004046	SO2	4.07100	ANNUAL	2002	E-02-X
42003	Allegheny	2270004056	SO2	0.83986	ANNUAL	2002	E-02-X
42003	Allegheny	2270004066	SO2	5.55330	ANNUAL	2002	E-02-X
42003	Allegheny	2270004071	SO2	0.65494	ANNUAL	2002	E-02-X
42003	Allegheny	2270004076	SO2	0.01549	ANNUAL	2002	E-02-X
42003	Allegheny	2270005010	SO2	0.00005	ANNUAL	2002	E-02-X
42003	Allegheny	2270005015	SO2	2.02890	ANNUAL	2002	E-02-X
42003	Allegheny	2270005020	SO2	0.18232	ANNUAL	2002	E-02-X
42003	Allegheny	2270005025	SO2	0.00102	ANNUAL	2002	E-02-X
42003	Allegheny	2270005030	SO2	0.00020	ANNUAL	2002	E-02-X
42003	Allegheny	2270005035	SO2	0.01544	ANNUAL	2002	E-02-X
42003	Allegheny	2270005040	SO2	0.00002	ANNUAL	2002	E-02-X
42003	Allegheny	2270005045	SO2	0.01431	ANNUAL	2002	E-02-X
42003	Allegheny	2270005055	SO2	0.03962	ANNUAL	2002	E-02-X
42003	Allegheny	2270005060	SO2	0.02912	ANNUAL	2002	E-02-X
42003	Allegheny	2270006005	SO2	20.52100	ANNUAL	2002	E-02-X
42003	Allegheny	2270006010	SO2	4.84260	ANNUAL	2002	E-02-X
42003	Allegheny	2270006015	SO2	13.43500	ANNUAL	2002	E-02-X
42003	Allegheny	2270006020	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006025	SO2	6.78990	ANNUAL	2002	E-02-X
42003	Allegheny	2270006030	SO2	0.65649	ANNUAL	2002	E-02-X
42003	Allegheny	2270006035	SO2	0.58265	ANNUAL	2002	E-02-X
42003	Allegheny	2270007010	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270007015	SO2	0.17385	ANNUAL	2002	E-02-X
42003	Allegheny	2270008005	SO2	17.60400	ANNUAL	2002	E-02-X
42003	Allegheny	2270009010	SO2	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270010010	SO2	3.24520	ANNUAL	2002	E-02-X
42003	Allegheny	2275001000	SO2	0.00000	ANNUAL	2002	S-02-X
42003	Allegheny	2275020000	SO2	107.20000	ANNUAL	2002	E-02-X
42003	Allegheny	2275050000	SO2	14.29769	ANNUAL	2002	P-02-X
42003	Allegheny	2275060000	SO2	12.34142	ANNUAL	2002	P-02-X
42003	Allegheny	2275070000	SO2	5.15100	ANNUAL	2002	S-02-X
42003	Allegheny	2280002000	SO2	102.47802	ANNUAL	2002	S-02-X
42003	Allegheny	2282005010	SO2	0.68604	ANNUAL	2002	E-02-X
42003	Allegheny	2282005015	SO2	0.27706	ANNUAL	2002	E-02-X
42003	Allegheny	2282010005	SO2	0.41795	ANNUAL	2002	E-02-X
42003	Allegheny	2282020005	SO2	2.87830	ANNUAL	2002	E-02-X
42003	Allegheny	2282020010	SO2	0.01238	ANNUAL	2002	E-02-X
42003	Allegheny	2285002006	SO2	173.09810	ANNUAL	2002	S-02-X
42003	Allegheny	2285002007	SO2	46.65654	ANNUAL	2002	S-02-X
42003	Allegheny	2285002008	SO2	4.09080	ANNUAL	2002	S-02-X
42003	Allegheny	2285002010	SO2	2.72720	ANNUAL	2002	S-02-X
42003	Allegheny	2285002015	SO2	0.53485	ANNUAL	2002	E-02-X
42003	Allegheny	2285004015	SO2	0.00353	ANNUAL	2002	E-02-X
42003	Allegheny	2285006015	SO2	0.00001	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
			TOTAL SO2	959.50171			
			LIB-CLN SO2	16.17048			
42003	Allegheny	2260001010	VOC	75.69500	ANNUAL	2002	E-02-X
42003	Allegheny	2260001020	VOC	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260001030	VOC	75.39900	ANNUAL	2002	E-02-X
42003	Allegheny	2260001060	VOC	1.63560	ANNUAL	2002	E-02-X
42003	Allegheny	2260002006	VOC	30.06200	ANNUAL	2002	E-02-X
42003	Allegheny	2260002009	VOC	1.82210	ANNUAL	2002	E-02-X
42003	Allegheny	2260002021	VOC	2.16970	ANNUAL	2002	E-02-X
42003	Allegheny	2260002027	VOC	0.01555	ANNUAL	2002	E-02-X
42003	Allegheny	2260002039	VOC	80.02500	ANNUAL	2002	E-02-X
42003	Allegheny	2260002054	VOC	0.40270	ANNUAL	2002	E-02-X
42003	Allegheny	2260003030	VOC	0.97304	ANNUAL	2002	E-02-X
42003	Allegheny	2260003040	VOC	0.07655	ANNUAL	2002	E-02-X
42003	Allegheny	2260004015	VOC	11.18600	ANNUAL	2002	E-02-X
42003	Allegheny	2260004016	VOC	29.29100	ANNUAL	2002	E-02-X
42003	Allegheny	2260004020	VOC	160.71000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004021	VOC	373.30000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004025	VOC	217.81000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004026	VOC	285.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004030	VOC	137.93000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004031	VOC	259.72000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004035	VOC	86.33300	ANNUAL	2002	E-02-X
42003	Allegheny	2260004036	VOC	102.82000	ANNUAL	2002	E-02-X
42003	Allegheny	2260004071	VOC	0.11490	ANNUAL	2002	E-02-X
42003	Allegheny	2260005035	VOC	0.04190	ANNUAL	2002	E-02-X
42003	Allegheny	2260006005	VOC	18.37600	ANNUAL	2002	E-02-X
42003	Allegheny	2260006010	VOC	125.67000	ANNUAL	2002	E-02-X
42003	Allegheny	2260006015	VOC	0.04438	ANNUAL	2002	E-02-X
42003	Allegheny	2260006035	VOC	0.69216	ANNUAL	2002	E-02-X
42003	Allegheny	2260007005	VOC	0.58057	ANNUAL	2002	E-02-X
42003	Allegheny	2265001010	VOC	3.01920	ANNUAL	2002	E-02-X
42003	Allegheny	2265001030	VOC	30.96200	ANNUAL	2002	E-02-X
42003	Allegheny	2265001050	VOC	54.47200	ANNUAL	2002	E-02-X
42003	Allegheny	2265001060	VOC	1.78050	ANNUAL	2002	E-02-X
42003	Allegheny	2265002003	VOC	1.72160	ANNUAL	2002	E-02-X
42003	Allegheny	2265002006	VOC	0.01492	ANNUAL	2002	E-02-X
42003	Allegheny	2265002009	VOC	6.64330	ANNUAL	2002	E-02-X
42003	Allegheny	2265002015	VOC	2.76130	ANNUAL	2002	E-02-X
42003	Allegheny	2265002021	VOC	9.35290	ANNUAL	2002	E-02-X
42003	Allegheny	2265002024	VOC	3.41420	ANNUAL	2002	E-02-X
42003	Allegheny	2265002027	VOC	0.23671	ANNUAL	2002	E-02-X
42003	Allegheny	2265002030	VOC	6.75670	ANNUAL	2002	E-02-X
42003	Allegheny	2265002033	VOC	3.95900	ANNUAL	2002	E-02-X
42003	Allegheny	2265002039	VOC	9.94220	ANNUAL	2002	E-02-X
42003	Allegheny	2265002042	VOC	10.04400	ANNUAL	2002	E-02-X
42003	Allegheny	2265002045	VOC	0.34508	ANNUAL	2002	E-02-X
42003	Allegheny	2265002054	VOC	0.89368	ANNUAL	2002	E-02-X
42003	Allegheny	2265002057	VOC	0.51241	ANNUAL	2002	E-02-X
42003	Allegheny	2265002060	VOC	1.23670	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265002066	VOC	3.35020	ANNUAL	2002	E-02-X
42003	Allegheny	2265002072	VOC	2.33830	ANNUAL	2002	E-02-X
42003	Allegheny	2265002078	VOC	1.42460	ANNUAL	2002	E-02-X
42003	Allegheny	2265002081	VOC	0.44386	ANNUAL	2002	E-02-X
42003	Allegheny	2265003010	VOC	7.27330	ANNUAL	2002	E-02-X
42003	Allegheny	2265003020	VOC	20.40800	ANNUAL	2002	E-02-X
42003	Allegheny	2265003030	VOC	6.35100	ANNUAL	2002	E-02-X
42003	Allegheny	2265003040	VOC	22.44900	ANNUAL	2002	E-02-X
42003	Allegheny	2265003050	VOC	0.51805	ANNUAL	2002	E-02-X
42003	Allegheny	2265003060	VOC	0.36069	ANNUAL	2002	E-02-X
42003	Allegheny	2265003070	VOC	2.10130	ANNUAL	2002	E-02-X
42003	Allegheny	2265004010	VOC	450.97000	ANNUAL	2002	E-02-X
42003	Allegheny	2265004011	VOC	160.40000	ANNUAL	2002	E-02-X
42003	Allegheny	2265004015	VOC	38.93100	ANNUAL	2002	E-02-X
42003	Allegheny	2265004016	VOC	80.87300	ANNUAL	2002	E-02-X
42003	Allegheny	2265004025	VOC	2.61630	ANNUAL	2002	E-02-X
42003	Allegheny	2265004026	VOC	3.01230	ANNUAL	2002	E-02-X
42003	Allegheny	2265004030	VOC	4.62850	ANNUAL	2002	E-02-X
42003	Allegheny	2265004031	VOC	59.51100	ANNUAL	2002	E-02-X
42003	Allegheny	2265004035	VOC	38.27600	ANNUAL	2002	E-02-X
42003	Allegheny	2265004036	VOC	19.95200	ANNUAL	2002	E-02-X
42003	Allegheny	2265004040	VOC	42.84700	ANNUAL	2002	E-02-X
42003	Allegheny	2265004041	VOC	5.99150	ANNUAL	2002	E-02-X
42003	Allegheny	2265004046	VOC	9.80220	ANNUAL	2002	E-02-X
42003	Allegheny	2265004051	VOC	9.81370	ANNUAL	2002	E-02-X
42003	Allegheny	2265004055	VOC	507.81000	ANNUAL	2002	E-02-X
42003	Allegheny	2265004056	VOC	80.72100	ANNUAL	2002	E-02-X
42003	Allegheny	2265004066	VOC	11.70100	ANNUAL	2002	E-02-X
42003	Allegheny	2265004071	VOC	285.25000	ANNUAL	2002	E-02-X
42003	Allegheny	2265004075	VOC	25.99300	ANNUAL	2002	E-02-X
42003	Allegheny	2265004076	VOC	19.19000	ANNUAL	2002	E-02-X
42003	Allegheny	2265005010	VOC	0.00653	ANNUAL	2002	E-02-X
42003	Allegheny	2265005015	VOC	0.02106	ANNUAL	2002	E-02-X
42003	Allegheny	2265005020	VOC	0.00015	ANNUAL	2002	E-02-X
42003	Allegheny	2265005025	VOC	0.01601	ANNUAL	2002	E-02-X
42003	Allegheny	2265005030	VOC	0.00677	ANNUAL	2002	E-02-X
42003	Allegheny	2265005035	VOC	0.09738	ANNUAL	2002	E-02-X
42003	Allegheny	2265005040	VOC	0.19731	ANNUAL	2002	E-02-X
42003	Allegheny	2265005045	VOC	0.02323	ANNUAL	2002	E-02-X
42003	Allegheny	2265005055	VOC	0.03704	ANNUAL	2002	E-02-X
42003	Allegheny	2265005060	VOC	0.03837	ANNUAL	2002	E-02-X
42003	Allegheny	2265006005	VOC	393.08000	ANNUAL	2002	E-02-X
42003	Allegheny	2265006010	VOC	117.62000	ANNUAL	2002	E-02-X
42003	Allegheny	2265006015	VOC	46.93700	ANNUAL	2002	E-02-X
42003	Allegheny	2265006025	VOC	76.58100	ANNUAL	2002	E-02-X
42003	Allegheny	2265006030	VOC	208.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2265006035	VOC	7.06970	ANNUAL	2002	E-02-X
42003	Allegheny	2265007010	VOC	0.11908	ANNUAL	2002	E-02-X
42003	Allegheny	2265007015	VOC	0.00189	ANNUAL	2002	E-02-X
42003	Allegheny	2265008005	VOC	3.88540	ANNUAL	2002	E-02-X
42003	Allegheny	2265010010	VOC	7.46610	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2267001060	VOC	0.02530	ANNUAL	2002	E-02-X
42003	Allegheny	2267002003	VOC	0.11424	ANNUAL	2002	E-02-X
42003	Allegheny	2267002015	VOC	0.19381	ANNUAL	2002	E-02-X
42003	Allegheny	2267002021	VOC	0.02988	ANNUAL	2002	E-02-X
42003	Allegheny	2267002024	VOC	0.01971	ANNUAL	2002	E-02-X
42003	Allegheny	2267002030	VOC	0.34960	ANNUAL	2002	E-02-X
42003	Allegheny	2267002033	VOC	0.11344	ANNUAL	2002	E-02-X
42003	Allegheny	2267002039	VOC	0.33882	ANNUAL	2002	E-02-X
42003	Allegheny	2267002045	VOC	0.12219	ANNUAL	2002	E-02-X
42003	Allegheny	2267002054	VOC	0.02035	ANNUAL	2002	E-02-X
42003	Allegheny	2267002057	VOC	0.22170	ANNUAL	2002	E-02-X
42003	Allegheny	2267002060	VOC	0.55463	ANNUAL	2002	E-02-X
42003	Allegheny	2267002066	VOC	0.05914	ANNUAL	2002	E-02-X
42003	Allegheny	2267002072	VOC	0.45448	ANNUAL	2002	E-02-X
42003	Allegheny	2267002081	VOC	0.18211	ANNUAL	2002	E-02-X
42003	Allegheny	2267003010	VOC	2.35690	ANNUAL	2002	E-02-X
42003	Allegheny	2267003020	VOC	224.87000	ANNUAL	2002	E-02-X
42003	Allegheny	2267003030	VOC	1.73200	ANNUAL	2002	E-02-X
42003	Allegheny	2267003040	VOC	0.52627	ANNUAL	2002	E-02-X
42003	Allegheny	2267003050	VOC	0.12743	ANNUAL	2002	E-02-X
42003	Allegheny	2267003070	VOC	1.06020	ANNUAL	2002	E-02-X
42003	Allegheny	2267004066	VOC	1.91630	ANNUAL	2002	E-02-X
42003	Allegheny	2267005055	VOC	0.00013	ANNUAL	2002	E-02-X
42003	Allegheny	2267005060	VOC	0.00011	ANNUAL	2002	E-02-X
42003	Allegheny	2267006005	VOC	8.01570	ANNUAL	2002	E-02-X
42003	Allegheny	2267006010	VOC	1.89040	ANNUAL	2002	E-02-X
42003	Allegheny	2267006015	VOC	2.29850	ANNUAL	2002	E-02-X
42003	Allegheny	2267006025	VOC	3.72060	ANNUAL	2002	E-02-X
42003	Allegheny	2267006030	VOC	0.04840	ANNUAL	2002	E-02-X
42003	Allegheny	2267006035	VOC	0.03583	ANNUAL	2002	E-02-X
42003	Allegheny	2267008005	VOC	1.03540	ANNUAL	2002	E-02-X
42003	Allegheny	2268002081	VOC	0.00042	ANNUAL	2002	E-02-X
42003	Allegheny	2268003020	VOC	0.96617	ANNUAL	2002	E-02-X
42003	Allegheny	2268003030	VOC	0.00116	ANNUAL	2002	E-02-X
42003	Allegheny	2268003040	VOC	0.00076	ANNUAL	2002	E-02-X
42003	Allegheny	2268003060	VOC	0.00259	ANNUAL	2002	E-02-X
42003	Allegheny	2268003070	VOC	0.00440	ANNUAL	2002	E-02-X
42003	Allegheny	2268005055	VOC	0.00001	ANNUAL	2002	E-02-X
42003	Allegheny	2268005060	VOC	0.00074	ANNUAL	2002	E-02-X
42003	Allegheny	2268006005	VOC	0.15637	ANNUAL	2002	E-02-X
42003	Allegheny	2268006010	VOC	0.00790	ANNUAL	2002	E-02-X
42003	Allegheny	2268006015	VOC	0.01141	ANNUAL	2002	E-02-X
42003	Allegheny	2268006020	VOC	0.59580	ANNUAL	2002	E-02-X
42003	Allegheny	2268006035	VOC	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2268010010	VOC	0.18249	ANNUAL	2002	E-02-X
42003	Allegheny	2270001060	VOC	0.30872	ANNUAL	2002	E-02-X
42003	Allegheny	2270002003	VOC	3.26200	ANNUAL	2002	E-02-X
42003	Allegheny	2270002006	VOC	0.01209	ANNUAL	2002	E-02-X
42003	Allegheny	2270002009	VOC	0.20266	ANNUAL	2002	E-02-X
42003	Allegheny	2270002015	VOC	9.24660	ANNUAL	2002	E-02-X
42003	Allegheny	2270002018	VOC	6.78470	ANNUAL	2002	E-02-X

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42003	Allegheny	2270002021	VOC	0.59613	ANNUAL	2002	E-02-X
42003	Allegheny	2270002024	VOC	0.41129	ANNUAL	2002	E-02-X
42003	Allegheny	2270002027	VOC	1.99910	ANNUAL	2002	E-02-X
42003	Allegheny	2270002030	VOC	5.50560	ANNUAL	2002	E-02-X
42003	Allegheny	2270002033	VOC	4.31680	ANNUAL	2002	E-02-X
42003	Allegheny	2270002036	VOC	26.77100	ANNUAL	2002	E-02-X
42003	Allegheny	2270002039	VOC	0.44353	ANNUAL	2002	E-02-X
42003	Allegheny	2270002042	VOC	0.20760	ANNUAL	2002	E-02-X
42003	Allegheny	2270002045	VOC	6.97400	ANNUAL	2002	E-02-X
42003	Allegheny	2270002048	VOC	6.66570	ANNUAL	2002	E-02-X
42003	Allegheny	2270002051	VOC	23.07300	ANNUAL	2002	E-02-X
42003	Allegheny	2270002054	VOC	1.42170	ANNUAL	2002	E-02-X
42003	Allegheny	2270002057	VOC	13.29600	ANNUAL	2002	E-02-X
42003	Allegheny	2270002060	VOC	33.27700	ANNUAL	2002	E-02-X
42003	Allegheny	2270002066	VOC	57.44700	ANNUAL	2002	E-02-X
42003	Allegheny	2270002069	VOC	28.91500	ANNUAL	2002	E-02-X
42003	Allegheny	2270002072	VOC	55.46300	ANNUAL	2002	E-02-X
42003	Allegheny	2270002075	VOC	3.91210	ANNUAL	2002	E-02-X
42003	Allegheny	2270002078	VOC	0.16857	ANNUAL	2002	E-02-X
42003	Allegheny	2270002081	VOC	3.65050	ANNUAL	2002	E-02-X
42003	Allegheny	2270003010	VOC	2.68280	ANNUAL	2002	E-02-X
42003	Allegheny	2270003020	VOC	9.46980	ANNUAL	2002	E-02-X
42003	Allegheny	2270003030	VOC	4.89790	ANNUAL	2002	E-02-X
42003	Allegheny	2270003040	VOC	5.30190	ANNUAL	2002	E-02-X
42003	Allegheny	2270003050	VOC	0.49902	ANNUAL	2002	E-02-X
42003	Allegheny	2270003060	VOC	24.48000	ANNUAL	2002	E-02-X
42003	Allegheny	2270003070	VOC	5.18830	ANNUAL	2002	E-02-X
42003	Allegheny	2270004031	VOC	0.00105	ANNUAL	2002	E-02-X
42003	Allegheny	2270004036	VOC	0.13391	ANNUAL	2002	E-02-X
42003	Allegheny	2270004046	VOC	6.29040	ANNUAL	2002	E-02-X
42003	Allegheny	2270004056	VOC	1.39310	ANNUAL	2002	E-02-X
42003	Allegheny	2270004066	VOC	5.39220	ANNUAL	2002	E-02-X
42003	Allegheny	2270004071	VOC	0.65016	ANNUAL	2002	E-02-X
42003	Allegheny	2270004076	VOC	0.02003	ANNUAL	2002	E-02-X
42003	Allegheny	2270005010	VOC	0.00008	ANNUAL	2002	E-02-X
42003	Allegheny	2270005015	VOC	2.25620	ANNUAL	2002	E-02-X
42003	Allegheny	2270005020	VOC	0.16432	ANNUAL	2002	E-02-X
42003	Allegheny	2270005025	VOC	0.00166	ANNUAL	2002	E-02-X
42003	Allegheny	2270005030	VOC	0.00027	ANNUAL	2002	E-02-X
42003	Allegheny	2270005035	VOC	0.02397	ANNUAL	2002	E-02-X
42003	Allegheny	2270005040	VOC	0.00002	ANNUAL	2002	E-02-X
42003	Allegheny	2270005045	VOC	0.01479	ANNUAL	2002	E-02-X
42003	Allegheny	2270005055	VOC	0.05030	ANNUAL	2002	E-02-X
42003	Allegheny	2270005060	VOC	0.03096	ANNUAL	2002	E-02-X
42003	Allegheny	2270006005	VOC	26.08400	ANNUAL	2002	E-02-X
42003	Allegheny	2270006010	VOC	5.73570	ANNUAL	2002	E-02-X
42003	Allegheny	2270006015	VOC	12.92900	ANNUAL	2002	E-02-X
42003	Allegheny	2270006020	VOC	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270006025	VOC	19.68300	ANNUAL	2002	E-02-X
42003	Allegheny	2270006030	VOC	0.81990	ANNUAL	2002	E-02-X
42003	Allegheny	2270006035	VOC	0.60228	ANNUAL	2002	E-02-X

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270007010	VOC	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270007015	VOC	0.09149	ANNUAL	2002	E-02-X
42003	Allegheny	2270008005	VOC	12.40300	ANNUAL	2002	E-02-X
42003	Allegheny	2270009010	VOC	0.00000	ANNUAL	2002	E-02-X
42003	Allegheny	2270010010	VOC	2.42160	ANNUAL	2002	E-02-X
42003	Allegheny	2275001000	VOC	0.57127	ANNUAL	2002	S-02-X
42003	Allegheny	2275020000	VOC	202.81000	ANNUAL	2002	E-02-X
42003	Allegheny	2275050000	VOC	36.35684	ANNUAL	2002	S-02-X
42003	Allegheny	2275060000	VOC	45.20978	ANNUAL	2002	S-02-X
42003	Allegheny	2275070000	VOC	3.37702	ANNUAL	2002	S-02-X
42003	Allegheny	2280002000	VOC	253.12940	ANNUAL	2002	S-02-X
42003	Allegheny	2282005010	VOC	476.49000	ANNUAL	2002	E-02-X
42003	Allegheny	2282005015	VOC	163.48000	ANNUAL	2002	E-02-X
42003	Allegheny	2282010005	VOC	34.86800	ANNUAL	2002	E-02-X
42003	Allegheny	2282020005	VOC	0.80755	ANNUAL	2002	E-02-X
42003	Allegheny	2282020010	VOC	0.02029	ANNUAL	2002	E-02-X
42003	Allegheny	2285002006	VOC	111.72930	ANNUAL	2002	S-02-X
42003	Allegheny	2285002007	VOC	30.11531	ANNUAL	2002	S-02-X
42003	Allegheny	2285002008	VOC	2.64048	ANNUAL	2002	S-02-X
42003	Allegheny	2285002010	VOC	1.76032	ANNUAL	2002	S-02-X
42003	Allegheny	2285002015	VOC	0.96170	ANNUAL	2002	E-02-X
42003	Allegheny	2285004015	VOC	0.33357	ANNUAL	2002	E-02-X
42003	Allegheny	2285006015	VOC	0.00331	ANNUAL	2002	E-02-X
			TOTAL VOC	7075.54876			
			LIB-CLN VOC	119.24422			

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2260001010	NH3	0.00977	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001020	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001030	NH3	0.01065	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001060	NH3	0.00138	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002006	NH3	0.00231	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002009	NH3	0.00013	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002021	NH3	0.00016	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002027	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002039	NH3	0.00598	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002054	NH3	0.00003	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003030	NH3	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003040	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004015	NH3	0.00084	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004016	NH3	0.00240	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004020	NH3	0.01150	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004021	NH3	0.02973	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004025	NH3	0.01596	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004026	NH3	0.02368	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004030	NH3	0.01028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004031	NH3	0.02281	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004035	NH3	0.00576	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004036	NH3	0.00798	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004071	NH3	0.00001	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2260005035	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006005	NH3	0.00174	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006010	NH3	0.01178	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006015	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006035	NH3	0.00007	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260007005	NH3	0.00005	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001010	NH3	0.00306	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001030	NH3	0.03216	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001050	NH3	0.05454	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001060	NH3	0.00102	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002003	NH3	0.00166	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002006	NH3	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002009	NH3	0.00292	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002015	NH3	0.00293	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002021	NH3	0.00572	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002024	NH3	0.00242	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002027	NH3	0.00012	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002030	NH3	0.00508	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002033	NH3	0.00166	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002039	NH3	0.01076	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002042	NH3	0.00506	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002045	NH3	0.00041	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002054	NH3	0.00069	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002057	NH3	0.00063	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002060	NH3	0.00147	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002066	NH3	0.00353	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002072	NH3	0.00243	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002078	NH3	0.00080	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002081	NH3	0.00057	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003010	NH3	0.00381	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003020	NH3	0.01150	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003030	NH3	0.00288	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003040	NH3	0.00515	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003050	NH3	0.00027	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003060	NH3	0.00015	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003070	NH3	0.00114	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004010	NH3	0.12270	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004011	NH3	0.05553	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004015	NH3	0.01031	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004016	NH3	0.02892	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004025	NH3	0.00067	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004026	NH3	0.00135	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004030	NH3	0.00127	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004031	NH3	0.05886	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004035	NH3	0.01479	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004036	NH3	0.02049	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004040	NH3	0.02613	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004041	NH3	0.00681	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004046	NH3	0.00782	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004051	NH3	0.00336	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004055	NH3	0.35033	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265004056	NH3	0.09251	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004066	NH3	0.01544	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004071	NH3	0.29281	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004075	NH3	0.01208	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004076	NH3	0.00892	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005010	NH3	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005015	NH3	0.00003	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005020	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005025	NH3	0.00002	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005030	NH3	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005035	NH3	0.00006	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005040	NH3	0.00014	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005045	NH3	0.00003	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005055	NH3	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005060	NH3	0.00005	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006005	NH3	0.32004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006010	NH3	0.07752	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006015	NH3	0.04188	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006025	NH3	0.09180	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006030	NH3	0.13905	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006035	NH3	0.00670	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007010	NH3	0.00010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007015	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265008005	NH3	0.00376	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265010010	NH3	0.00832	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267001060	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002003	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002015	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002021	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002024	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002030	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002033	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002039	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002045	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002054	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002057	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002060	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002066	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002072	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002081	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003010	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003020	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003030	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003040	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003050	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003070	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267004066	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005055	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005060	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006005	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006010	NH3	0.00000	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2267006015	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006025	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006030	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006035	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267008005	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268002081	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003020	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003030	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003040	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003060	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003070	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005055	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005060	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006005	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006010	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006015	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006020	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006035	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268010010	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270001060	NH3	0.00081	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002003	NH3	0.03045	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002006	NH3	0.00012	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002009	NH3	0.00082	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002015	NH3	0.07623	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002018	NH3	0.08287	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002021	NH3	0.00458	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002024	NH3	0.00283	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002027	NH3	0.00843	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002030	NH3	0.03616	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002033	NH3	0.03114	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002036	NH3	0.30892	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002039	NH3	0.00256	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002042	NH3	0.00122	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002045	NH3	0.07051	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002048	NH3	0.07688	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002051	NH3	0.26402	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002054	NH3	0.01246	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002057	NH3	0.09891	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002060	NH3	0.33629	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002066	NH3	0.20454	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002069	NH3	0.30766	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002072	NH3	0.14042	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002075	NH3	0.03314	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002078	NH3	0.00043	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002081	NH3	0.03173	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003010	NH3	0.00732	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003020	NH3	0.10571	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003030	NH3	0.04616	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003040	NH3	0.04686	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003050	NH3	0.00181	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003060	NH3	0.18481	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270003070	NH3	0.06660	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004031	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004036	NH3	0.00125	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004046	NH3	0.03312	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004056	NH3	0.00684	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004066	NH3	0.04506	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004071	NH3	0.00531	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004076	NH3	0.00013	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005010	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005015	NH3	0.01365	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005020	NH3	0.00123	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005025	NH3	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005030	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005035	NH3	0.00010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005040	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005045	NH3	0.00010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005055	NH3	0.00027	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005060	NH3	0.00020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006005	NH3	0.15108	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006010	NH3	0.03564	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006015	NH3	0.09877	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006020	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006025	NH3	0.05036	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006030	NH3	0.00483	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006035	NH3	0.00428	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007010	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007015	NH3	0.00086	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270008005	NH3	0.14147	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270009010	NH3	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270010010	NH3	0.01750	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282005010	NH3	0.06576	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282005015	NH3	0.02417	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282010005	NH3	0.03339	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020005	NH3	0.01771	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020010	NH3	0.00008	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285002015	NH3	0.00389	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285004015	NH3	0.00028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285006015	NH3	0.00000	ANNUAL	2012	MACPROJNRM
			TOTAL NH3	5.54094			
			LIB-CLN NH3	0.09338			
42003	Allegheny	2260001010	NOX	0.43680	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001020	NOX	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001030	NOX	0.62426	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001060	NOX	0.20846	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002006	NOX	0.18873	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002009	NOX	0.01261	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002021	NOX	0.01510	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002027	NOX	0.00011	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002039	NOX	0.49608	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002054	NOX	0.00297	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2260003030	NOX	0.00336	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003040	NOX	0.00027	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004015	NOX	0.07739	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004016	NOX	0.22437	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004020	NOX	1.07620	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004021	NOX	2.49280	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004025	NOX	1.50460	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004026	NOX	2.18210	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004030	NOX	0.96191	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004031	NOX	2.02300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004035	NOX	0.10587	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004036	NOX	0.14668	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004071	NOX	0.00094	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260005035	NOX	0.00031	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006005	NOX	0.16287	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006010	NOX	1.10860	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006015	NOX	0.00043	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006035	NOX	0.00669	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260007005	NOX	0.00448	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001010	NOX	0.45319	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001030	NOX	3.99410	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001050	NOX	12.84200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001060	NOX	0.27205	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002003	NOX	0.43654	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002006	NOX	0.00305	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002009	NOX	0.55983	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002015	NOX	0.69737	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002021	NOX	1.32380	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002024	NOX	0.55836	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002027	NOX	0.02579	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002030	NOX	1.29140	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002033	NOX	0.46408	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002039	NOX	2.55550	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002042	NOX	1.15840	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002045	NOX	0.21362	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002054	NOX	0.17699	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002057	NOX	0.26604	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002060	NOX	0.38728	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002066	NOX	0.86272	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002072	NOX	0.92722	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002078	NOX	0.20289	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002081	NOX	0.33289	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003010	NOX	2.39360	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003020	NOX	4.19570	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003030	NOX	0.67895	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003040	NOX	1.09630	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003050	NOX	0.15229	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003060	NOX	0.03684	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003070	NOX	0.14947	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004010	NOX	20.52400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004011	NOX	8.09300	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265004015	NOX	1.72270	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004016	NOX	4.46470	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004025	NOX	0.10258	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004026	NOX	0.24947	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004030	NOX	0.19563	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004031	NOX	15.19300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004035	NOX	4.08850	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004036	NOX	5.66440	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004040	NOX	6.09760	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004041	NOX	1.58150	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004046	NOX	1.89290	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004051	NOX	0.53743	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004055	NOX	81.82600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004056	NOX	21.50900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004066	NOX	3.46380	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004071	NOX	60.86100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004075	NOX	2.45450	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004076	NOX	1.82810	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005010	NOX	0.00168	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005015	NOX	0.00715	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005020	NOX	0.00013	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005025	NOX	0.01227	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005030	NOX	0.00141	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005035	NOX	0.02134	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005040	NOX	0.03078	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005045	NOX	0.01944	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005055	NOX	0.02358	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005060	NOX	0.00908	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006005	NOX	78.03800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006010	NOX	18.64400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006015	NOX	10.88400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006025	NOX	24.43800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006030	NOX	30.09300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006035	NOX	1.59520	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007010	NOX	0.02582	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007015	NOX	0.00021	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265008005	NOX	0.87535	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265010010	NOX	2.05180	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267001060	NOX	0.06849	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002003	NOX	0.15146	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002015	NOX	0.13824	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002021	NOX	0.06738	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002024	NOX	0.02265	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002030	NOX	0.48901	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002033	NOX	0.32756	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002039	NOX	0.16388	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002045	NOX	0.27367	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002054	NOX	0.04382	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002057	NOX	0.36055	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002060	NOX	0.53004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002066	NOX	0.04396	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2267002072	NOX	0.89148	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002081	NOX	0.43533	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003010	NOX	5.58870	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003020	NOX	230.47000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003030	NOX	1.17870	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003040	NOX	0.44468	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003050	NOX	0.28911	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003070	NOX	0.45437	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267004066	NOX	1.62940	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005055	NOX	0.00033	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005060	NOX	0.00007	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006005	NOX	34.97800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006010	NOX	5.76660	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006015	NOX	5.30710	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006025	NOX	6.99930	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006030	NOX	0.13697	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006035	NOX	0.06468	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267008005	NOX	1.04650	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268002081	NOX	0.01721	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003020	NOX	16.45800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003030	NOX	0.01918	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003040	NOX	0.01163	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003060	NOX	0.03825	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003070	NOX	0.03186	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005055	NOX	0.00017	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005060	NOX	0.00046	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006005	NOX	10.70500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006010	NOX	0.43188	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006015	NOX	0.41511	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006020	NOX	3.81870	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006035	NOX	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268010010	NOX	0.88430	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270001060	NOX	0.93385	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002003	NOX	23.43900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002006	NOX	0.05631	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002009	NOX	0.89415	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002015	NOX	62.95700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002018	NOX	65.31500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002021	NOX	4.01680	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002024	NOX	3.00120	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002027	NOX	8.73580	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002030	NOX	33.50500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002033	NOX	38.99000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002036	NOX	212.64000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002039	NOX	2.37350	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002042	NOX	1.53610	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002045	NOX	62.15700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002048	NOX	52.75500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002051	NOX	209.31000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002054	NOX	11.76000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002057	NOX	85.94900	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270002060	NOX	294.41000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002066	NOX	213.96000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002069	NOX	244.12000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002072	NOX	150.48000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002075	NOX	32.73700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002078	NOX	0.49168	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002081	NOX	32.12300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003010	NOX	8.34270	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003020	NOX	66.21000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003030	NOX	36.01800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003040	NOX	41.97800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003050	NOX	2.21390	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003060	NOX	158.55000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003070	NOX	40.81300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004031	NOX	0.00618	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004036	NOX	1.42520	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004046	NOX	34.70900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004056	NOX	6.91350	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004066	NOX	50.58300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004071	NOX	4.75040	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004076	NOX	0.13851	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005010	NOX	0.00029	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005015	NOX	14.21600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005020	NOX	1.50320	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005025	NOX	0.00760	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005030	NOX	0.00146	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005035	NOX	0.11885	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005040	NOX	0.00019	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005045	NOX	0.11152	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005055	NOX	0.30249	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005060	NOX	0.18881	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006005	NOX	174.53000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006010	NOX	41.03500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006015	NOX	92.38700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006020	NOX	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006025	NOX	52.86200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006030	NOX	5.80210	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006035	NOX	4.05990	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007010	NOX	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007015	NOX	0.53898	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270008005	NOX	118.63000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270009010	NOX	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270010010	NOX	17.27500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2275001000	NOx	122.15970	ANNUAL	2012	MACPROJ
42003	Allegheny	2275020000	NOX	1210.13636	ANNUAL	2012	MACPROJ
42003	Allegheny	2275050000	NOx	96.97923	ANNUAL	2012	MACPROJ
42003	Allegheny	2275060000	NOx	156.42370	ANNUAL	2012	MACPROJ
42003	Allegheny	2275070000	NOx	35.77453	ANNUAL	2012	MACPROJ
42003	Allegheny	2280002000	NOx	2951.62858	ANNUAL	2012	MACPROJ
42003	Allegheny	2282005010	NOX	15.63300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282005015	NOX	5.05300	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2282010005	NOX	22.99100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020005	NOX	24.80300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020010	NOX	0.08827	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285002006	NOx	1144.13630	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002007	NOx	543.92740	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002008	NOx	44.84569	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002010	NOx	31.16936	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002015	NOX	4.46460	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285004015	NOX	0.06947	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285006015	NOX	0.00654	ANNUAL	2012	MACPROJNRM
			TOTAL NOx	10028.24998			
			LIB-CLN NOx	169.00610			
42003	Allegheny	2260001010	PM10-PRI	3.58310	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001020	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001030	PM10-PRI	3.93820	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001060	PM10-PRI	0.00972	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002006	PM10-PRI	1.87230	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002009	PM10-PRI	0.06614	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002021	PM10-PRI	0.07972	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002027	PM10-PRI	0.00061	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002039	PM10-PRI	4.88090	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002054	PM10-PRI	0.01626	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003030	PM10-PRI	0.01840	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003040	PM10-PRI	0.00147	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004015	PM10-PRI	0.39853	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004016	PM10-PRI	1.14660	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004020	PM10-PRI	5.44560	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004021	PM10-PRI	23.61200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004025	PM10-PRI	7.85850	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004026	PM10-PRI	12.32700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004030	PM10-PRI	4.92030	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004031	PM10-PRI	14.01600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004035	PM10-PRI	3.06940	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004036	PM10-PRI	4.25230	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004071	PM10-PRI	0.00488	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260005035	PM10-PRI	0.00167	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006005	PM10-PRI	0.85141	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006010	PM10-PRI	6.29770	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006015	PM10-PRI	0.00236	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006035	PM10-PRI	0.03660	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260007005	PM10-PRI	0.04671	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001010	PM10-PRI	0.06825	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001030	PM10-PRI	0.67875	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001050	PM10-PRI	0.49274	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001060	PM10-PRI	0.00825	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002003	PM10-PRI	0.01377	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002006	PM10-PRI	0.00010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002009	PM10-PRI	0.02742	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002015	PM10-PRI	0.02502	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002021	PM10-PRI	0.04879	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265002024	PM10-PRI	0.02165	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002027	PM10-PRI	0.00116	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002030	PM10-PRI	0.04411	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002033	PM10-PRI	0.01517	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002039	PM10-PRI	0.09540	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002042	PM10-PRI	0.04372	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002045	PM10-PRI	0.00291	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002054	PM10-PRI	0.00600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002057	PM10-PRI	0.00448	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002060	PM10-PRI	0.01097	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002066	PM10-PRI	0.02989	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002072	PM10-PRI	0.01817	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002078	PM10-PRI	0.00657	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002081	PM10-PRI	0.00382	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003010	PM10-PRI	0.02723	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003020	PM10-PRI	0.08590	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003030	PM10-PRI	0.02374	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003040	PM10-PRI	0.05046	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003050	PM10-PRI	0.00194	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003060	PM10-PRI	0.00123	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003070	PM10-PRI	0.00886	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004010	PM10-PRI	1.41100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004011	PM10-PRI	0.57796	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004015	PM10-PRI	0.11987	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004016	PM10-PRI	0.30286	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004025	PM10-PRI	0.00700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004026	PM10-PRI	0.01265	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004030	PM10-PRI	0.01339	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004031	PM10-PRI	0.48161	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004035	PM10-PRI	0.09362	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004036	PM10-PRI	0.12969	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004040	PM10-PRI	0.20683	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004041	PM10-PRI	0.05587	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004046	PM10-PRI	0.06243	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004051	PM10-PRI	0.03658	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004055	PM10-PRI	2.77510	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004056	PM10-PRI	0.75921	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004066	PM10-PRI	0.12566	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004071	PM10-PRI	2.51070	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004075	PM10-PRI	0.11778	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004076	PM10-PRI	0.08681	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005010	PM10-PRI	0.00006	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005015	PM10-PRI	0.00021	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005020	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005025	PM10-PRI	0.00013	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005030	PM10-PRI	0.00005	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005035	PM10-PRI	0.00052	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005040	PM10-PRI	0.00101	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005045	PM10-PRI	0.00020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005055	PM10-PRI	0.00031	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005060	PM10-PRI	0.00037	ANNUAL	2012	MACPROJNRM

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42003	Allegheny	2265006005	PM10-PRI	2.60890	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006010	PM10-PRI	0.69836	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006015	PM10-PRI	0.36661	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006025	PM10-PRI	0.76936	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006030	PM10-PRI	1.23800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006035	PM10-PRI	0.05870	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007010	PM10-PRI	0.00079	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007015	PM10-PRI	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265008005	PM10-PRI	0.03065	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265010010	PM10-PRI	0.07514	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267001060	PM10-PRI	0.00047	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002003	PM10-PRI	0.00239	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002015	PM10-PRI	0.00405	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002021	PM10-PRI	0.00063	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002024	PM10-PRI	0.00041	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002030	PM10-PRI	0.00731	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002033	PM10-PRI	0.00237	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002039	PM10-PRI	0.00708	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002045	PM10-PRI	0.00256	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002054	PM10-PRI	0.00043	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002057	PM10-PRI	0.00464	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002060	PM10-PRI	0.01160	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002066	PM10-PRI	0.00124	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002072	PM10-PRI	0.00950	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002081	PM10-PRI	0.00381	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003010	PM10-PRI	0.05312	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003020	PM10-PRI	5.05680	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003030	PM10-PRI	0.03893	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003040	PM10-PRI	0.01183	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003050	PM10-PRI	0.00287	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003070	PM10-PRI	0.02382	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267004066	PM10-PRI	0.04020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005055	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005060	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006005	PM10-PRI	0.29015	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006010	PM10-PRI	0.06832	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006015	PM10-PRI	0.08301	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006025	PM10-PRI	0.10334	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006030	PM10-PRI	0.00135	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006035	PM10-PRI	0.00129	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267008005	PM10-PRI	0.02621	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268002081	PM10-PRI	0.00015	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003020	PM10-PRI	0.35266	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003030	PM10-PRI	0.00042	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003040	PM10-PRI	0.00028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003060	PM10-PRI	0.00094	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003070	PM10-PRI	0.00161	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005055	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005060	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006005	PM10-PRI	0.08055	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006010	PM10-PRI	0.00407	ANNUAL	2012	MACPROJNRM

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42003	Allegheny	2268006015	PM10-PRI	0.00586	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006020	PM10-PRI	0.23506	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006035	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268010010	PM10-PRI	0.05342	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270001060	PM10-PRI	0.12874	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002003	PM10-PRI	1.87370	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002006	PM10-PRI	0.00503	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002009	PM10-PRI	0.08620	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002015	PM10-PRI	5.40690	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002018	PM10-PRI	3.74450	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002021	PM10-PRI	0.34499	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002024	PM10-PRI	0.22928	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002027	PM10-PRI	0.68798	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002030	PM10-PRI	3.08620	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002033	PM10-PRI	2.28150	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002036	PM10-PRI	16.42900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002039	PM10-PRI	0.23586	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002042	PM10-PRI	0.11992	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002045	PM10-PRI	2.90130	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002048	PM10-PRI	3.76830	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002051	PM10-PRI	10.15900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002054	PM10-PRI	0.63711	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002057	PM10-PRI	8.58450	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002060	PM10-PRI	18.90300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002066	PM10-PRI	32.25600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002069	PM10-PRI	15.77900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002072	PM10-PRI	26.44800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002075	PM10-PRI	1.71820	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002078	PM10-PRI	0.08380	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002081	PM10-PRI	2.07920	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003010	PM10-PRI	1.32820	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003020	PM10-PRI	7.39510	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003030	PM10-PRI	2.37300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003040	PM10-PRI	2.60880	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003050	PM10-PRI	0.24730	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003060	PM10-PRI	11.35900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003070	PM10-PRI	3.50720	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004031	PM10-PRI	0.00057	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004036	PM10-PRI	0.07035	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004046	PM10-PRI	2.85350	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004056	PM10-PRI	0.54169	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004066	PM10-PRI	3.47950	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004071	PM10-PRI	0.32447	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004076	PM10-PRI	0.01285	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005010	PM10-PRI	0.00003	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005015	PM10-PRI	1.20730	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005020	PM10-PRI	0.12804	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005025	PM10-PRI	0.00087	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005030	PM10-PRI	0.00020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005035	PM10-PRI	0.01029	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005040	PM10-PRI	0.00001	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270005045	PM10-PRI	0.01302	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005055	PM10-PRI	0.02751	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005060	PM10-PRI	0.01386	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006005	PM10-PRI	14.35000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006010	PM10-PRI	3.49020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006015	PM10-PRI	7.07160	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006020	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006025	PM10-PRI	9.07720	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006030	PM10-PRI	0.39366	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006035	PM10-PRI	0.31545	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007010	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007015	PM10-PRI	0.04307	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270008005	PM10-PRI	8.33690	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270009010	PM10-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270010010	PM10-PRI	0.70710	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2275001000	PM10-PRI	466.47630	ANNUAL	2012	MACPROJ
42003	Allegheny	2275020000	PM10-PRI	70.18781	ANNUAL	2012	MACPROJ
42003	Allegheny	2275050000	PM10-PRI	0.00000	ANNUAL	2012	MACPROJ
42003	Allegheny	2275060000	PM10-PRI	597.38249	ANNUAL	2012	MACPROJ
42003	Allegheny	2275070000	PM10-PRI	0.00000	ANNUAL	2012	MACPROJ
42003	Allegheny	2280002000	PM10-PRI	94.87934	ANNUAL	2012	MACPROJ
42003	Allegheny	2282005010	PM10-PRI	4.61120	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282005015	PM10-PRI	1.36360	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282010005	PM10-PRI	0.19934	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020005	PM10-PRI	0.41931	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020010	PM10-PRI	0.00898	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285002006	PM10-PRI	34.22842	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002007	PM10-PRI	14.32480	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002008	PM10-PRI	1.25600	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002010	PM10-PRI	0.83732	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002015	PM10-PRI	0.53254	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285004015	PM10-PRI	0.00231	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285006015	PM10-PRI	0.00007	ANNUAL	2012	MACPROJNRM
			TOTAL PM10	1648.92642			
			LIB-CLN PM10	27.78936			
42003	Allegheny	2260001010	PM25-PRI	3.29650	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001020	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001030	PM25-PRI	3.62320	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001060	PM25-PRI	0.00894	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002006	PM25-PRI	1.72250	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002009	PM25-PRI	0.06085	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002021	PM25-PRI	0.07334	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002027	PM25-PRI	0.00056	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002039	PM25-PRI	4.49050	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002054	PM25-PRI	0.01496	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003030	PM25-PRI	0.01693	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003040	PM25-PRI	0.00135	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004015	PM25-PRI	0.36665	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004016	PM25-PRI	1.05480	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004020	PM25-PRI	5.01000	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2260004021	PM25-PRI	21.72300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004025	PM25-PRI	7.22990	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004026	PM25-PRI	11.34000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004030	PM25-PRI	4.52670	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004031	PM25-PRI	12.89400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004035	PM25-PRI	2.82380	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004036	PM25-PRI	3.91210	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004071	PM25-PRI	0.00449	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260005035	PM25-PRI	0.00154	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006005	PM25-PRI	0.78330	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006010	PM25-PRI	5.79390	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006015	PM25-PRI	0.00217	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006035	PM25-PRI	0.03367	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260007005	PM25-PRI	0.04297	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001010	PM25-PRI	0.06279	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001030	PM25-PRI	0.62445	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001050	PM25-PRI	0.45332	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001060	PM25-PRI	0.00759	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002003	PM25-PRI	0.01267	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002006	PM25-PRI	0.00009	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002009	PM25-PRI	0.02523	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002015	PM25-PRI	0.02302	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002021	PM25-PRI	0.04488	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002024	PM25-PRI	0.01992	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002027	PM25-PRI	0.00107	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002030	PM25-PRI	0.04058	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002033	PM25-PRI	0.01395	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002039	PM25-PRI	0.08777	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002042	PM25-PRI	0.04022	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002045	PM25-PRI	0.00268	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002054	PM25-PRI	0.00552	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002057	PM25-PRI	0.00412	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002060	PM25-PRI	0.01010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002066	PM25-PRI	0.02750	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002072	PM25-PRI	0.01672	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002078	PM25-PRI	0.00605	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002081	PM25-PRI	0.00351	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003010	PM25-PRI	0.02505	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003020	PM25-PRI	0.07903	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003030	PM25-PRI	0.02184	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003040	PM25-PRI	0.04643	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003050	PM25-PRI	0.00178	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003060	PM25-PRI	0.00113	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003070	PM25-PRI	0.00815	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004010	PM25-PRI	1.29810	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004011	PM25-PRI	0.53173	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004015	PM25-PRI	0.11028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004016	PM25-PRI	0.27863	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004025	PM25-PRI	0.00644	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004026	PM25-PRI	0.01164	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004030	PM25-PRI	0.01231	ANNUAL	2012	MACPROJNRM

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42003	Allegheny	2265004031	PM25-PRI	0.44308	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004035	PM25-PRI	0.08613	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004036	PM25-PRI	0.11931	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004040	PM25-PRI	0.19029	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004041	PM25-PRI	0.05140	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004046	PM25-PRI	0.05744	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004051	PM25-PRI	0.03365	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004055	PM25-PRI	2.55310	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004056	PM25-PRI	0.69848	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004066	PM25-PRI	0.11561	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004071	PM25-PRI	2.30980	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004075	PM25-PRI	0.10836	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004076	PM25-PRI	0.07987	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005010	PM25-PRI	0.00006	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005015	PM25-PRI	0.00020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005020	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005025	PM25-PRI	0.00012	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005030	PM25-PRI	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005035	PM25-PRI	0.00048	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005040	PM25-PRI	0.00093	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005045	PM25-PRI	0.00018	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005055	PM25-PRI	0.00028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005060	PM25-PRI	0.00034	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006005	PM25-PRI	2.40010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006010	PM25-PRI	0.64249	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006015	PM25-PRI	0.33728	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006025	PM25-PRI	0.70781	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006030	PM25-PRI	1.13900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006035	PM25-PRI	0.05400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007010	PM25-PRI	0.00073	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007015	PM25-PRI	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265008005	PM25-PRI	0.02820	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265010010	PM25-PRI	0.06913	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267001060	PM25-PRI	0.00047	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002003	PM25-PRI	0.00239	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002015	PM25-PRI	0.00405	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002021	PM25-PRI	0.00063	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002024	PM25-PRI	0.00041	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002030	PM25-PRI	0.00731	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002033	PM25-PRI	0.00237	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002039	PM25-PRI	0.00708	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002045	PM25-PRI	0.00256	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002054	PM25-PRI	0.00043	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002057	PM25-PRI	0.00464	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002060	PM25-PRI	0.01160	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002066	PM25-PRI	0.00124	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002072	PM25-PRI	0.00950	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002081	PM25-PRI	0.00381	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003010	PM25-PRI	0.05312	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003020	PM25-PRI	5.05680	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003030	PM25-PRI	0.03893	ANNUAL	2012	MACPROJNRM

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42003	Allegheny	2267003040	PM25-PRI	0.01183	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003050	PM25-PRI	0.00287	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003070	PM25-PRI	0.02382	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267004066	PM25-PRI	0.04020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005055	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005060	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006005	PM25-PRI	0.29015	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006010	PM25-PRI	0.06832	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006015	PM25-PRI	0.08301	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006025	PM25-PRI	0.10334	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006030	PM25-PRI	0.00135	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006035	PM25-PRI	0.00129	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267008005	PM25-PRI	0.02621	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268002081	PM25-PRI	0.00015	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003020	PM25-PRI	0.35266	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003030	PM25-PRI	0.00042	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003040	PM25-PRI	0.00028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003060	PM25-PRI	0.00094	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003070	PM25-PRI	0.00161	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005055	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005060	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006005	PM25-PRI	0.08055	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006010	PM25-PRI	0.00407	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006015	PM25-PRI	0.00586	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006020	PM25-PRI	0.23506	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006035	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268010010	PM25-PRI	0.05342	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270001060	PM25-PRI	0.11844	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002003	PM25-PRI	1.72380	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002006	PM25-PRI	0.00463	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002009	PM25-PRI	0.07930	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002015	PM25-PRI	4.97430	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002018	PM25-PRI	3.44500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002021	PM25-PRI	0.31739	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002024	PM25-PRI	0.21094	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002027	PM25-PRI	0.63294	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002030	PM25-PRI	2.83930	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002033	PM25-PRI	2.09900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002036	PM25-PRI	15.11500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002039	PM25-PRI	0.21699	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002042	PM25-PRI	0.11033	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002045	PM25-PRI	2.66920	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002048	PM25-PRI	3.46690	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002051	PM25-PRI	9.34600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002054	PM25-PRI	0.58614	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002057	PM25-PRI	7.89770	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002060	PM25-PRI	17.39100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002066	PM25-PRI	29.67500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002069	PM25-PRI	14.51700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002072	PM25-PRI	24.33200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002075	PM25-PRI	1.58080	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270002078	PM25-PRI	0.07709	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002081	PM25-PRI	1.91280	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003010	PM25-PRI	1.22200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003020	PM25-PRI	6.80350	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003030	PM25-PRI	2.18320	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003040	PM25-PRI	2.40010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003050	PM25-PRI	0.22751	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003060	PM25-PRI	10.45100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003070	PM25-PRI	3.22660	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004031	PM25-PRI	0.00052	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004036	PM25-PRI	0.06472	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004046	PM25-PRI	2.62520	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004056	PM25-PRI	0.49835	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004066	PM25-PRI	3.20110	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004071	PM25-PRI	0.29851	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004076	PM25-PRI	0.01183	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005010	PM25-PRI	0.00003	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005015	PM25-PRI	1.11070	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005020	PM25-PRI	0.11780	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005025	PM25-PRI	0.00080	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005030	PM25-PRI	0.00019	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005035	PM25-PRI	0.00947	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005040	PM25-PRI	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005045	PM25-PRI	0.01198	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005055	PM25-PRI	0.02531	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005060	PM25-PRI	0.01275	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006005	PM25-PRI	13.20200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006010	PM25-PRI	3.21090	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006015	PM25-PRI	6.50580	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006020	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006025	PM25-PRI	8.35100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006030	PM25-PRI	0.36216	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006035	PM25-PRI	0.29022	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007010	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007015	PM25-PRI	0.03962	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270008005	PM25-PRI	7.66990	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270009010	PM25-PRI	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270010010	PM25-PRI	0.65053	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2275001000	PM25-PRI	321.86679	ANNUAL	2012	MACPROJ
42003	Allegheny	2275020000	PM25-PRI	68.50328	ANNUAL	2012	MACPROJ
42003	Allegheny	2275050000	PM25-PRI	0.00000	ANNUAL	2012	MACPROJ
42003	Allegheny	2275060000	PM25-PRI	412.19388	ANNUAL	2012	MACPROJ
42003	Allegheny	2275070000	PM25-PRI	0.00000	ANNUAL	2012	MACPROJ
42003	Allegheny	2280002000	PM25-PRI	87.28891	ANNUAL	2012	MACPROJ
42003	Allegheny	2282005010	PM25-PRI	4.24230	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282005015	PM25-PRI	1.25450	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282010005	PM25-PRI	0.18339	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020005	PM25-PRI	0.38576	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020010	PM25-PRI	0.00826	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285002006	PM25-PRI	30.80557	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002007	PM25-PRI	12.89183	ANNUAL	2012	MACPROJ

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2285002008	PM25-PRI	1.13042	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002010	PM25-PRI	0.75359	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002015	PM25-PRI	0.48994	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285004015	PM25-PRI	0.00212	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285006015	PM25-PRI	0.00007	ANNUAL	2012	MACPROJNRM
			TOTAL PM2.5	1275.76641			
			LIB-CLN PM2.5	21.50049			
42003	Allegheny	2260001010	SO2	0.00818	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001020	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001030	SO2	0.00888	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001060	SO2	0.00190	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002006	SO2	0.00254	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002009	SO2	0.00017	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002021	SO2	0.00020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002027	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002039	SO2	0.00657	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002054	SO2	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003030	SO2	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003040	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004015	SO2	0.00104	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004016	SO2	0.00298	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004020	SO2	0.01427	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004021	SO2	0.03294	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004025	SO2	0.01982	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004026	SO2	0.02888	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004030	SO2	0.01276	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004031	SO2	0.02694	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004035	SO2	0.00312	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004036	SO2	0.00432	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004071	SO2	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260005035	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006005	SO2	0.00214	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006010	SO2	0.01433	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006015	SO2	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006035	SO2	0.00009	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260007005	SO2	0.00006	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001010	SO2	0.00414	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001030	SO2	0.04382	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001050	SO2	0.07453	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001060	SO2	0.00138	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002003	SO2	0.00228	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002006	SO2	0.00002	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002009	SO2	0.00395	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002015	SO2	0.00402	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002021	SO2	0.00780	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002024	SO2	0.00330	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002027	SO2	0.00017	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002030	SO2	0.00694	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002033	SO2	0.00225	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002039	SO2	0.01473	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265002042	SO2	0.00689	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002045	SO2	0.00057	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002054	SO2	0.00094	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002057	SO2	0.00088	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002060	SO2	0.00206	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002066	SO2	0.00484	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002072	SO2	0.00336	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002078	SO2	0.00109	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002081	SO2	0.00078	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003010	SO2	0.00524	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003020	SO2	0.01602	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003030	SO2	0.00398	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003040	SO2	0.00699	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003050	SO2	0.00037	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003060	SO2	0.00020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003070	SO2	0.00159	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004010	SO2	0.16242	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004011	SO2	0.07444	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004015	SO2	0.01363	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004016	SO2	0.03865	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004025	SO2	0.00089	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004026	SO2	0.00183	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004030	SO2	0.00170	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004031	SO2	0.08080	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004035	SO2	0.02020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004036	SO2	0.02798	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004040	SO2	0.03582	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004041	SO2	0.00932	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004046	SO2	0.01071	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004051	SO2	0.00447	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004055	SO2	0.48031	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004056	SO2	0.12674	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004066	SO2	0.02131	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004071	SO2	0.40046	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004075	SO2	0.01626	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004076	SO2	0.01200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005010	SO2	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005015	SO2	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005020	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005025	SO2	0.00003	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005030	SO2	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005035	SO2	0.00009	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005040	SO2	0.00019	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005045	SO2	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005055	SO2	0.00006	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005060	SO2	0.00007	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006005	SO2	0.43773	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006010	SO2	0.10549	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006015	SO2	0.05731	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006025	SO2	0.12590	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006030	SO2	0.18905	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265006035	SO2	0.00915	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007010	SO2	0.00014	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007015	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265008005	SO2	0.00521	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265010010	SO2	0.01137	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267001060	SO2	0.00010	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002003	SO2	0.00046	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002015	SO2	0.00076	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002021	SO2	0.00013	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002024	SO2	0.00008	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002030	SO2	0.00143	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002033	SO2	0.00051	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002039	SO2	0.00130	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002045	SO2	0.00053	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002054	SO2	0.00009	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002057	SO2	0.00092	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002060	SO2	0.00220	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002066	SO2	0.00023	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002072	SO2	0.00192	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002081	SO2	0.00079	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003010	SO2	0.01095	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003020	SO2	0.95946	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003030	SO2	0.00723	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003040	SO2	0.00222	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003050	SO2	0.00059	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003070	SO2	0.00437	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267004066	SO2	0.00758	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005055	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005060	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006005	SO2	0.06218	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006010	SO2	0.01390	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006015	SO2	0.01635	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006025	SO2	0.02033	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006030	SO2	0.00028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006035	SO2	0.00025	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267008005	SO2	0.00496	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268002081	SO2	0.00003	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003020	SO2	0.06370	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003030	SO2	0.00008	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003040	SO2	0.00005	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003060	SO2	0.00017	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003070	SO2	0.00029	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005055	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005060	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006005	SO2	0.01598	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006010	SO2	0.00079	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006015	SO2	0.00110	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006020	SO2	0.03941	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006035	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268010010	SO2	0.00939	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270001060	SO2	0.00186	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270002003	SO2	0.06853	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002006	SO2	0.00029	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002009	SO2	0.00191	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002015	SO2	0.17293	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002018	SO2	0.18394	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002021	SO2	0.01044	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002024	SO2	0.00645	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002027	SO2	0.01967	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002030	SO2	0.08333	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002033	SO2	0.07109	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002036	SO2	0.68251	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002039	SO2	0.00592	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002042	SO2	0.00280	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002045	SO2	0.15808	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002048	SO2	0.16939	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002051	SO2	0.56917	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002054	SO2	0.02828	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002057	SO2	0.22556	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002060	SO2	0.75354	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002066	SO2	0.46937	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002069	SO2	0.68360	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002072	SO2	0.32501	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002075	SO2	0.07395	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002078	SO2	0.00100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002081	SO2	0.07164	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003010	SO2	0.01698	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003020	SO2	0.23563	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003030	SO2	0.10423	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003040	SO2	0.10629	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003050	SO2	0.00414	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003060	SO2	0.43231	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003070	SO2	0.14511	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004031	SO2	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004036	SO2	0.00282	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004046	SO2	0.07730	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004056	SO2	0.01595	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004066	SO2	0.10281	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004071	SO2	0.01222	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004076	SO2	0.00029	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005010	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005015	SO2	0.03112	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005020	SO2	0.00280	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005025	SO2	0.00002	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005030	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005035	SO2	0.00024	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005040	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005045	SO2	0.00022	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005055	SO2	0.00061	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005060	SO2	0.00045	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006005	SO2	0.34863	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006010	SO2	0.08224	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270006015	SO2	0.22626	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006020	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006025	SO2	0.11683	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006030	SO2	0.01112	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006035	SO2	0.00987	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007010	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007015	SO2	0.00188	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270008005	SO2	0.31791	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270009010	SO2	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270010010	SO2	0.03926	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2275001000	SO2	0.00000	ANNUAL	2012	MACPROJ
42003	Allegheny	2275020000	SO2	115.38416	ANNUAL	2012	MACPROJ
42003	Allegheny	2275050000	SO2	14.93596	ANNUAL	2012	MACPROJ
42003	Allegheny	2275060000	SO2	14.86027	ANNUAL	2012	MACPROJ
42003	Allegheny	2275070000	SO2	5.54425	ANNUAL	2012	MACPROJ
42003	Allegheny	2280002000	SO2	6.69477	ANNUAL	2012	MACPROJ
42003	Allegheny	2282005010	SO2	0.07815	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282005015	SO2	0.02981	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282010005	SO2	0.04600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020005	SO2	0.04678	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020010	SO2	0.00020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285002006	SO2	7.39668	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002007	SO2	3.09462	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002008	SO2	0.27143	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002010	SO2	0.18094	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002015	SO2	0.00889	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285004015	SO2	0.00038	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285006015	SO2	0.00001	ANNUAL	2012	MACPROJNRM
			TOTAL SO2	180.01130			
			LIB-CLN SO2	3.03373			
42003	Allegheny	2260001010	VOC	99.07000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001020	VOC	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001030	VOC	111.84000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260001060	VOC	1.32420	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002006	VOC	12.74500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002009	VOC	0.46860	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002021	VOC	0.55653	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002027	VOC	0.00475	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002039	VOC	32.34200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260002054	VOC	0.11219	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003030	VOC	0.13556	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260003040	VOC	0.01041	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004015	VOC	3.89040	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004016	VOC	8.18100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004020	VOC	59.40300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004021	VOC	185.67000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004025	VOC	76.83000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004026	VOC	95.64800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004030	VOC	51.27400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004031	VOC	94.78200	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2260004035	VOC	104.42000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004036	VOC	124.44000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260004071	VOC	0.03113	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260005035	VOC	0.01115	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006005	VOC	6.01190	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006010	VOC	42.66100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006015	VOC	0.01628	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260006035	VOC	0.25227	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2260007005	VOC	0.33313	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001010	VOC	4.23850	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001030	VOC	47.15600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001050	VOC	47.79200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265001060	VOC	1.45770	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002003	VOC	1.12760	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002006	VOC	0.01049	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002009	VOC	3.38640	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002015	VOC	1.89910	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002021	VOC	5.57520	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002024	VOC	2.13720	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002027	VOC	0.13455	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002030	VOC	3.89530	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002033	VOC	2.04460	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002039	VOC	7.49230	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002042	VOC	6.03300	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002045	VOC	0.20813	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002054	VOC	0.56173	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002057	VOC	0.21586	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002060	VOC	0.29166	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002066	VOC	2.50330	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002072	VOC	1.42370	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002078	VOC	0.94200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265002081	VOC	0.26952	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003010	VOC	2.63920	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003020	VOC	3.14340	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003030	VOC	1.30580	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003040	VOC	5.27320	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003050	VOC	0.18314	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003060	VOC	0.12648	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265003070	VOC	0.10324	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004010	VOC	361.51000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004011	VOC	93.22000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004015	VOC	30.68600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004016	VOC	51.42500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004025	VOC	2.01050	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004026	VOC	2.01370	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004030	VOC	3.41090	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004031	VOC	48.12600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004035	VOC	46.27100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004036	VOC	24.21400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004040	VOC	42.50100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004041	VOC	5.31830	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2265004046	VOC	8.39850	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004051	VOC	6.57910	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004055	VOC	474.48000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004056	VOC	68.41500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004066	VOC	7.48560	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004071	VOC	216.37000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004075	VOC	19.38100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265004076	VOC	14.33500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005010	VOC	0.00550	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005015	VOC	0.00856	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005020	VOC	0.00012	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005025	VOC	0.01310	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005030	VOC	0.00510	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005035	VOC	0.06817	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005040	VOC	0.18440	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005045	VOC	0.01886	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005055	VOC	0.02908	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265005060	VOC	0.00920	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006005	VOC	337.72000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006010	VOC	80.18700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006015	VOC	34.41200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006025	VOC	72.35200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006030	VOC	153.12000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265006035	VOC	6.01900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007010	VOC	0.10565	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265007015	VOC	0.00120	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265008005	VOC	1.55580	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2265010010	VOC	5.82850	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267001060	VOC	0.01891	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002003	VOC	0.04107	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002015	VOC	0.03436	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002021	VOC	0.01871	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002024	VOC	0.00604	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002030	VOC	0.13372	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002033	VOC	0.09006	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002039	VOC	0.03479	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002045	VOC	0.07612	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002054	VOC	0.01220	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002057	VOC	0.10001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002060	VOC	0.14216	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002066	VOC	0.01119	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002072	VOC	0.24638	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267002081	VOC	0.12083	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003010	VOC	1.54370	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003020	VOC	61.70900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003030	VOC	0.28101	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003040	VOC	0.11385	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003050	VOC	0.08028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267003070	VOC	0.08493	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267004066	VOC	0.42535	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267005055	VOC	0.00009	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2267005060	VOC	0.00002	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006005	VOC	7.23930	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006010	VOC	1.18330	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006015	VOC	1.08210	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006025	VOC	1.92260	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006030	VOC	0.03764	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267006035	VOC	0.01279	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2267008005	VOC	0.27220	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268002081	VOC	0.00028	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003020	VOC	0.26049	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003030	VOC	0.00030	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003040	VOC	0.00018	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003060	VOC	0.00057	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268003070	VOC	0.00036	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005055	VOC	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268005060	VOC	0.00001	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006005	VOC	0.13173	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006010	VOC	0.00531	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006015	VOC	0.00505	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006020	VOC	0.03843	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268006035	VOC	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2268010010	VOC	0.00840	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270001060	VOC	0.23306	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002003	VOC	1.90940	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002006	VOC	0.00841	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002009	VOC	0.12801	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002015	VOC	5.21340	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002018	VOC	4.02630	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002021	VOC	0.35283	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002024	VOC	0.24055	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002027	VOC	0.99969	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002030	VOC	2.94900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002033	VOC	3.16960	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002036	VOC	16.40400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002039	VOC	0.21572	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002042	VOC	0.16945	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002045	VOC	4.25450	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002048	VOC	4.15930	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002051	VOC	13.57900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002054	VOC	0.82874	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002057	VOC	7.71720	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002060	VOC	20.90900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002066	VOC	42.48700	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002069	VOC	17.08600	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002072	VOC	37.50900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002075	VOC	2.10830	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002078	VOC	0.13144	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270002081	VOC	2.26450	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003010	VOC	2.16800	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003020	VOC	4.98070	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003030	VOC	2.86200	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
42003	Allegheny	2270003040	VOC	3.36500	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003050	VOC	0.39211	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003060	VOC	12.53000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270003070	VOC	3.32750	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004031	VOC	0.00099	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004036	VOC	0.11032	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004046	VOC	3.90160	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004056	VOC	0.83888	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004066	VOC	4.63380	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004071	VOC	0.37355	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270004076	VOC	0.01676	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005010	VOC	0.00004	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005015	VOC	1.27900	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005020	VOC	0.12956	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005025	VOC	0.00108	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005030	VOC	0.00019	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005035	VOC	0.01423	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005040	VOC	0.00002	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005045	VOC	0.01259	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005055	VOC	0.02962	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270005060	VOC	0.01683	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006005	VOC	20.08400	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006010	VOC	4.52680	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006015	VOC	8.09790	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006020	VOC	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006025	VOC	14.16200	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006030	VOC	0.67734	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270006035	VOC	0.36142	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007010	VOC	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270007015	VOC	0.04210	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270008005	VOC	8.62930	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270009010	VOC	0.00000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2270010010	VOC	1.08560	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2275001000	VOC	0.57279	ANNUAL	2012	MACPROJ
42003	Allegheny	2275020000	VOC	218.29364	ANNUAL	2012	MACPROJ
42003	Allegheny	2275050000	VOC	37.97565	ANNUAL	2012	MACPROJ
42003	Allegheny	2275060000	VOC	54.43693	ANNUAL	2012	MACPROJ
42003	Allegheny	2275070000	VOC	3.63484	ANNUAL	2012	MACPROJ
42003	Allegheny	2280002000	VOC	259.75502	ANNUAL	2012	MACPROJ
42003	Allegheny	2282005010	VOC	308.95000	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282005015	VOC	77.73100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282010005	VOC	34.09100	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020005	VOC	0.88054	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2282020010	VOC	0.01391	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285002006	VOC	66.53070	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002007	VOC	27.84435	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002008	VOC	2.44126	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002010	VOC	1.62753	ANNUAL	2012	MACPROJ
42003	Allegheny	2285002015	VOC	0.75769	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285004015	VOC	0.23020	ANNUAL	2012	MACPROJNRM
42003	Allegheny	2285006015	VOC	0.00182	ANNUAL	2012	MACPROJNRM

State/Co Code	County Name	SCC Code	Pollutant Code	Emission Tons	Period	Year	Data Source
			TOTAL VOC	4944.82755			
			LIB-CLN VOC	83.33518			

F-4: Mobile Sources

Liberty-Clairton Mobile Source Emissions Estimates, 2002

Appendix C-2-1.2

2002 Pittsburgh Liberty-Clairton Area Annual Emission Summary by Functional Class (Tons/Year)

Pittsburgh Liberty-Clairton Area

Area		Functional Class	VMT	Speed (mph)	$PM_{2.5}$	PM_{10}	VOC	CO	NOX	SO2	NH3
Rural											
	1	Interstate									
	2	Other Prin. Arterial									
	6	Minor Arterial									
	7	Major Collector									
	8	Minor Collector									
	9	Local									
		Rural Subtotal									
Small Urban											
	11	Interstate									
	12	Other Fwy/Ex									
	14	Prin. Arterial									
	16	Minor Arterial									
	17	Collector									
	19	Local									
		Small Urban Subtotal									
Urban											
	11	Interstate									
	12	Other Fwy/Ex									
	14	Prin. Arterial	24,243,088	32.3	0.87	1.30	30.87	518.82	51.26	2.22	2.55
	16	Minor Arterial	46,143,450	25.4	1.45	2.23	62.95	973.34	90.93	4.07	4.90
	17	Collector	23,134,101	19.5	0.79	1.19	34.53	499.00	49.50	2.07	2.45
	19	Local	38,587,800	31.3	1.80	2.51	72.49	770.89	91.74	3.72	3.97
		Urban Subtotal	132,108,439	26.5	4.92	7.23	200.84	2,762.05	283.42	12.08	13.87
		Region Total	132,108,439	26.5	4.92	7.23	200.84	2,762.05	283.42	12.08	13.87

Liberty-Clairton Mobile Source Emissions Estimates, 2009
(2009 used for future case)

Appendix C-2-2.2

2009 Pittsburgh Liberty-Clairton Area Annual Emission Summary by Functional Class (Tons/Year)

Pittsburgh Liberty-Clairton Area

Area	Functional Class	VMT	Speed (mph)	$PM_{2.5}$	PM_{10}	VOC	CO	NOX	SO2	NH3
Rural										
1	Interstate									
2	Other Prin. Arterial									
6	Minor Arterial									
7	Major Collector									
8	Minor Collector									
9	Local									
	Rural Subtotal									
Small Urban										
11	Interstate									
12	Other Fwy/Ex									
14	Prin. Arterial									
16	Minor Arterial									
17	Collector									
19	Local									
	Small Urban Subtotal									
Urban										
11	Interstate									
12	Other Fwy/Ex									
14	Prin. Arterial	24,589,592	32.3	0.54	0.94	15.33	270.58	24.91	0.26	2.62
16	Minor Arterial	49,067,062	25.2	0.84	1.61	32.72	539.95	42.23	0.49	5.34
17	Collector	23,293,611	19.0	0.42	0.78	16.99	262.15	21.71	0.23	2.53
19	Local	37,230,000	31.3	0.96	1.59	33.96	406.56	45.22	0.42	3.89
	Urban Subtotal	134,180,265	26.2	2.75	4.92	99.00	1,479.24	134.08	1.41	14.37
	Region Total	134,180,265	26.2	2.75	4.92	99.00	1,479.24	134.08	1.41	14.37

Mobile Source Highway Emissions Inventory

Explanation of Methodology

March 2009

Explanation of Methodology
March 2009

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INTRODUCTION

The purpose of this document is to explain how Pennsylvania estimates emissions from highway vehicles for inclusion in its emission inventories and State Implementation Plans.

Overview of Emissions Inventories

Pennsylvania's inventories generally categorize emissions into four categories:

- highway vehicles
- stationary sources (major industrial, commercial and utility sources)
- area sources (smaller industrial/commercial sources, consumer products)
- nonroad mobile sources (including construction and agricultural equipment, lawn and garden equipment)

An evaluation of emissions from point, area, and mobile sources is needed to develop a complete inventory needed for a maintenance demonstration plan. This inventory provides the mobile source activity and emissions for base and future years that can be used to support such a demonstration.

Of all of the sources of air pollution, only the emissions of some stationary sources are measured directly and continuously through instrumentation. Emissions from all other sources must be estimated in some fashion, including those from highway vehicles. In their very simplest form, estimates of emissions follow the following pattern:

Emission rate x activity level = emissions per time period (usually day or year)

Most emission rates have been developed by EPA, in cooperation with industry and states, over many years and are compiled and documented in a reference volume, Compilation of Air Pollution Emission Factors (AP-42). For example, the annual VOC emissions from residential fuel oil heating could be estimated by:

AP-42 emission rate	*X*	*activity level*	*=*	*emissions*
0.713 pounds/gallon	*X*	# dwelling units *x* % using oil *x* # gallons per unit		# pounds of VOC per year

Adding up the products of the emission rates and activity levels for all sources of a given pollutant constitutes the emission inventory for that pollutant.

Highway Vehicle Emission Inventories

Highway vehicles contribute significantly to air pollution, particularly to ground-level ozone, which is the most persistent air pollutant in Pennsylvania. Ozone is not created directly but formed in sunlight from VOCs and NOx. Both VOCs and NOx are emitted from highway vehicles. In addition, fine particulates are also emitted directly by motor vehicles as a result of the combustion process (tailpipe emissions), re-entrained and transportation construction dust; and formed through reactions in the atmosphere among the precursors VOC, NOx, NH3 and SOx.

Obviously, direct measurement of emission levels from all vehicles in use is impossible. In comparison to highway vehicles, estimating residential heating emissions is a fairly simple calculation because there is a constant emission rate and a fairly simple measure of activity. For highway vehicles, however, estimating the emission rate and activity levels of all vehicles on the road during a typical summer day is a complicated endeavor.

If every vehicle emitted the same amount of pollution all the time, one could simply multiply those emission standards (emission rate in grams of pollution per mile) times the number of miles driven (activity level) to estimate total emissions. But, the fact is that emission rates from all vehicles vary over the entire range of conditions under which they operate. These variables include air temperature, speed, traffic conditions, operating mode (started cold? started warm? running already warmed up?) and fuel. The inventory must also account for non-exhaust or evaporative emissions. In addition, the fleet is composed of several generations, types of vehicles and their emission control technologies, each of which performs differently. This requires that the composition of the fleet (vehicle ages and types) must also be included in the estimation algorithm.

In order to estimate both the rate at which emissions are being generated and to calculate vehicle miles traveled (activity level), Pennsylvania examines its road network and fleet to estimate vehicle activity. For ozone-related inventories, this is done for a typical summer weekday. For CO and PM emission inventories, this may be done for a typical winter weekday or annual conditions. Not only must this be done for a baseline year, but it must also be projected into the future. This process involves a large quantity of data and is extremely complex.

Computer models have been developed to perform these calculations by simulating the travel of vehicles on the Commonwealth's roadway system. These models then generate emission rates (also called emission factors) for different vehicle types for area-specific conditions and then combine them in summary form. The "area-specific conditions" include vehicle and highway data, plus control measure characteristics and future year projections of all variables.

MOBILE. The heart of the highway vehicle emission calculation procedure is EPA's highway vehicle emission factor model, MOBILE. This is a FORTRAN program that calculates **average** in-use fleet emission factors for ozone precursors for each of twenty-eight categories of vehicles under various conditions affecting in-use emission levels (e.g., ambient temperatures, average traffic speeds, gasoline volatility) as specified by the model user. MOBILE produces the "emission rates" referred to in the previous section.

The model was first developed as MOBILE1 in the late 1970s, and has been periodically updated to reflect the collection and analysis of additional emission factor data over the years, as well as changes in vehicle, engine and emission control system technologies, changes in applicable regulations, emission standards and test procedures, and improved understanding of in-use emission levels and the factors that influence them. For this inventory effort, Pennsylvania utilizes MOBILE6.2 as approved by EPA. In addition to VOC, CO, and NOx, MOBILE6.2 produces emission factors for PM related emission categories as needed for the $PM_{2.5}$ inventory analyses.

PPSUITE. Pennsylvania also uses a post processor named PPSUITE (formerly named PPAQ - Post Processor for Air Quality), which consists of a set of programs that perform the following functions:

- Analyzes highway operating conditions
- Calculates highway speeds
- Compiles vehicle miles of travel (VMT) and vehicle type mix data

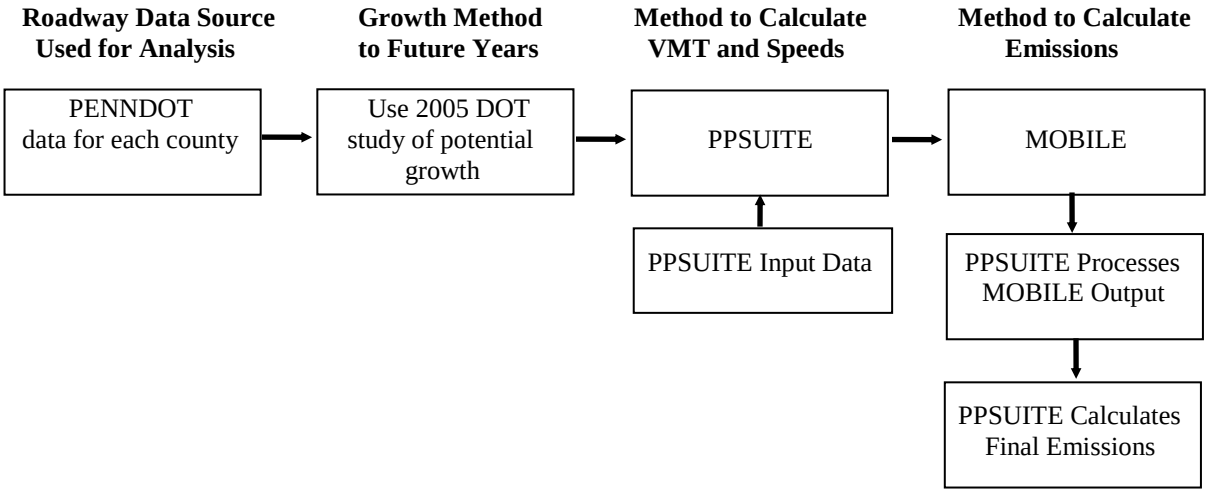
- Prepares MOBILE6 runs
- Calculates emission quantities from output MOBILE6 emission rates and accumulated highway VMT.

PPSUITE has become a widely used and accepted tool for estimating speeds and processing MOBILE emission rates. It is currently being used for the New York City region, for the north and south New Jersey regions, and in other states including Louisiana, Virginia, and Indiana. The software is based upon accepted transportation engineering methodologies. For example, PPSUITE utilizes speed and delay estimation procedures based on planning methods provided in the 2000 Highway Capacity Manual, a report prepared by the Transportation Research Board (TRB) summarizing current knowledge and analysis techniques for capacity and level-of-service analyses of the transportation system.

These two computer programs interact as shown in Exhibit 1.

Exhibit 1

Emission Calculation Process for Pennsylvania



WHERE DOES PENNSYLVANIA OBTAIN ITS DATA?

Data Used in MOBILE

Two major types of information are written into the MOBILE model by EPA: basic emission rates and travel weighting rates. EPA's Office of Mobile Sources obtains this information from a number of sources, including its new vehicle certification program, in-use vehicle random sample studies and special studies (including information from some state I/M programs). For more information on MOBILE, a users guide and various documents (as well as the model itself) are available through EPA's website (http://www.epa.gov/OMSWWW/models.htm).

Basic emission rates are those which are produced under very standardized conditions. The model then modifies (corrects and/or weights) these rates based on other model or input parameters. Rates are incorporated for model year and vehicle type. MOBILE also calculates an assumed amount of increase in emissions as vehicles accumulate mileage.

In addition to exhaust emissions, evaporative VOC emission sources from gasoline-powered vehicles are also included[1]:

- diurnal emissions (evaporated gasoline emissions generated by the rise in temperature over the course of a day when the vehicle is not being driven),
- hot soak emissions (evaporated gasoline emissions occurring after the end of a vehicle trip, due to the heating of the fuel, fuel lines, fuel vapors),
- running loss emissions (evaporated gasoline emissions occurring while a vehicle is driven, due to the heating of the fuel and fuel lines),
- resting loss emissions (small but continuous seepage and minor leakage of gasoline vapor through faulty connections, permeable hoses and other materials in the fuel system).

Evaporative emissions are very dependent on temperature and fuel volatility as well as vehicle model year.

Travel Weighting Fractions. Research has found that newer cars tend to be driven more. The model reflects this, using state-specific vehicle age distributions from registration data. The model also contains assumptions about trips per day and miles per day by age of the vehicle. This is important for exhaust emissions because these emissions are greater when the vehicle is not warmed up (cold start). Also, this information helps characterize evaporative emissions.

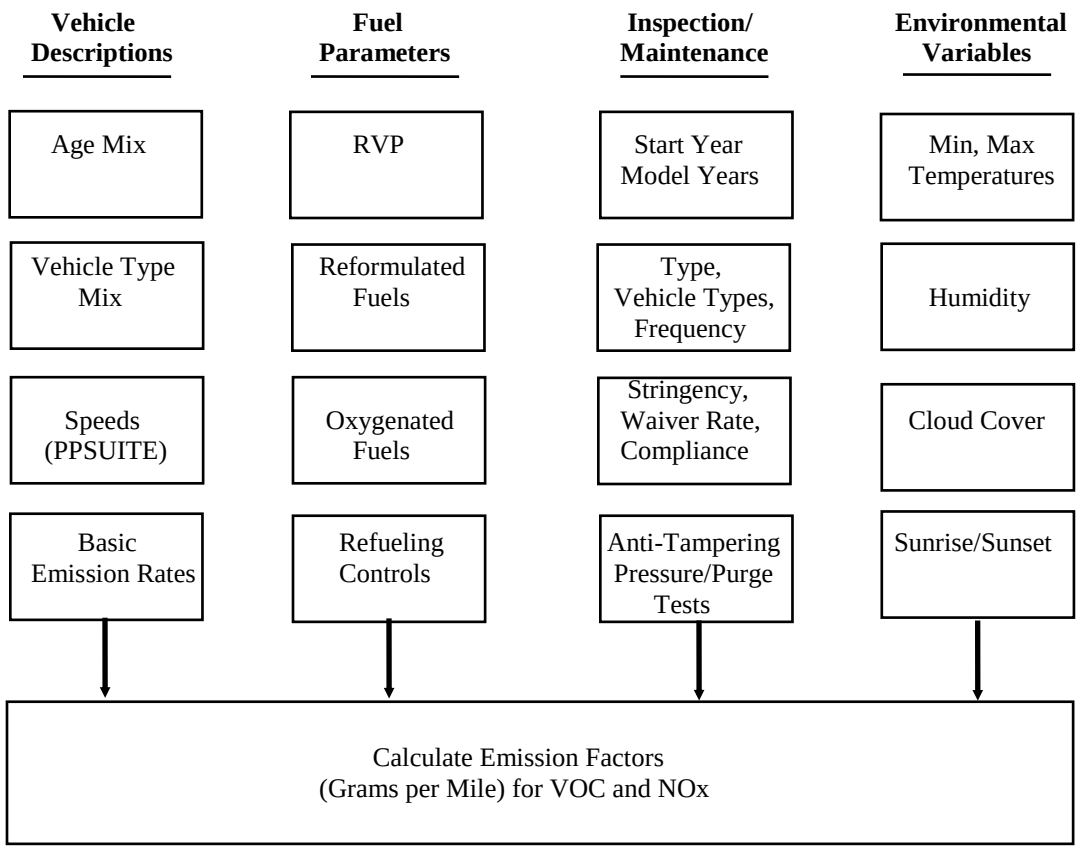
[1] Some states use MOBILE to estimate refueling emissions (gasoline vapor emissions generated by the refueling of vehicles, where in the absence of controls the vapor in the vehicle fuel tank is displaced by the incoming liquid fuel and released to the atmosphere). Pennsylvania handles these emissions in the area source inventory.

What Are The Necessary Data Inputs to MOBILE?

A large number of inputs to MOBILE are needed to fully account for the numerous vehicle and environmental parameters that affect emissions including traffic flow characteristics (as determined from the PPSUITE software), vehicle descriptions, fuel parameters, inspection/maintenance program parameters, and environmental variables as shown in Exhibit 2. With some input parameters, MOBILE allows the user to choose default values, while others require area-specific inputs.

Exhibit 2

MOBILE Inputs



For an emissions inventory, area specific inputs are used for all of the items shown in Exhibit 2 except for the basic emission rates, which are MOBILE defaults. In addition, Pennsylvania uses the MOBILE6.2 default starts-per-day data and soak distributions that are used to calculate the number of starts in cold and hot start modes. EPA requires that the number of starts occurring per vehicle be determined from instrumented vehicle counts. Since such local data is not available, the MOBILE6.2 national defaults are used for the Pennsylvania analyses. A vehicle will generate more emissions when it is first operated (cold start). It generates emissions at a different rate when it is stopped and then started again within a short period of time (hot start). Soak distributions are used to determine the time between when an engine is turned off to the next time it is restarted.

Vehicle Descriptions. Vehicle age distributions are input to MOBILE for each county based on registered vehicles reflecting July 1 summer conditions. These distributions are obtained from PENNDOT's Bureau of Motor Vehicle Registration Database. Vehicle Type Mix is calculated from algorithms using a combination of MOBILE6.2 default percentages and PENNDOT truck percentages from roadway data. (See also the discussion of Vehicle Type Pattern Data in the next section.) Speeds are discussed extensively in the next section.

Significant changes have occurred in the MOBILE6.2 model as compared to previous releases. Some of the information previously applied by the post processor after running MOBILE can now be input directly to the MOBILE6.2 model run. This includes information on the hourly distribution of VMT and the hourly speeds that occur during the day. Another important change in MOBILE6.2 is the influence of facility type on output emission factors. For example, MOBILE6.2 assumes that an average speed on a freeway results in a different emission factor than the same speed on an arterial roadway. Thus MOBILE6.2 is indirectly accounting for the accelerations and decelerations that typically occur on such roadways. MOBILE6.2 has four distinct facility types: Freeway, Arterial, Local, and Ramp. For any emission run, the input functional classes analyzed must be mapped to the above facility types. The following mapping scheme is used for the Pennsylvania runs:

PENNDOT Functional Classes	***MOBILE6.2 Facility Type***
1,11,12	Freeway
2,6,7,8,14,16,17	Arterial
9,19	Local

Since ramps are not directly represented within the RMS database information, it is assumed that 8% of the Freeway VMT is Ramp VMT. This is consistent with the recommendations provided in EPA's Technical Guidance on the Use of MOBILE6.2 for Emissions Inventory Preparation.

Fuel Parameters. The same vehicle will produce different emissions using a different type of gasoline. Fuel control strategies can be powerful emission reduction mechanisms. An important variable in fuels for VOC emissions is its evaporability, measured by Reid Vapor Pressure.

MOBILE allows the user to choose among conventional (used in most of Pennsylvania), federal reformulated (now used in the Philadelphia area), oxygenated (not used in Pennsylvania) and low Reid Vapor Pressure (RVP) gasoline (used in the Pittsburgh area starting in 1998). Pennsylvania chooses the MOBILE inputs appropriate to the year, season, and control strategy for the area being modeled.

MOBILE also allows users to calculate refueling emissions, the emissions created when vehicles are refueled at service stations. Pennsylvania includes refueling emissions in its area source inventory and not in its highway vehicle inventory. However, that calculation uses a grams per gallon emission rate generated by MOBILE.

Vehicle Emission Inspection/Maintenance (I/M) Parameters. MOBILE allows users to vary inputs depending on the I/M program in place for the area or, of course, choose "no I/M program." The inputs include:

- program start year
- stringency level
- first and last model years subject to the program
- waiver rates
- compliance rates

- program type (test-only, test-and-repair, etc.) and effectiveness
- frequency of inspection (annual, biennial)
- vehicle type coverage
- test type (idle, loaded, etc.)
- pass/fail standards or "cutpoints"
- technician training program

Some cutpoints (the emissions at which vehicles are failed) are contained in MOBILE, while others must be put in by the model user. Pennsylvania uses the parameters specific for the geographic area and year for which the modeling is being performed.

Environmental Variables. Evaporative emissions are influenced significantly by the temperatures of the surrounding air. Minimum and Maximum temperatures have been compiled for each county based on information from EPA's CHIEF bulletin board reflecting airport temperatures on emission violation days. For annual and winter weekday analysis, average monthly temperatures are compiled for each county.

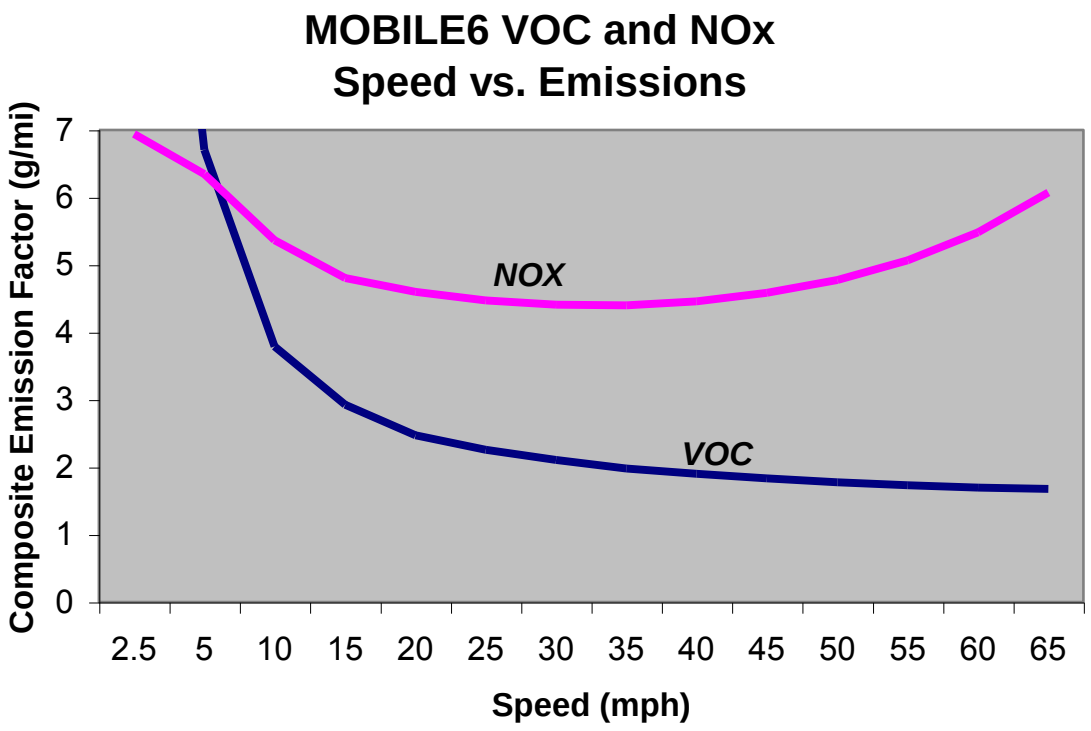
A summary of the MOBILE related inputs used for the inventory and future year estimates are attached with the submission.

Emission and Speed Relationships

Of all the user-supplied input parameters, perhaps the most important is vehicle speed. Emissions of both VOC and NOx vary significantly with speed, but the relationships are not linear, as shown in Exhibit 3. While VOCs generally decrease as speed increases, NOx decreases only at the low speed range and increases steeply at higher speeds. Unlike ozone precursors, the MOBILE6.2 calculation of $PM_{2.5}$ emission factors is not sensitive to many key input parameters including vehicle speed.

To obtain the best estimate of vehicle speeds, Pennsylvania uses the PPSUITE set of programs, whose primary function is to calculate speeds and to organize and simplify the handling of large amounts of data needed for calculating speeds and for preparing MOBILE input files.

Exhibit 3



Roadway Data

The roadway data input to emissions calculations for Pennsylvania uses information from the Roadway Management System (RMS) maintained by PENNDOT's Bureau of Planning and Research. PENNDOT obtains this information from periodic visual and electronic traffic counts. RMS data is dynamic since it is continually reviewed and updated from new traffic counts and field visits conducted by PENNDOT. Information on roadways included in the National Highway System is reviewed at least annually, while information on other roadways is reviewed at least biennially.

On a triennial basis, a current "snapshot" of the RMS database is taken and downloaded to provide an up-to-date record of the Commonwealth's highway system for estimating emissions. A 2002 "snapshot" is used as the basis for 2002 base year inventory calculations. The current "snapshot", in this case 2005, is used as the basis for future year inventory estimates. Growth rates are used to factor the 2005 volumes to each future analysis year.

The RMS database contains all state highways, including the Pennsylvania Turnpike, divided into segments approximately 0.5 miles in length. These segments are usually divided at important intersections or locations where there is a change in the physical characteristics of the roadway (e.g. the number of lane changes). There are approximately 99,000 state highway segments for the 67 Pennsylvania counties contained in the RMS. Each of these segments contains an abundance of descriptive data, but only the following information is extracted for emission calculations:

- Lanes
- Distances
- Volumes in Average Annual Daily Traffic (AADT)
- Truck percentages
- PENNDOT urban/rural classifications
- PENNDOT functional class codes

RMS volumes and distances are used in calculating highway VMT totals for each county. As discussed in the next section, adjustments are needed to convert the volumes to an average summer weekday, winter weekday, and monthly day. Lane values are an important input for determining the congestion and speeds for individual highway segments. Truck percentages are used in the speed determination process and are used to split volumes to individual vehicle types used by the MOBILE software.

Pennsylvania classifies its road segments by function, as well as whether it is located in an urban, small urban or rural area, as indicated below in Exhibit 4. The PENNDOT urban/rural (UR) and functional classes (FC) are important indicators of the type and function of each roadway segment. The variables provide insights into other characteristics not contained in the RMS data that are used for speed and emission calculations. In addition, VMT and emission quantities are aggregated and reported using both UR and FC codes.

Exhibit 4

PENNDOT Classification Scheme: Urban/Rural Codes and Functional Class Codes

Urban/Rural Code	1=Rural 2=Small Urban 3=Urban	
Functional Class	Rural Functional Classes Used For Rural Areas	Urban Functional Classes Used For Small Urban and Urban Areas
	1=Rural Freeway	11=Urban Freeway
	2=Rural Other Principal Arterial	12=Urban Expressway
	6=Rural Minor Arterial	14=Urban Principal Arterial
	7=Rural Major Collector	16=Urban Minor Arterial
	8=Rural Minor Collector	17=Urban Collector
	9=Rural Local	19=Urban Local

Note: Functional Classes 3,4,5,10,13,15,18 are not currently used in PENNDOT's RMS database

Additions and Adjustments to Roadway Data

Before the RMS data can be used by PPSUITE for speed and emission calculations, several adjustments and additions must be made to the roadway data.

HPMS Adjustments: According to EPA guidance, baseline inventory VMT computed from the RMS highway segment volumes must be adjusted to be consistent with Highway Performance Monitoring System (HPMS) VMT totals. The HPMS VMT reported for Pennsylvania is a subsystem of the RMS established to meet the data reporting requirements of the Federal Highway Administration (FHWA) and

to serve as PENNDOT's official source of highway information. Although it has some limitations, the HPMS system is currently in use in all 50 states and is being improved under FHWA direction.

The HPMS VMT totals are developed from the data contained in the RMS database at the time of reporting and serves as a "snapshot" of the RMS data for a particular year. Since the RMS database does not contain many local roads, a separate procedure is used by PENNDOT to estimate total local VMT for the HPMS system. HPMS VMT summaries are prepared each year and reported by PENNDOT urban/rural and functional class codes. The VMT contained in the HPMS reports are considered to represent average annual daily traffic (AADT).

Although the HPMS VMT and the roadway data used for an inventory emissions analysis are both based on data from the RMS system, differences do exist between them and include the following. First, the HPMS and inventory roadway data are "snapshots" of the RMS data taken at different times. Since the RMS is dynamic, changing constantly due to new data, differences will result between the data used for calculating HPMS VMT totals and the inventory data used for an emissions analysis. Second, local estimates of HPMS VMT are obtained through alternative procedures developed by PENNDOT. However, the emissions inventory makes use of those few local roads contained in the RMS system. To account for such differences, adjustment factors are calculated and used to adjust the inventory roadway data to the reported HPMS VMT totals submitted to FHWA.

Adjustment factors are calculated which adjust the base year RMS download (in this case 2005) VMT to the reported HPMS totals for that year. These factors are developed for each county, urban/rural code, and functional class combination and are also applied to all future year runs. Adjustments for the "higher" functional classes (e.g. Freeway, Arterials - major routes) were very close to 1.000 since HPMS VMT is derived from RMS information, and the only difference in the data is that the "snapshot" for the emission calculations is taken at a different time than for the HPMS. "Lower" classes (e.g. local roads) require greater adjustment since a large part of the local system is not under state jurisdiction and is not in the RMS database. There is, of course, a significant amount of local road mileage in the state. It is assumed that those local streets that are in RMS are representative of all local streets in their area with respect to volume and speed, so that roadway mileage adjustment is appropriate.

Seasonal Adjustments to Volumes: The RMS contains AADT volumes that are an average of all days in the year including weekends and holidays. An ozone emission analysis, however, is based on a typical summer weekday. PM and CO analyses require volumes representing a typical winter weekday and monthly average conditions (needed for producing annual totals). Therefore, the RMS volumes must be seasonally adjusted. Seasonal factors were developed for each functional class and urban/rural code based on yearly count information prepared by PENNDOT's Bureau of Planning and Research. These factors are applied to the existing RMS AADT volumes to produce the July volumes.

Additional Network Information: The PPSUITE software system allows for many additional variables other than those available in the RMS database. Using these variables improves the ability of Pennsylvania to incorporate real roadway conditions into its estimates. The variables include information regarding signal characteristics and other physical roadway features that can affect a roadway's calculated congested speed. PPSUITE's ability to estimate congested speeds by road segment improves Pennsylvania's emissions inventories because of the overwhelming role speed plays in emission rates. If specific information regarding these variables is known or obtained for areas, this information can be appended to the RMS database. Otherwise, default values are assumed based on information provided by the PPSUITE input speed/capacity lookup data as described below.

Speed/capacity lookup data provides PPSUITE with initial (free-flow with no congestion) speeds and capacities for different urban/rural code and functional class groupings. The initial speeds and capacities

are used by PPSUITE in determining the final congested speed for each roadway segment. Speeds can also be greatly impacted by signals and other roadway features. As a result, this data provides default signal densities (average number of signals per mile for different functional classes) as well as default values for variables that determine the decay of speed with varying levels of congestion. As discussed above, values from the speed/capacity data can be overridden for specific links by directly coding values to the roadway database segments. The speed capacity data was developed from a combination of sources including the following:

- Information contained in the 2000 Highway Capacity Manual
- PENNDOT information on speeds and signal densities
- Engineering judgment

24-hour Pattern Data: Speeds and emissions vary considerably depending on the time of day (because of temperature) and congestion. Therefore, it is important to estimate the pattern by which roadway volume varies by hour of the day. The 24-hour pattern data provides PPSUITE with information used to split the daily roadway segment volumes to each of the 24 hours in a day. Pattern data is in the form of a percentage of the daily volumes for each hour. Distributions are provided for each county and functional class grouping. This data was developed from 24-hour count data compiled by PENNDOT's Bureau of Planning and Research.

Vehicle Type Pattern Data: Basic emission rates may differ by vehicle type. These types are listed below in Exhibit 5.

Exhibit 5

MOBILE6.2 Input Composite Vehicle Classes

1.	LDV	- Light-Duty Vehicles (Passenger Cars)
2.	LDT1	- Light-Duty Trucks 1 (<6,000 lbs)
3.	LDT2	- Light-Duty Trucks 2 (<6,000 lbs, LVW=3,751-5,750)
4.	LDT3	- Light-Duty Trucks 3 (6,001-8,500 lbs)
5.	LDT4	- Light-Duty Trucks 4 (6,001-8,500 lbs, LVW>5,751)
6.	HDV2B	- Class 2b Heavy Duty Vehicles
7.	HDV3	- Class 3 Heavy Duty Vehicles
8.	HDV4	- Class 4 Heavy Duty Vehicles
9.	HDV5	- Class 5 Heavy Duty Vehicles
10.	HDV6	- Class 6 Heavy Duty Vehicles
11.	HDV7	- Class 7 Heavy Duty Vehicles
12.	HDV8A	- Class 8a Heavy Duty Vehicles
13.	HDV8B	- Class 8b Heavy Duty Vehicles
14.	HDBS	- School Buses
15.	HDBT	- Transit and Urban Buses
16.	MC	- Motorcycles

MOBILE summary reports by vehicle type are also useful in knowing what kinds of vehicles generate emissions. The vehicle type pattern data is used by PPSUITE to divide the hourly roadway segment volumes to the sixteen MOBILE6.2 (MOBILE5 had eight) vehicle types. Similar to the 24-hour pattern data, this data contains percentage splits to each vehicle type for every hour of the day. The vehicle type pattern data was developed from several sources of information:

- Hourly distributions for trucks and total traffic compiled by PENNDOT's Bureau of Planning and Research, according to 2005 Pennsylvania Traffic Data
- PENNDOT truck percentages from the RMS database
- MOBILE6.2 default vehicle type breakdowns for the analysis year

The vehicle type pattern data is developed for each county and functional class combination. First, RMS truck percentages are averaged for all roadways within a county, functional class grouping. Using this percentage data, the total roadway volume for any segment could be divided to both auto and truck vehicle type categories. However, these percentages do not yet enable volumes to be divided to each of the sixteen MOBILE6.2 vehicle types. As a result, MOBILE6.2 default vehicle type breakdowns are then used to divide the auto and truck percentages, calculated above, to each specific MOBILE6.2 vehicle type. Note that the defaults used vary by analysis year; as a result, each forecast year will utilize a unique vehicle mix distribution. PENNDOT hourly distributions for trucks and total traffic are then used to create vehicle type percentage breakdowns for each hour of the day.

Vehicle Type Capacity Analysis Factors: Vehicle type percentages are provided to the capacity analysis section of PPSUITE to adjust the speeds in response to trucks. That is, a given number of larger trucks take up more roadway space than a given number of cars, and this must be accounted for in the model. Capacity is adjusted based on the factors provided in this data. Values are developed from information in the 2000 Highway Capacity Manual and are specific to the various facility types.

Producing Future Year Volumes

Growth factors are used to project future highway volumes from the volumes provided in the RMS database. In the past, separate factors were derived for each county and highway functional class from an analysis of historic global update factors provided by PENNDOT's Bureau of Planning and Research, coupled with estimates of population and employment growth from the U.S. Department of Commerce's Bureau of Economic Analysis (BEA). The factors were then applied to base year traffic volumes (in this case 2005) on each highway segment in the RMS network database.

For this submission, county-specific growth rates from a PENNDOT study completed in 2005 have been used to forecast volumes. As part of that study, a statewide traffic growth forecasting system was developed that incorporates traffic data from PENNDOT's Traffic Information System and socioeconomic forecasts. The forecasting system was developed to support Department research endeavors related to transportation conformity and air quality planning.

The study, as documented in the report "*Statistical Evaluation of Projected Traffic Growth, Traffic Growth Forecasting System: Final Report, March 14, 2005*", included the development of VMT forecasts and growth rates for four functional classifications in each Pennsylvania county. The forecasts used statistical relationships based on historic HPMS VMT trends and future county socioeconomic projections from Woods and Poole.

SPEED/EMISSION ESTIMATION PROCEDURE

The previous sections have summarized the input data used for computing speeds and emission rates for Pennsylvania. This section explains how PPSUITE and MOBILE use that input data to produce emission estimates. Exhibit 6 on the following page summarizes PPSUITE's analysis procedure used for each of the 99,000 highway segments in the state.

Producing an emissions inventory with PPSUITE requires a process of disaggregation and aggregation. Data is available and used on a very small scale -- individual ½ mile roadway segments 24 hours of the day. This data needs to first be aggregated into categories so that a reasonable number of MOBILE scenarios can be run, and then further aggregated and/or re-sorted into summary information that is useful for emission inventory reporting.

One of the major enhancements of MOBILE6.2 is the increased detail of traffic that can be input to the emissions model. The PPSUITE post processor calculates hourly speeds for each roadway segment. Since previous versions of MOBILE only allowed one average speed as input for each scenario, the post-processed speeds had to be aggregated and run through MOBILE with scenarios representing four separate time periods. MOBILE6.2 allows for direct input of the 24 hourly speeds as well as options to account for each link's speed separately. These added features utilize the full extent of the information output from the speed processing programs and provide for more accurate emission estimates of the available traffic data.

Volume/VMT Development

Before speeds can be calculated and MOBILE run, volumes acquired from RMS must be adjusted and disaggregated. Such adjustments include factoring to future years (not needed for 2005), seasonal adjustments, and disaggregating daily volumes to each hour of the day and to each of the sixteen MOBILE6.2 vehicle types.

Future Year Volumes: The RMS database contains up-to-date current year volumes. However, to conduct a future year analysis, these volumes must be factored to the year being analyzed. Growth factors have been prepared for each county and functional class grouping. These growth factors are applied to the 2005 RMS volumes to obtain future year estimates that can be utilized by PPSUITE.

Example:

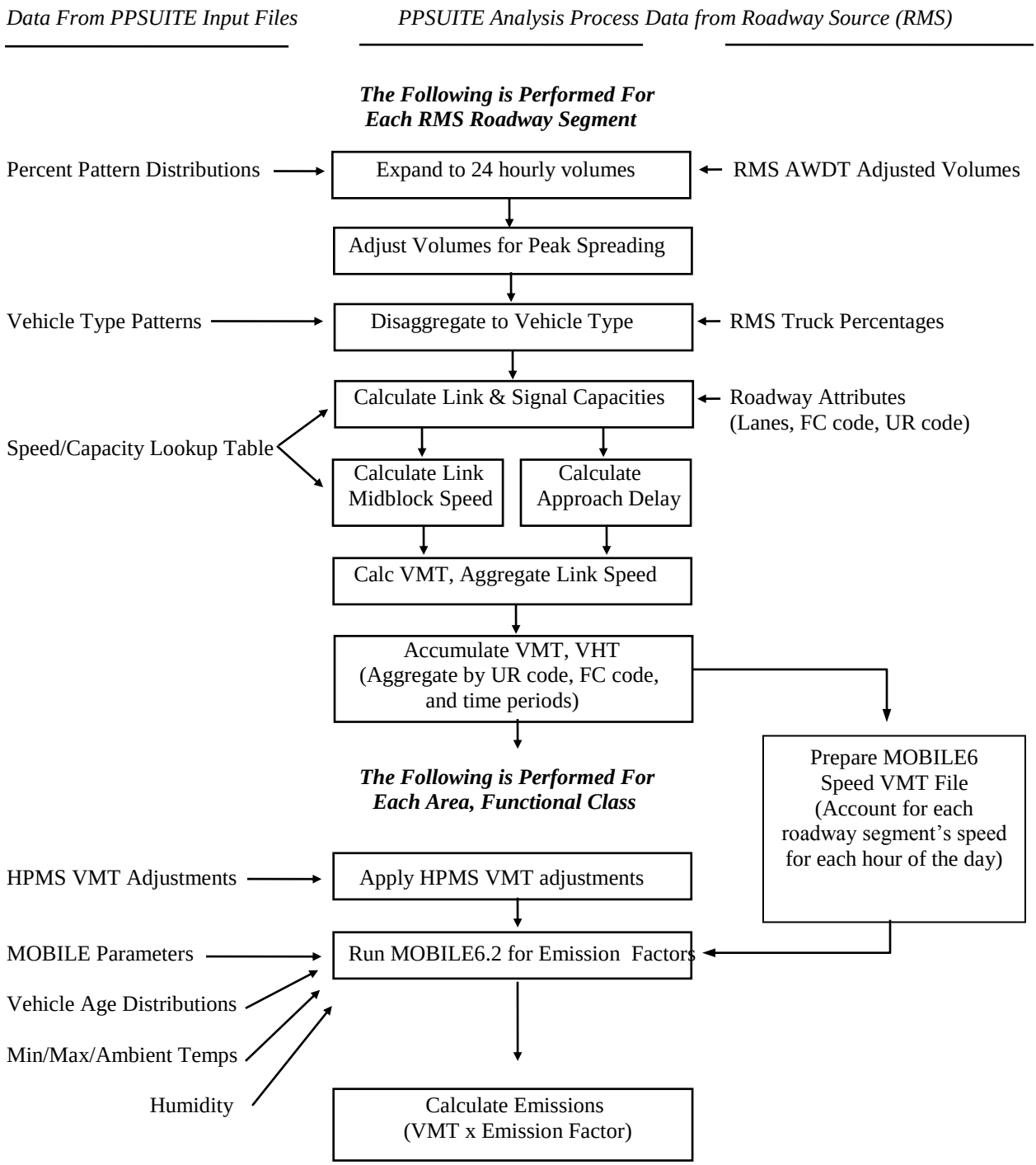
A typical freeway link in the RMS database is I-80 segment 2500 in Luzerne County, Pennsylvania. This link has an urban/rural code=1 which indicates the link is in a rural area, and a functional class=1 indicating a rural freeway. The average annual daily traffic (AADT) from the RMS database for this link in 2002 is 12,077 vehicles/day.

Growth factors have been developed to factor the 2002 volume to future years. For example, to factor the 2002 volume to the year 2014, a growth factor of 1.282 would yield:

2014 volume = 12,077 vehicles/day x 1.282 = 15,483 vehicles/day

Exhibit 6

PPSUITE Speed/Emission Estimation Procedure



Seasonal Adjustments: PPSUITE takes the input daily volumes from RMS which represent AADT and seasonally adjusts the volumes to an average weekday in July. This adjustment utilizes factors developed

for each functional class and urban/rural code. VMT can then be calculated for each link using the adjusted weekday volumes.

Example:

Again, assume the rural freeway link: I-80 segment 2500 in Luzerne County, Pennsylvania. The average annual daily traffic (AADT) for this link in 2002 is 12,077 vehicles/day.

Seasonal factors have been developed for urban/rural code and functional class combinations. For an urban/rural code=1 and a functional class=1, the factor to convert from AADT to an average weekday in July is = 1.15

Average Weekday July Volume = 12,077 x 1.15 = 13,889 vehicles/day

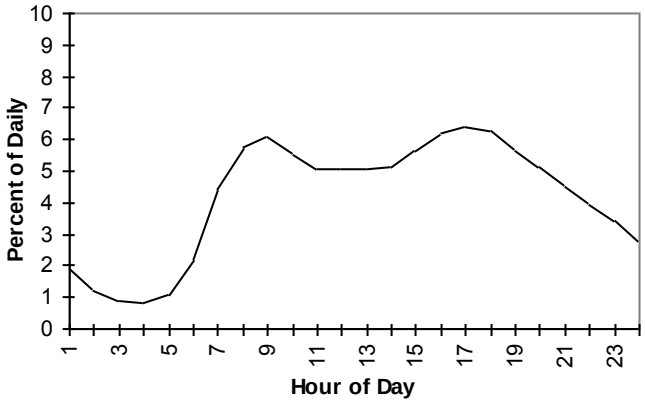
Total VMT (daily) for this link is calculated as volume x distance. The distance of this link as obtained from RMS is 0.286 miles.

2002 VMT = 13,889 vehicles/day x 0.296 miles = 41,111 vehicle-miles / day

Disaggregation to 24 Hours: After seasonally adjusting the link volume, the volume is split to each hour of the day. This allows for more accurate speed calculations (effects of congested hours) and allows PPSUITE to prepare the hourly VMT and speeds for input to the MOBILE6.2 model.

Example:

To support speed calculations and emission estimates by time of day, the July weekday volume is disaggregated to 24 hourly volumes. Temporal patterns were previously developed from PENNDOT count data and input to PPSUITE. For the I-80 rural freeway link with morning peak volumes similar to evening peak hours (neutral), the following temporal pattern is applied:



Using the I-80 segment for 1990, typical hourly volumes which result include:

8-9 a.m.	6.0% x	(41,111 vehicle miles/ 0.296mi.) = 833 vehicles/hour (vph)
12-1 p.m.	5.0% x	(41,111 vehicle .miles/ 0.296mi.) = 694 vph
5-6 p.m.	6.3% x	(41,111 vehicle miles/ 0.296mi.) = 875 vph

After dividing the daily volumes to each hour of the day, PPSUITE identifies hours that are unreasonably congested. For those hours, PPSUITE then spreads a portion of the volume to other hours within the same peak period, thereby approximating the "peak spreading" that normally occurs in such over-capacity conditions.

Disaggregation to Vehicle Type: EPA requires VMT estimates to be prepared by vehicle type, reflecting specific local characteristics. As a result, for Pennsylvania's emission inventory runs, the hourly volumes are disaggregated to the sixteen MOBILE6.2 vehicle types based on count data assembled by PENNDOT in combination with MOBILE6.2 defaults.

Example:

Disaggregation of the total I-80 volume (by hour) to the various vehicle types would include the following:

Total Volume 8-9 am = 833 vph

Vehicle Type Volume 8-9 am:

LDV	40.7%	338 vph
LDT1	7.4%	62 vph
LDT2	24.8%	207 vph
LDT3	7.6%	63 vph
LDT4	3.5%	29 vph
HDV2b	5.0%	42 vph
HDV3	0.5%	4 vph
HDV4	0.4%	3 vph
HDV5	0.3%	3 vph
HDV6	1.1%	9 vph
HDV7	1.3%	11 vph
HDV8a	1.4%	12 vph
HDV8b	5.1%	42 vph
HDBS	0.3%	3 vph
HDBT	0.1%	1 vph
MC	0.5%	4 vph

Speed/Delay Determination

EPA recognizes that the estimation of vehicle speeds is a difficult and complex process. Because emissions are so sensitive to speeds, it recommends special attention be given to developing reasonable and consistent speed estimates; it also recommends that VMT be disaggregated into subsets that have roughly equal speed, with separate emission factors for each subset. At a minimum, speeds should be estimated separately by roadway functional class.

The computational framework used for this analysis meets and exceeds that recommendation. Speeds are individually calculated for each roadway segment and hour and include the delays encountered at signals. Rather than accumulating the roadway segments into area/functional groupings and calculating an average speed (as done in past), each individual link hourly speed is represented in the MOBILE6.2 speed VMT file. This represents a significant enhancement in the MOBILE model since past versions only allowed input of one average speed for each scenario. MOBILE6.2 allows the input of a distribution of hourly speeds. For example, if 5% of a county's arterial VMT operate at 5 mph during the AM peak hour

and the remaining 95% operate at 65mph, this can be represented in the MOBILE6.2 speed input file. For the Pennsylvania runs, distributions of speeds are input to MOBILE6.2 for separate scenarios representing county and functional class groupings; VMT is accumulated by the same groupings for the application of the emission factors to produce resulting emission totals.

To calculate speeds, PPSUITE first obtains initial capacities (how much volume the roadway can serve before heavy congestion) and free-flow speeds (speeds assuming no congestion) from the speed/capacity lookup data. As described in previous sections, this data contains default roadway information indexed by the urban/rural code and functional class. For areas with known characteristics, values can be directly coded to the RMS database and the speed/capacity data can be overridden. However, for most areas where known information is not available, the speed/capacity lookups provide valuable default information regarding speeds, capacities, signal densities and characteristics, and other capacity adjustment information used for calculating congested delays and speeds.

Example:

The speed/capacity lookup table is used to obtain important data used for link speed calculations. For the I-80 link with an urban/rural code = 1 (rural) and a functional class = 1 (freeway), the lookup table provides information including the following:

freeflow speed = 65 mph
capacity = 1800 vph per lane
number of signals = 0

This information is used along with the physical characteristics of the roadway to calculate the delay (including congestion) to travel this link during each hour of the day:

For example: The I-80 link is calculated to have a travel time, including delay of 17.76 seconds for the 8-9am hour

Total travel time, in vehicle hours, for the 8-9am hour is calculated as:

VHT (8-9am) = 17.76 seconds x 833vph / 3600 sec/hr = 4.12 vehicle hours

---

The result of this process is an estimated average travel time for each hour of the day for each highway segment. The average time can be multiplied by the volume to produce vehicle hours of travel (VHT).

HPMS and VMT Adjustments

Volumes must also be adjusted to account for differences with the HPMS VMT totals, as described previously. VMT adjustment factors are provided as input to PPSUITE, and are applied to each of the roadway segment volumes. These factors were developed from 2005 data; however, they are also applied to any future year runs. The VMT added or subtracted to the RMS database assumes the speeds calculated using the original volumes for each roadway segment for each hour of the day.

Example:

Using the Luzerne County I-80 rural freeway link example, the daily assigned volume is adjusted to account for reconciliation with the HPMS VMT. RMS VMT (in AADT) for Luzerne County rural freeways totals 962,559 vehicle miles in 2005. HPMS VMT (in AADT) as supplied by PENNDOT and reported to FHWA totals to 990,088 vehicle miles for the rural freeways. A factor is developed by dividing the HPMS VMT by the RMS VMT:

HPMS adjustment factor for Luzerne County rural freeways = 990,088 / 962,559 = 1.029

This factor is held constant in all future years. As an example, this adjustment is made to the I-80 freeway link VMT for the 8-9am hour after speed calculations are made, and produces the final July weekday VMT for this hour used for Ozone runs.

I-80 Link VMT (8-9am) = 833vph x 0.296 miles x 1.029 = 254 vehicle miles

VMT and Speed Aggregation

As discussed in previous sections, MOBILE6.2's ability to handle input distributions of hourly speeds has eliminated the need to aggregate speed data. For Pennsylvania runs, PPSUITE has been set up to automatically accumulate VMT and VHT by geographic areas and highway functional class. The speed files input to MOBILE6.2 for each scenario contain the actual distribution of roadway speeds for that aggregation group. Exhibit 7 illustrates the scenario aggregation scheme used with MOBILE6.2.

Exhibit 7

VMT/VHT Aggregation Scheme

County			67 entries
Urban/Rural Code	1=Rural 2=Small Urban 3=Urban		
Functional Class	1=Rural Freeway 2=Rural Other Principal Arterial 6=Rural Minor Arterial 7=Rural Major Collector 8=Rural Minor Collector 9=Rural Local	11=Urban Freeway 12=Urban Expressway 14=Urban Principal Arterial 16=Urban Minor Arterial 17=Urban Collector 19=Urban Local	18 entries
			1,206 potential combinations

Geographic aggregation is performed by urban, small urban, and rural areas of each county. Functional class aggregation is according to PENNDOT's eighteen standard functional classes, respecting urban, small urban and rural definitions. For an individual county, this creates a potential for 18 possible

combinations, each of which becomes an input MOBILE6.2 scenario. This allows each MOBILE6.2 scenario to represent the actual VMT mix and speed for that geographic / highway combination. Altogether then, there are potentially 1,206 combinations for which speeds and VMT are computed and emissions are calculated with MOBILE.

MOBILE Emissions Run

After computing speeds and aggregating VMT and VHT, PPSUITE prepares input files to be run in EPA's MOBILE6.2 program which is used to produce VOC and NOx emission factors in grams of pollutant per vehicle mile. The process uses an unmodified version of the MOBILE program that was obtained directly from EPA.

The MOBILE input file prepared by PPSUITE contains the following:

- MOBILE template containing appropriate parameters and program flags
- Temperature data specific to the county and season being run
- Vehicle age and diesel sales fraction data for the county being run
- Scenario data - contains VMT mix, speed distributions specific to scenario as produced by PPSUITE

Example:

A MOBILE input file is created by PPSUITE for Luzerne County. This file contains separate scenarios for each urban/rural code, functional class. A scenario represents a separate MOBILE run with different emission factors calculated and output for each run.

For this example, Luzerne County rural freeways will be run as a scenario with a specific VMT mix file and a speed distribution file accounting for all the roadway speeds within the grouping.

Time of Day and Diurnal Emissions

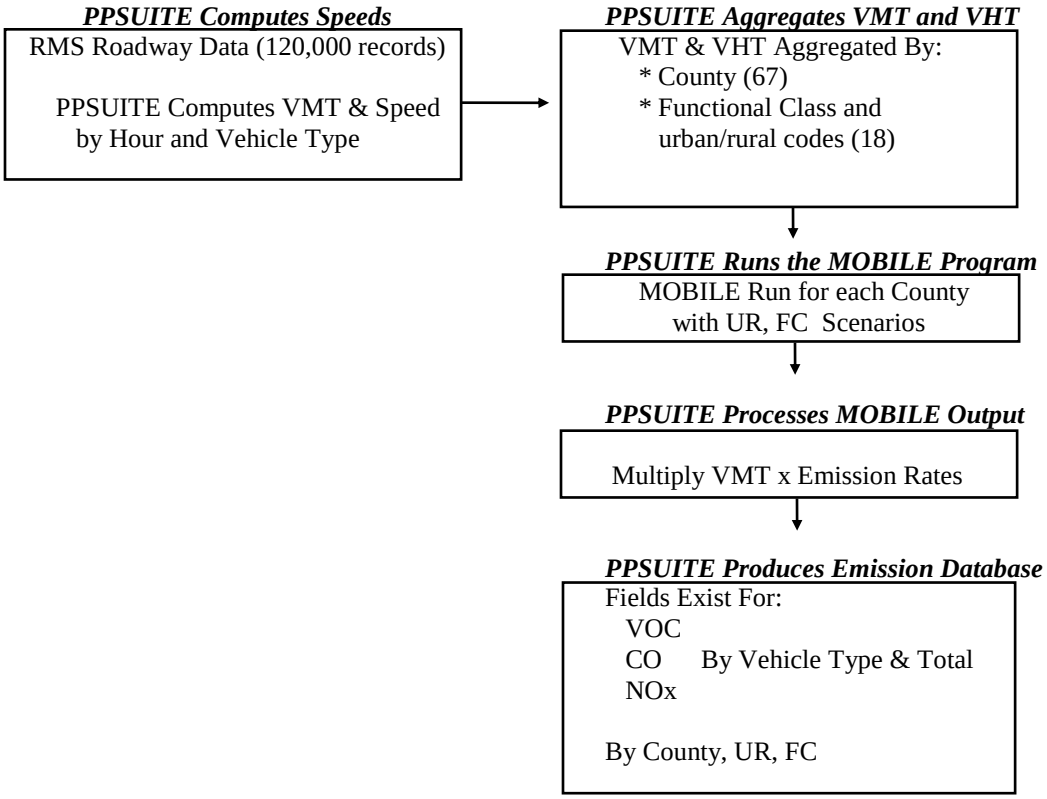
Unlike in the past using MOBILE5, VMT and speeds are no longer aggregated as separate scenarios representing time periods. This was done in the past to account for the unique speeds encountered during each time period in the day. Since MOBILE6.2 allows for hourly roadway speeds to be represented in the speed VMT file, such a process is no longer needed. MOBILE6.2 will internally account for the emissions during each hour in the day and make the necessary diurnal calculations.

Process MOBILE Output

After MOBILE has been run, PPSUITE processes the MOBILE output files and compiles the emission factors for each scenario. Using the above methodology, it allocates daily diurnal emissions to each of the time periods. Using the MOBILE emission factors, PPSUITE calculates emission quantities by multiplying the emission factors by the aggregated VMT totals. PPSUITE then produces an emissions database summarizing VMT, VHT, VOC, and NOx emissions as shown in Exhibit 8.

Exhibit 8

Summary of PPSUITE's Methodology in Producing Emissions Summary



Example:

Luzerne County rural freeways were run as a scenario in MOBILE. Based on the input information, MOBILE6.2 outputs emission factors by vehicle type for this scenario as shown below:

Composite Emission Factors (grams/mile) from MOBIL6 output

Vehicle Type:	LDGV	LDGT1	LDGT2	LDGT3	LDGT4	HDDV7 ….. For all 28 M6 types
VOC:	1.22	1.86	2.42	3.68	0.36	1.13
NOX:	2.41	3.16	3.66	7.14	1.84	5.84

PPSUITE reads these emission factors from the MOBILE6.2 output file and multiplies them by the Luzerne County rural freeway VMT to obtain emission totals for this scenario. (Note: emissions shown in kg/day which is converted to tons/day in SIP narratives)

PPSUITE computes emissions as follows for this scenario:

			Emission Factors (g/mi)			**Emissions (kg/day)**	
Veh Type	**VMT**		**VOC**	**NOX**		**VOC**	**NOX**
LDGV	84,344	x	1.22	2.41	=	102.9	203.3
LDGT1	30,713	x	1.86	3.16	=	57.1	97.1
LDGT2	21,515	x	2.42	3.66	=	52.1	78.7
LDGT3	4,209	x	3.68	7.14	=	15.5	30.1
LDGT4	3,586	x	0.36	1.84	=	1.3	6.6
HDDV7	7,483	x	1.13	5.84	=	8.5	43.7
….. Repeated for all 28 MOBILE6.2 vehicle types							
Total	155,903					244.6	482.0

The emissions for this scenario are reported and stored in an output database file which contains a record for each scenario with fields containing VMT, VHT, VOC emissions, and NOX emissions. Fields exist for each vehicle type and for the total of all vehicle types as shown below.

Reported by Vehicle Type 1-28 and Total --- Repeated for VHT,HC,NOX

Cnty	**UR**	**FC**	**VMT1**	**VMT2**	**VMT3**	**VMT4**	**VMT5**	**VMT6**	**VMT7**	**VMT8**	**… VMT28**
Luze	1	1	84,344	30,713	21,515	4,209	3,586	2,806	7,483	1,248	
			VHT1	**VHT2**	**VHT3**	**VHT4**	**VHT5**	**VHT6**	**VHT7**	**VHT8**	**… VHT28**
			1,298	473	331	65	55	43	115	19	
			VOC1	**VOC2**	**VOC3**	**VOC4**	**VOC5**	**VOC6**	**VOC7**	**VOC8**	**… VOC28**
			102.9	57.1	52.1	15.5	1.3	1.5	8.5	5.7	
			NOX1	**NOX2**	**NOX3**	**NOX4**	**NOX5**	**NOX6**	**NOX7**	**NOX8**	**… NOX28**
			203.3	97.1	78.7	30.1	6.6	11.6	43.7	10.9	

RESOURCES

MOBILE model

Modeling Page within EPA's Office of Mobile Sources Website (http://www.epa.gov/omswww/models.htm) contains a downloadable model, MOBILE users guide and other information. It also contains documents relating to the next version of MOBILE (MOBILE6.2) expected in 1999.

"AP-42" document, "Compilation of Air Pollutant Emission Factors, Volume II: Mobile Sources," as updated by Supplement A (January 1991), available in hard-copy only. This material is also in the process of being revised and updated. Contact AP-42 Project, Test and Evaluation Branch, EPA, 2565 Plymouth Road, Ann Arbor, MI 48105.

Highway Vehicle Emission Estimates (June 1992) and *Highway Vehicle Emission Estimates II* (May 1995) discusses how EPA obtains data for MOBILE and some of the shortcomings in earlier models. Similar discussions of the present version's shortcomings are discussed in papers available at the website.

User's Guide to MOBILE6.1 and MOBILE6.2, Mobile Source Emission Factor Model, EPA Office of Air and Radiation, EPA420-R-03-010, dated August 2003.

Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation, US EPA Office of Transportation and Air Quality, August 2004.

Policy Guidance on the Use of MOBILE6 for Emission Inventory Preparation, US EPA Office of Air and Radiation, January 18, 2002.

Traffic Engineering

2000 Highway Capacity Manual, Transportation Research Board, presents current knowledge and techniques for analyzing the transportation system.

Traffic Data Collection and Factor Development Report, 2001 Data, Pennsylvania Department of Transportation, Bureau of Planning and Research.

Traffic Data Collection and Factor Development Report, 2002 Data, Pennsylvania Department of Transportation, Bureau of Planning and Research.

Highway Vehicle Inventory Glossary

AADT: Average Annual Daily Traffic, average of ALL days.

AWDT: Average Weekday Daily Traffic

Basic emission rates: MOBILE emission rates based on the applicable Federal emission standards and the emission control technologies characterizing the fleet in various model years.

Cold start: parameter in MOBILE that accounts for additional emissions resulting from a cold-started engine.

Diurnals: the pressure-driven evaporative HC emissions resulting from the daily increase in temperature

Emission rate or factor: expresses the amount of pollution emitted per unit of activity. For highway vehicles, usually in grams of pollutant emitted per mile driven.

FC: Functional code, applied in data management to road segments to identify their type (freeway, local, etc.)

Fuel volatility: The ability of fuel components to evaporate, thus entering the atmosphere as pollution. Fuel volatility is usually measured as Reid Vapor Pressure (RVP) in pounds per square inch. The lower the RVP, the less volatile the fuel.

Growth factor: Factor used to convert volumes to future years

HPMS: Highway Performance Monitoring System, PENNDOT's official source of highway information and a subset of RMS.

I/M: Vehicle emissions inspection/maintenance programs ensure that vehicle emission controls are in good working order throughout the life of the vehicle. The programs require vehicles to be tested for emissions. Most vehicles that do not pass must be repaired.

MOBILE: The model EPA has developed and which Pennsylvania uses to estimate emissions from highway vehicles.

Pattern data: Extrapolations of traffic patterns (such as how traffic volume on road segment types varies by time of day, or what kinds of vehicles tend to use a road segment type) from segments with observed data to similar segments.

Program flag: In MOBILE, a numeric code which tells the program such things as how data will be provided by user (or whether default will be used) or how to tailor outputs.

PPSUITE: Post-Processor for Air Quality, a set of programs that estimate speeds and processes MOBILE emission rates.

RMS: Roadway Management System, a database maintained by PENNDOT from traffic counts and field visits

Scenario: a MOBILE run with a specific set of geographical, time period, highway facility and control strategy assumptions.

Segment: (referred to as link) division of roadway in the PENNDOT Roadway Management System. Usually represents 0.5 mile segments of roadway.

UR: Urban/rural code, applied in data management to identify whether a road segment is urban, small urban or rural.

VHT: vehicle hours traveled.

VMT: vehicle miles traveled. In modeling terms, it is the simulated traffic volumes times link length.

Vehicle Type: One of eight types, distinguished primarily by fuel type and/or weight, used in MOBILE modeling.

Liberty-Clairton Nonattainment Area: Emissions Inventory for the $PM_{2.5}$ NAAQS

Technical Support Document

Mobile Source Highway Emissions Inventory

Executive Summary

Prepared for:

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March 2009

Liberty-Clairton Nonattainment Area: Mobile Source Emissions Inventory
Executive Summary
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Summary of Appendices

Appendix C-1: Mobile Source Highway Emissions Inventory – An Explanation of Methodology

Appendix C-2: Liberty-Clairton Nonattainment Area $PM_{2.5}$ Emissions Results (By Year, Functional Class and Vehicle Type)

Appendix C-3: MOBILE6.2 Input Parameter Summary

Appendix C-4: MOBILE6.2 Sample Input Files

Appendix C-5: Traffic Growth Forecasting System

INTRODUCTION

This technical document supports the $PM_{2.5}$ State Implementation Plan (SIP) for the Liberty-Clairton nonattainment area (Lincoln Borough, Clairton City, Glassport Borough, Liberty, Port Vue Borough in Allegheny County), Pennsylvania. To meet the emission inventory requirements of section 172(c)(3) of the Clean Air Act, a regional mobile source highway inventory has been prepared for direct and precursor $PM_{2.5}$ emissions.

The pollutants included in the inventory are primary emissions (including condensibles) of $PM_{2.5}$ and the precursor emissions of VOC, CO, NOx, SO2, and NH_3.

This document provides the 2002 base year and 2009 projections of mobile (highway) vehicle miles of travel (VMT) and annual $PM_{2.5}$ direct and precursor emissions that are needed to satisfy the SIP requirements. The following sections summarize the methodology and data inputs used to produce the mobile emissions inventory.

Methodology

Guidance documents from EPA have been used to develop the base and future year emissions inventories for the Liberty-Clairton nonattainment area. They include:

- *Guidance for Creating Annual On-Road Mobile Source Emission Inventories for PM2.5 Nonattainment Areas for Use in SIPs and Conformity*, US EPA Office of Transportation and Air Quality, dated August, 2005.
- *User's Guide to MOBILE 6.1 and MOBILE6.2, Mobile Source Emission Factor Model*, EPA420-R-02-028, dated August 2003.
- *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*, US EPA Office of Air and Radiation, and Office of Transportation and Air Quality, dated August 2004.

Mobile source emission factors have been calculated using EPA's MOBILE6.2 emission model. The methodologies used to produce the emission results conform to the recommendations provided in the above guidance documents. A mix of local data and national default (internal to MOBILE6.2) data has been used for this submission. Local data has been used for the primary data items that have a significant impact on emissions. These include:

- VMT and speeds
- Vehicle type mixes
- Vehicle age distributions
- Hourly distributions
- Temperatures/humidity
- Inspection/Maintenance parameters
- Fuel program characteristics

For this submission, the 2002 base year emission estimates are consistent with past analyses and submissions utilizing 2002 traffic and environmental data. Future year estimates for 2009 are based on the latest available 2005 traffic data, PENNDOT growth rates, and environmental parameters. Current assumptions are used for control strategies (e.g. Inspection-Maintenance,

Pennsylvania Clean Vehicle programs) and fuel characteristics. The analysis methodology is consistent with past statewide inventory efforts including the 2005 National Emissions Inventory (NEI) submission. Annual VMT and emissions are produced using a sum of 12 monthly analysis scenarios. A detailed methodology is provided in **Appendix C-1**. Detailed information on the Commonwealth's Traffic Growth Forecasting System is provided in **Appendix C-5**. The following sections address the key input data sources and analysis tools used for the preparation of the emissions inventory.

Inventory Submission Materials

To complement this document, attachments have been provided with additional detail regarding the analysis methodology, the MOBILE6.2 input parameters, and the output VMT and emission results for the region. These include:

Table 1: Summary of Appendices

Appendix	Title	Description
C-1	Mobile Source Highway Emissions Inventory – An Explanation of Methodology	Provides summary of methodology used to calculate the VMT and emissions.
C-2	Liberty-Clairton Nonattainment Area $PM_{2.5}$ Emission Results (By Year, Functional Class and Vehicle Type)	Provides county by functional class and county by vehicle type annual emission tables for 2002 and 2009.
C-3	MOBILE6.2 Input Parameter Summary	Provides summary of input parameters related to traffic data sources, fuel, weather, I/M, and other MOBILE6.2 related parameters.
C-4	MOBILE6.2 Sample Input File	Provides examples of the MOBILE6.2 input files.
C-5	Traffic Growth Forecasting System	Provides detailed explanation of the Commonwealth's revised methodology for VMT forecasting based on socioeconomic and demographic projections.

DATA SOURCES AND ANALYSIS TOOLS

This section provides a summary of the key input data and analysis tools used for producing the regional emissions inventory. The key elements to the modeling protocol are described in the sections below. A more detailed description of the analysis process and tools is provided in the methodology report in **Appendix C-1 and C-5**.

Analysis Tools

The inventory analysis utilizes several key software/programs for producing the county emissions totals. These tools are outlined in **Table 2**.

Table 2: Summary of Inventory Analysis Tools

Tool	Purpose
MOBILE6.2	Produces emission factors for each pollutant in Grams/Mile for direct $PM_{2.5}$ and NOx
PPSUITE	Processes the highway data, Calculates hourly congested speeds for each state roadway segment, Prepares MOBILE6.2 input files, Processes MOBILE6.2 output files
Custom SCC Output Reformatting Program	Prepares output database files by EPA's Source Classification Codes (SCC)

The inventory reflects the highway mobile source emission estimations using EPA's MOBILE6.2 emission model, which accounts for changes in vehicle technology and regulations. MOBILE6.2 is a software application program that provides estimates of current and future emissions from highway motor vehicles. All states other than California must use MOBILE6.2 for the development of SIP and conformity emission analyses. The model can estimate both direct particulate matter emissions and the emissions of certain particulate precursors for cars, trucks, buses, and motorcycles.

PPSUITE represents an enhanced version of the Post Processor for Air Quality (PPAQ) software system that has been used for previous inventory and conformity submissions in Pennsylvania. The software has undergone significant revisions to ensure consistency with the MOBILE6.2 emissions model. PPSUITE plays a key role in the development of hourly roadway speed estimates, which are supplied as input to the MOBILE6.2 model. The software is also used to prepare the MOBILE6.2 input shell and to process the MOBILE6.2 outputs.

Custom programs have also been prepared to translate the VMT and emission results into a database file indexed by EPA's Source Classification Code (SCC). This code represents combinations of vehicle type groupings, functional classes, and time periods.

Traffic Data Source/Fleet Data Inputs

The PENNDOT Roadway Management System (RMS) data serves as the primary highway data source for the county and functional class VMT estimates. The data source is used to provide a "snapshot" of the regional roadway system and volumes in 2002 and 2005. The data includes the average annual daily traffic (AADT) volumes for all state roadways in Pennsylvania. To account for additional local roadway VMT and to ensure consistency with reported HPMS totals, the 2002 and 2005 VMT totals are adjusted to match the annual HPMS VMT totals reported to FHWA.

Annual VMT and emission results are based on a MOBILE6.2 analysis for an average day in each of the 12 months. These results are then expanded to monthly sub-totals and then to an annual total. The daily and monthly seasonal factors, used to adjust the AADT traffic volumes, are developed from data contained in the document, *2005 Pennsylvania Traffic Data*, as prepared by PENNDOT's Bureau of Planning and Research. The seasonal and daily factors provided in this document are based on statistical analyses of 2005 traffic counts taken at permanent and in-pavement ATR (automatic traffic recorder) locations throughout the state. The factors are used to adjust AADT volumes to an average day in each month, and the PPSUITE software calculates unique congested speeds for each roadway segment.

PPSUITE calculates congested speeds by hour of the day for each roadway segment and provides the information as input to the MOBILE6.2 software. To disaggregate the daily RMS volumes to hourly volumes, auto and truck hourly pattern data from PENNDOT's *2005 Pennsylvania Traffic Data* report are used to determine the temporal variations of future year traffic volumes.

Vehicle mix patterns are calculated for each county / functional class grouping utilizing a combination of 2002/2005 RMS truck percentages and MOBILE6.2 default vehicle mix distributions. The development of vehicle type pattern data input to the MOBILE6.2 software is described in more detail in **Appendix C-1**. The distribution of vehicles to fuel type (diesel, gas) is determined from the MOBILE6.2 default diesel sales fractions.

Vehicle age distributions are input to MOBILE6.2 for each county based on registered vehicles that reflect July 1 summer conditions. These distributions reflect the percentage of vehicles in the fleet up to 25 years old and are listed by the 16 composite MOBILE6 vehicle types. 2002 and 2005 vehicle age distributions have been used for this inventory from the PENNDOT Bureau of Motor Vehicles Registration Database. Due to insufficient data, only data for light-duty vehicles are used as local inputs. The heavy-duty vehicles use the internal MOBILE6.2 defaults.

Traffic Growth Assumptions

Traffic forecasting plays a pivotal role in estimating future year emissions for each Pennsylvania county and region. The expected volume of traffic, measured in vehicle miles of travel (VMT), needs to be estimated for each county, or group of counties, for each relevant future year. This becomes the basis for further disaggregation of VMT to the roadway types on which the miles are expected to occur, vehicle types and vehicle age.

This $PM_{2.5}$ inventory utilizes a VMT growth rate projection methodology developed by PENNDOT as documented in the report "*Statistical Evaluation of Projected Traffic Growth, Traffic Growth Forecasting System: Final Report, March 14, 2005*". As part of that study, a

statewide traffic growth forecasting system was developed that incorporates traffic data from PENNDOT's Traffic Information System and available socioeconomic forecasts. The study methodology has been shared among PENNDOT, DEP, and other interagency consultation group members, including the Pennsylvania Air Quality Work Group (which includes EPA, FHWA, and representatives from larger PA Metropolitan Planning Organizations (MPOs), and approved by PENNDOT. The methodology contains the following improvements over past statewide forecasting approaches:

- Strong statistical basis and consistent with state of the art.
- Thorough documentation of approach vs. alternatives.
- Increased data robustness through the inclusion of both county-level historical traffic trends from the PENNDOT Roadway Management System (RMS) databases (the basis for VMT reporting to the Federal Highway Administration of USDOT through the Highway Performance Monitoring System (HPMS) and county-based demographic projections from an independent 3rd party (Woods and Poole Economics, Inc.).
- Expedient and inexpensive update process.

The data inputs to the traffic growth forecasting system are periodically updated to produce revised forecast growth factors for each county in the state. The frequency of this update is at least every 5 years, consistent with EPA and FHWA "Latest Planning Assumptions" guidance.

The most recent available forecasts, used in the development of this inventory, include historic HPMS VMT through 2005 and use of the *2006 State Profile*, developed by Woods & Poole Economics. The *2006 State Profile* includes historical demographic data and forecasts by year from 1969 through 2030 for every county and Metropolitan Statistical Area (MSA) in Pennsylvania. The county VMT forecast growth rates are developed for four functional classifications in each county: urban interstate, urban non-interstate, rural interstate and rural non-interstate. The PENNDOT statistical VMT forecasting model incorporates historical VMT trends, socio and economic data (households, mean household income), and a relative measure of transportation capacity (lane miles per capita).

The forecasts used for this annual $PM_{2.5}$ emissions inventory have been developed to account for potential variability in future regional VMT growth. Variability from the base forecast may be caused by multiple factors which influence vehicle travel, many or most of which may be influenced by outside factors or events. The county-level growth rates from the PENNDOT VMT forecasting system have been evaluated to determine an overall regional growth rate for the nonattainment area. Growth rates were examined for counties within the nonattainment area and for nearby counties that might impact future conditions within the region.

Table 3 summarizes the assumed projected growth of VMT for future analysis years within the nonattainment area.

Table 3: Liberty-Clairton Nonattainment Area VMT Growth Assumptions

Analysis Year	Total Growth From 2002	Annualized Growth From Previous Analysis Year
Allegheny County (Partial)		

2002	-----	-----
2009	1.6%	0.22%

I/M and Fuel Parameters

The Inspection Maintenance (I/M) program inputs to the MOBILE6.2 model are based on past and current programs within the Liberty-Clairton area.

Pennsylvania's first inspection and maintenance (I/M) program was implemented in 1984 which required applicable vehicles to undergo an annual one-speed idle test. This basic I/M program applied to model-year 1975-1980 gasoline cars and light duty trucks up to 9,000 pounds GVW registered in the 5-county Philadelphia region (Bucks, Chester, Delaware, Montgomery and Philadelphia counties) and the 4-county Pittsburgh metropolitan region (Allegheny, Beaver, Washington and Westmoreland counties).

In October 1997, Pennsylvania began an enhanced I/M Program to include ASM 5015 tailpipe testing, two-speed idling test, gas cap and visual anti-tempering inspection. Model-year 1981 and newer cars and light duty trucks registered in the above nine counties in the Philadelphia and Pittsburgh regions are subject to the enhanced I/M Program. New model years are exempt for the first year.

The Commonwealth's I/M program was upgraded and expanded throughout the state with a phase-in period starting in December 2003 and fully implemented by June 2004. The program test requirements vary by region and include on-board diagnostics (OBD) technology that uses the vehicle's computer for model years 1996 and newer to download potential engine problems that could effect emissions. The program, named PAOBDII, is implemented in the Philadelphia, Pittsburgh, and South Central / Lehigh Valley Regions. The Northern Region receives gas cap and visual inspections and the other 42 counties in the Commonwealth receive a visual inspection. Vehicles subject to the program include 1975 and newer model year gasoline cars and light duty trucks up to 9,000 pounds GVW. New model years are exempt for the first year. The county of registration determines which inspections are required.

The Liberty-Clairton $PM_{2.5}$ nonattainment area is within Allegheny County in the Pittsburgh region where an I/M program is in place. The I/M program parameters for analysis year 2002 include:

Model Years	Program Parameters
1981 & newer	2500/Idle
1975 & newer	Gas Cap
1975 – 1980	Idle
1975 & newer	ATP

The 2009 I/M program parameters for the Liberty-Clairton nonattainment area include:

Model Years	Program Parameters
1996 & newer	PAOBDII Gas Cap
1981 – 1995	2500/Idle

1975 – 1995	Gas Cap
1975 & newer	ATP

The RVP values, varying by month, are consistent with values used for past inventory efforts. These assumptions, as well as the I/M program and fuel parameters, are summarized in **Appendix C-3**.

Weather Data

Updated weather information has been obtained from the National Climatic Data Center to calculate the minimum and maximum temperatures and absolute humidity data inputs to the MOBILE6.2 model. These assumptions are consistent with the 2005 NEI inventory submission. Average minimum and maximum temperatures and barometric pressure values for each month were obtained for each of the weather station locations in Pennsylvania. In addition, average relative humidity values were obtained for 6-hour intervals (4 intervals during a 24 day period) for each of the 12 months. Absolute humidity values by month were then calculated from the relative humidity, barometric pressure, and temperature for each of the 4 daily intervals using EPA's M6HUMID program. The lowest of these 4 values for each month is determined to be the absolute humidity for that month.

Other weather data required by MOBILE6.2 are assumed as the program defaults. These include the cloud cover, peak sun, and sunrise/sunset options.

Other Inputs

Federal Programs

Federal vehicle emissions control and fuel programs are incorporated into the MOBILE6.2 software. The programs include:

- The Federal Motor Vehicle Control Program (FMVCP) including the National Low Emission Vehicle Program (NLEV) and federal Tier II / Low Sulfur Fuel Program;
- Emissions standards for medium and heavy duty vehicles in 2002, 2004 and 2007;
- Stage II and Onboard Refueling Vapor Recovery (ORVR).
  Note: Pennsylvania considers emissions from refueling operations an area source category. While MOBILE6.2 is employed to calculate emissions factors for that source category, refueling emissions are not included in highway vehicle emissions estimations.

State Programs

The MOBILE6.2 software also allows for modeling of permissible state activities control emissions from highway vehicles.

In 1998, Pennsylvania promulgated the New Motor Vehicle Emissions Control Program. This program created the Pennsylvania Clean Vehicles Program that required new light-duty highway motor vehicles offered for sale within Pennsylvania to be certified by the California Air Resources Board (CARB) under that Board's Low Emitting Vehicle (LEV) program. The Pennsylvania Clean Vehicles Program does not require the California Zero Emitting Vehicle

(ZEV) requirement. As a compliance alternative to the Pennsylvania Clean Vehicles Program, automakers have elected to comply with the National Low Emission Vehicle (NLEV) program. The NLEV program began phase-in starting in model year 1999. The Pennsylvania rules allow the NLEV compliance option for the duration of Pennsylvania's participation in the NLEV program. Pennsylvania is in the process of amending the Pennsylvania Clean Vehicles Program to initiate in model year 2008. As a result, the modeling results assume a 2008 start year for the Pennsylvania Clean Vehicles Program. Benefits from this program are realized in 2008 and beyond.

The methodology employed to estimate the benefits of adopting CA LEV II emissions standards is consistent with the approach provided in the EPA's June 2002 Guidance (*Modeling Alternative NLEV Implementation and Adoption of California Standards in MOBILE6, June 5, 2002*). The approach assumes:

- Tier2 phase-in schedule consistent with MOBILE6.2 defaults
- LEVII phase-in schedule as provided in EPA's June 2002 Guidance
- Assumes PZEV and AT-PZEV vehicles share the same evaporative emissions as LEVII/Tier2 vehicles

Appendix C-4 contains the modified MOBILE6.2 files used to model the above assumptions. They are consistent with the June 2002 EPA guidance.

The federal Tier 2 / Low Sulfur Fuel Program took effect in 2004 and in practicality supplanted the NLEV program for new light-duty vehicles.

RESOURCES

Guidance for Creating Annual On-Road Mobile Source Emission Inventories for PM2.5 Nonattainment Areas for Use in SIPs and Conformity, US EPA Office of Transportation and Air Quality, dated August, 2005.

Consolidated Emissions Reporting, Federal Register, June 10, 2002

2005 Pennsylvania Traffic Data, PennDOT Bureau of Planning and Research, 2005.

User's Guide to MOBILE6.1 and MOBILE6.2, Mobile Source Emission Factor Model, EPA420-R-02-028, dated August 2003.

Technical Guidance on the Use of MOBILE6 for Emission Inventory Preparation, US EPA Office of Transportation and Air Quality, August 2004.

Policy Guidance on the Use of MOBILE6 for Emission Inventory Preparation, US EPA Office of Air and Radiation, January 18, 2002.

Modeling Alternative NLEV Implementation and Adoption of California Standards in MOBILE6, EPA, June 5, 2002.

Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation, US EPA Office of Air and Radiation, and Office of Transportation and Air Quality, August 2004.

Statistical Evaluation of Projected Traffic Growth, Traffic Growth Forecasting System: Final Report, Michael Baker Jr., Inc., March 14, 2005.

$PM_{2.5}$ SIP

Appendix G

MANE-VU Inventory and Projections Documentation

G-1: TSD for 2002 MANE-VU SIP Modeling

G-2: Development of Emissions Projections

G-3: Emissions Processing for 2002 OTC

G-4: Future Year Emissions Inventory for OTC

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G-1: TSD for 2002 MANE-VU SIP Modeling

TECHNICAL SUPPORT DOCUMENT FOR 2002 MANE-VU SIP MODELING INVENTORIES, VERSION 3

Prepared by
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November 20, 2006

for the
Mid-Atlantic/Northeast Visibility Union (MANE-VU)

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ACRONYMS AND ABBREVIATIONS

ATP	Anaerobic Thermal Processor
BEIS	Biogenic Emissions Inventory System
CAA	Clean Air Act
CAIR	Clean Air Interstate Rule
CAMD	Clean Air Markets Division
CAP	criteria air pollutant
CE	Control Equipment (NIF 3.0) table
CEM	Continuous Emissions Monitoring
CENRAP	Central Regional Air Planning Organization
CERR	Consolidated Emissions Reporting Rule
CMU	Carnegie Mellon University
CNG	compressed natural gas
CO	carbon monoxide
CO_2	carbon dioxide
EF	emission factor
EFIG	Emission Factors and Inventory Group
EGU	electricity generating unit
EI	inventory
EM	Emission (NIF 3.0) table
EP	Emission Process (NIF 3.0) table
EPA	U.S. Environmental Protection Agency
ERP	Emission Release Point (NIF 3.0) table
ETBE	ethyl tertiary butyl ether
ETOH	ethanol
ETS	Emission Tracking System
EU	Emission Unit (NIF 3.0) table
FIPS	Federal Information Processing Standard
FIRE	Factor Information and REtrieval Factor
GIS	geographic information system
GSE	ground support equipment
HAP	hazardous air pollutant
HC	hydrocarbon
HPMS	Highway Performance Monitoring System
ID	identification
IDA	Inventory Data Analyzer format
I/M	inspection and maintenance
km	kilometer
LAI	leaf area indices
LEV	low emission vehicle
LPG	liquified petroleum gas
MACT	maximum achievable control technology
MANE-VU	Mid-Atlantic/Northeast Visibility Union
MARAMA	Mid-Atlantic Regional Air Management Association
MTBE	methyl tertiary butyl ether
NAAQS	National Ambient Air Quality Standard
NAICS	North American Industrial Classification System

NEI	National Emissions Inventory
NH_3	ammonia
NIF	NEI Input Format
NMIM	National Mobile Inventory Model
NO	nitrous oxide
NO_x	oxides of nitrogen
NYSDEC	New York State Department of Environmental Conservation
ORIS	Office of Regulatory Information Systems
OTC	Ozone Transport Commission
PAR	photosynthetic active radiation
PE	Emission Period (NIF 3.0) table
Pechan	E.H. Pechan & Associates, Inc.
PFC	portable fuel container
PM	particulate matter
PM-CON	condensible PM
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PM10-FIL	filterable PM_{10}
PM10-PRI	primary PM_{10}
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers
PM25-FIL	filterable $PM_{2.5}$
PM25-PRI	primary $PM_{2.5}$
POTWs	public owned treatment works
ppm	parts per million
psi	pounds per square inch
QA	quality assurance
QAPP	Quality Assurance Project Plan
RPO	Regional Planning Organization
RVP	Reid vapor pressure
SCC	Source Classification Code
SPDPRO	speed profile
SPDREF	speed cross reference
SI	Site (NIF 3.0) table
SIC	Standard Industrial Classification
SIP	State Implementation Plan
S/L	State and Local
SMOKE	Sparse Matrix Operator Kernel Emissions
SO_2	sulfur dioxide
TAME	tertiary amyl methyl ether
TR	Transmittal (NIF 3.0) table
TSD	technical support document
U.S.	United States
VISTAS	Visibility Improvement State and Tribal Association of the Southeast
VMT	vehicle miles traveled
VOC	volatile organic compound
WRAP	Western Regional Air Partnership

CHAPTER I – INTRODUCTION

A. What is the purpose of this TSD?

This technical support document (TSD) explains the data sources, methods, and results for preparing Version 3 of the 2002 base year criteria air pollutant (CAP) and ammonia (NH_3) emissions inventories for point, area, onroad, nonroad, and biogenic sources for the Mid-Atlantic/Northeast Visibility Union (MANE-VU) Regional Planning Organization (RPO). The MANE-VU region includes Connecticut, Delaware, the District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont. Local air planning agencies include Philadelphia and Allegheny County, Pennsylvania. The region also includes the Penobscot Tribe of Maine Indian Nation (Tribal code 018) and the St. Regis Band of Mohawk Indians of New York (Tribal code 007). However, these tribal authorities did not provide any data for the 2002 MANE-VU inventory. MANE-VU will use these inventories to support air quality modeling, State Implementation Plan (SIP) development, and implementation activities for the regional haze rule and fine particulate matter (PM) and ozone National Ambient Air Quality Standards (NAAQS).

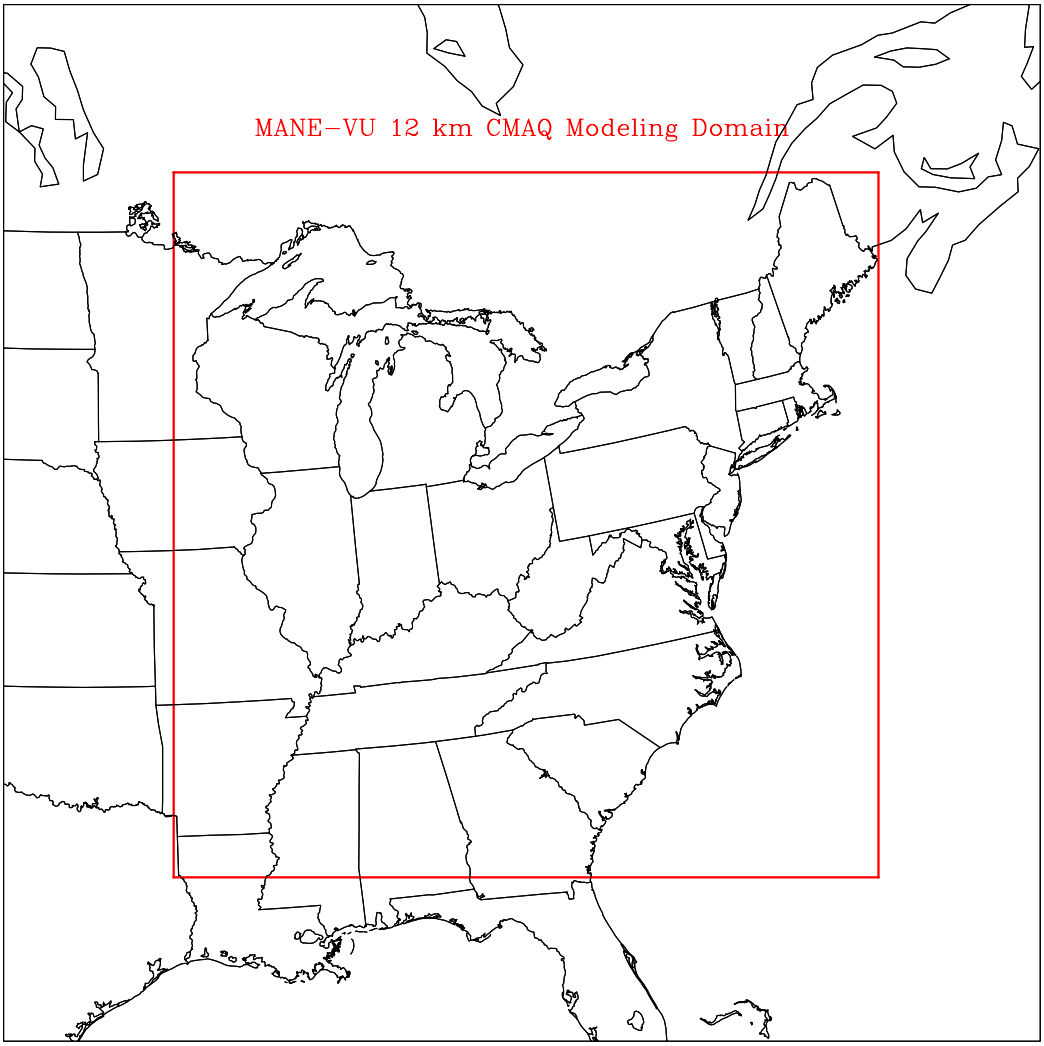
The inventories and supporting data prepared include the following:

(1) Comprehensive, county-level, mass emissions and modeling inventories for of 2002 emissions for CAPs and NH_3 for the State and Local (S/L) agencies included in the MANE-VU region;
(2) The temporal, speciation, and spatial allocation profiles for the MANE-VU region inventories;
(3) Inventories for wildfires, prescribed burning, and agricultural field burning for the southeastern provinces of Canada; and
(4) Inventories for other RPOs, Canada, and Mexico.

The mass emissions inventory files were prepared in the National Emissions Inventory (NEI) Input Format Version 3.0 (NIF 3.0). The modeling inventory files were prepared in Sparse Matrix Operator Kernel Emissions/Inventory Data Analyzer (SMOKE/IDA) format. Ancillary files (holding spatial, temporal, and speciation profile data) were prepared in SMOKE/IDA compatible format. Figure 1 shows the Models-3 Community Multiscale Air Quality Modeling System (CMAQ) modeling domain for the MANE-VU region.

The inventories include annual emissions for sulfur dioxide (SO_2), oxides of nitrogen (NO_x), volatile organic compounds (VOC), carbon monoxide (CO), NH_3, and particles with an aerodynamic diameter less than or equal to a nominal 10 and 2.5 micrometers (i.e., primary PM_{10} and $PM_{2.5}$). The inventories included summer day, winter day, and average day emissions. However, not all agencies included daily emissions in their inventories, and, for the agencies that did, the temporal basis for the daily emissions varied between agencies. The temporal profiles prepared for this project will be used to calculate daily emissions when not available in the inventory files.

Figure 1. MANE-VU 12-Kilometer CMAQ Modeling Domain



B. What are Versions 1, 2, and 3 of the 2002 MANE-VU Inventory?

Work on Version 1 of the 2002 MANE-VU inventory began in April 2004. The consolidated inventory for point, area, onroad, and nonroad sources was prepared by starting with the inventories that S/L agencies submitted to the United States (U.S.) Environmental Protection Agency (EPA) from May through July of 2004 as a requirement of the Consolidated Emissions Reporting Rule (CERR). The EPA's format and content quality assurance (QA) programs (and other QA checks not included in EPA's QA software) were run on each inventory to identify format and/or data content issues (EPA, 2004a). E.H. Pechan & Associates, Inc. (Pechan) worked with the MANE-VU S/L agencies and the staff of the Mid-Atlantic Regional Air Management Association (MARAMA) to resolve QA issues and augment the inventories to fill data gaps in accordance with the Quality Assurance Project Plan (QAPP) prepared for this project (MANE-VU, 2004a). MARAMA is the MANE-VU organization's employees, whereas

MANE-VU is the member S/L agencies plus MARAMA employees. MARAMA is one of three RPOs (in addition to Ozone Transport Commission (OTC) and North East States for Coordinated Air Use Management) supporting the MANE-VU effort.

A draft of the point and area source inventories and summary files were provided for stakeholder review during August 2004. Stakeholder comments were reviewed by the S/L agencies and revisions to the inventory files were made to the files to incorporate stakeholder comments as approved by each S/L agency. The inventories were finalized during December 2004 and the SMOKE input files were prepared and reviewed by the modelers during December 2004 and early January 2005. The final inventory and SMOKE input files were finalized during January 2005.

Work on Version 2 (covering the period from April through September 2005) involved incorporating revisions requested by some S/L agencies on the point, area, and onroad inventories. Work on Version 3 (covering the period from December 2005 through April 2006) included additional revisions to the point, area, and onroad inventories as requested by some states. Thus, the Version 3 inventory for point, area, and onroad sources were built upon Versions 1 and 2. This work also included development of the biogenics inventory. Version 3 of the nonroad inventory was completely redone due to changes that EPA made to the NONROAD2005 model.

C. How is this TSD organized?

Chapters II through V of this TSD present the general and State-specific methods and data sources used to develop Version 3 of MANE-VU's 2002 inventory for point, area, nonroad, and onroad sources. Chapter VI presents the methods, data sources, and model used to develop the biogenics inventory. Chapter VII documents the temporal allocation, speciation, and spatial allocation modeling input files used for Version 3 of MANE-VU's 2002 inventory for all sectors. Chapter VIII describes the non-MANE-VU region inventory data used for MANE-VU BaseB Modeling. References for the TSD are provided in Chapter IX. Appendices A and B provide the QA Summary Report files prepared during development of the State-specific inventories for point and area sources, respectively. Appendices A and B also provide tables that identify for each S/L agency, the Version 3 data sources, emission type period, pollutant, and the number of counties by source classification code (SCC). For the nonroad inventory, Appendix C provides the final county, monthly National Mobile Inventory Model (NMIM) inputs provided or confirmed by the States for Reid vapor pressure (RVP), weight percent oxygen, and gasoline sulfur.

CHAPTER II – POINT SOURCES

A. General Methods for all State and Local Agencies

1. What Data Sources Were Used?

Version 3 of the 2002 MANE-VU point source inventory is based primarily on Version 1 with some state-specific revisions incorporated into Versions 2 and 3. Version 1 was developed using the inventories that S/L agencies submitted to EPA from May through July of 2004 as a requirement of the CERR. All 12 State agencies submitted point source inventories to EPA. In addition, Allegheny and Philadelphia Counties in Pennsylvania each submitted their own point source inventories to EPA. The EPA performed some limited QA review of the S/L inventories to identify format, referential integrity, and duplicate record issues. The EPA revised the inventories to address these issues and made the files available to the S/L agencies on August 6, 2004. These inventory files were used as the starting point for Version 1 of the MANE-VU inventory. These inventory files were obtained from EPA, consolidated into a single data set, subjected to extensive QA review, revised (as approved by the MANE-VU S/L agencies) to address QA issues and to fill data gaps identified while preparing Version 1. Subsequently, the following agencies provided revisions to their point source inventories:

- Version 2 – Connecticut, Delaware, and Maryland
- Version 3 – Massachusetts, New York, and Rhode Island

The revisions that these states provided for Versions 2 and 3 are discussed in the "State-Specific Methods" section of this chapter.

In order to track the origin of data, the temporal period of emissions, and to facilitate generation of emission summaries, the following NIF plus fields were added to the Transmittal (TR), Site (SI), Emission Unit (EU), Emission Release Point (ER), Emission Process (EP), Emission Period (PE), Emission (EM), and Control Equipment (CE) tables:

- Data Source Codes:

Code	Description
S	State agency-supplied data.
L	Local agency-supplied data to incorporate S/L comments for individual records.
P	NH_3 emissions from MANE-VU inventory for cement kilns.
AUG-A	PM Augmentation: ad-hoc change.
AUG-C	PM Augmentation: standard augmentation method.
AUG-O	PM Augmentation: set PMxx-FIL = PMxx-PRI for SCCs starting with 10 (external fuel combustion) and 20 (internal fuel combustion). Note: emission factors and particle-size data for estimating condensible emissions for fuel combustion SCCs starting with 30 were not available; therefore, condensible emissions were not estimated for these processes

if an agency provided filterable and not primary emissions for these processes. In other words, the primary emissions were assumed to equal the filterable emissions.

AUG-Z PM Augmentation: automated fill-in of zero values where all PM for a particular process is zero.

- Revision Date: This field indicates the month and year during which the last revision was made to a record.

- State Federal Information Processing Standard (FIPS): This field indicates the state FIPS code of the submittal.

- County FIPS: This field indicates the county FIPS code of the submittal.

The following NIF plus fields were added to the EM table:

- Emission Ton Value: This field indicates the values of the emissions in tons. This field was used to prepare summaries of emissions on a consistent EU basis.

- Emission Type Period: This field indicates the period of the Emission Type – either ANNUAL or NONANNUAL. This field was used to prepare summaries of annual emissions.

- CAP_HAP: This field identifies records for CAP versus records for hazardous air pollutants (HAPs). For the MANE-VU inventory, the flag is CAP for all records.

- Year: This field indicates the year of the data; for this inventory, it is 2002.

Note that the QAPP for Version 1 includes more data source codes than were used in Version 3 of the point source inventory. The data source codes listed above are the codes used in Version 3. The exception is for Rhode Island, who requested that their Version 2 inventory be replaced with its inventory included in the final 2002 NEI prepared by EPA. Thus, for Rhode Island, it was agreed to maintain the data source codes used in the NEI in Version 3 of the MANE-VU inventory. The data source codes for Rhode Island's point source inventory are explained under the state-specific section for Rhode Island.

2. What Quality Assurance Steps Were Performed?

A QAPP was prepared and approved by MANE-VU/MARAMA and the EPA Regional Office prior to initiating work on Version 1 of the inventory (MANE-VU, 2004a). This QAPP was followed during preparation of all three versions of the inventory. This section provides an overview of the QA checks completed on each version of the inventory. The QA process for each S/L inventory involved the following steps:

- Conduct QA checks on each S/L inventory;
- Prepare a QA Summary Report for submittal to the agency for review;

- Revise the inventory to resolve QA issues as directed by the agency;
- Repeat the QA checks on the revised inventory to verify that the corrections were completed;
- Perform augmentation to correct for missing data; and
- Repeat the QA checks to verify that the augmentation was completed correctly.

a. QA checks for S/L agency inventories

The following discusses the QA diagnoses that were run on the consolidated point source inventory data set. For each S/L agency, a "QA Summary Report" was prepared for each QA check in an Excel Workbook file. The results of each QA check was summarized in a separate spreadsheet and submitted to the S/L agency for review and resolution. The agencies provided corrections to the data in the Excel files or via e-mail and the inventory was updated with the corrections.

i. Continuous Emissions Monitoring (CEM) Analysis

The goal of this analysis was to compare annual NO_x and SO_2 emissions that were measured with CEM systems and reported to EPA to the annual NO_x and SO_2 emissions reported in the S/L inventories. Facilities report hourly CEM data to EPA for units that are subject to CEM reporting requirements of the NO_x SIP Call rule and Title IV of the Clean Air Act (CAA). Thus, hourly CEM emissions were summed to the annual level and compared to the annual emissions in the S/L inventories. If the S/L agencies agreed, the CEM hourly emissions would be used to support air quality modeling to accurately reflect the temporal distribution of emissions from CEM units during 2002. Since some of the states require facilities to certify the emissions they report for inclusion in the inventory, the agencies needed proof that the emissions in the CEM inventory compared well with the emissions in the S/L inventory.

The 2002 CEM inventory containing hourly NO_x and SO_2 emissions and heat input data were downloaded from the EPA/Clean Air Markets Division's (CAMD) web site (www.epa.gov/airmarkets) on July 8, 2004 (CAMD, 2004). The data were provided by quarter and state resulting in 48 separate files for the 12 states in the MANE-VU region. For each state, the hourly emissions were summed to the annual level by facility and EU.

The first stage in the CEM analysis involved preparing a crosswalk file to match facilities and units in the CEM inventory to facilities and units in the S/L inventories. In the CEM inventory, the Office of Regulatory Information Systems (ORIS) identification (ID) code identifies unique facilities and the unit ID identifies unique boilers and internal combustion engines (i.e., turbines and reciprocating engines). In the S/L inventories, the state and county FIPS and state facility ID together identify unique facilities and the EU ID identifies unique boilers or internal combustion engines. However, in some of the S/L inventories, the emissions for multiple EUs were summed and reported under the same EU ID. Thus, an Excel Workbook was sent to the S/L agencies that contained an initial crosswalk with the ORIS ID and unit ID in the CEM inventory matched to the state and county FIPS, state facility ID, and EU ID in the S/L inventory. Agencies were asked to confirm/correct/supplement the information in the crosswalk. The initial crosswalk also contained annual emissions summed from the hourly CEM emissions and flags that indicated if

CEM units were subject to reporting requirements under the NO_x SIP Call and/or Title IV of the CAA. It should be noted that the initial matching of the IDs in both inventories was based on previous crosswalks that had been developed for the 1999 NEI and in-house information compiled by Pechan. The matching at the facility level was nearly complete; however, S/L agency assistance was needed to match most of CEM units to EUs in the S/L inventories.

The crosswalk was updated with corrections to facility and CEM unit-to-EU matches, and with new matches provided by the S/L agencies. The matching of each CEM unit to an EU was still incomplete. Consequently, the comparison of annual emissions was performed at the facility level.

The second stage in the CEM analysis was to prepare an Excel Workbook file for each S/L agency that compared the annual emissions summed from the hourly CEM inventory to the annual emissions reported in the S/L inventory. The file included three spreadsheets that compared annual emissions at the facility level, listed the facilities in the CEM inventory that could not be matched to the facilities in the S/L inventory, and listed the facilities in the S/L inventory identified as an electricity generating unit (EGU) that could not be matched to a facility in the CEM inventory. The Excel files were sent to the S/L agencies for review. The S/L agencies then indicated if they did or did not want to use the hourly CEM inventory.

The facility-level comparison of CEM to emission inventory NO_x and SO_2 emissions found that for some facilities, the annual emissions from the S/L inventory exceeded the CEM annual emissions because the facility in the S/L inventory contained more than just CEM units. This condition was determined to be acceptable. However, S/L agencies were asked to review data for facilities where the CEM emissions were higher than the emissions summed from the S/L inventory. For these cases, CEM emissions may be higher than those reported in a S/L inventory due to methods EPA uses for using artificially high default values to fill in hourly CEM data when not reported or when a CEM unit was not working properly.

After reviewing the comparison of the CEM to S/L inventory emissions, New York and Vermont elected to use the 2002 CEM inventory containing hourly NO_x and SO_2 emissions for all facilities. Maryland; New Hampshire; and Allegheny County, Pennsylvania elected to use the 2002 CEM data for some but not all of the facilities within their jurisdiction. The Excel Workbook files containing the comparison of CEM to S/L inventories provides a spreadsheet identifying the facilities for which these S/L agencies elected to use the CEM inventory.

Subsequent to the completion of this analysis, it was determined that the structure of the EPA/CAMD file would not be compatible with the format of the SMOKE input file. The database structure did not affect the annual emissions summed from the hourly CEM emissions used in the comparison to S/L inventory data. For each of the S/L agencies that elected to use the 2002 CEM data, CAMD agreed to provide separate database files for each state with a structure compatible with the SMOKE input file format. Pechan then used the crosswalk to add to the CEM inventory files the state and county FIPS, state facility ID, and EU ID (if the crosswalk contains a CEM unit to EU match) to the hourly CEM database files provided by CAMD. The modified database was then used to create the SMOKE input files for these states.

Note that Delaware requested that the 2002 CEM inventory for its facilities not be used for regional haze modeling. However, if the consolidated point source inventory prepared under this project is used to support ozone episode modeling, Delaware may consider using the CEM hourly data for the episodes modeled. Therefore, the 2002 CEM inventory was also processed for Delaware's facilities.

ii. PM Emissions Consistency and Completeness Review

The following consistency checks were performed at the EM table data key level (for annual emissions) to compare PM emissions:

- If a process was associated with a PM emission record, but was missing one or more of the following (as appropriate for the SCC [i.e., condensible PM (PM-CON) is associated with fuel combustion only]): filterable PM_{10} (PM10-FIL), primary PM_{10} (PM10-PRI), filterable $PM_{2.5}$ (PM25-FIL), primary $PM_{2.5}$ (PM25-PRI), or PM-CON, the record was flagged for review.

- The following equations were used to determine consistency:

  PM10-FIL + PM-CON = PM10-PRI
  PM25-FIL + PM-CON = PM25-PRI
  PM-FIL + PM-CON = PM-PRI

- The following comparisons were applied to determine consistency:

  PM10-PRI >= PM10-FIL
  PM25-PRI >= PM25-FIL
  PM10-PRI >= PM-CON
  PM25-PRI >= PM-CON
  PM10-FIL >= PM25-FIL
  PM10-PRI >= PM25-PRI
  PM-PRI >= PM10-PRI
  PM-PRI >= PM25-PRI
  PM-FIL >= PM10-FIL
  PM-FIL >= PM25-FIL

If the data failed one of these checks it was diagnosed as an error, summarized in an Excel Workbook file, and provided to the S/L agency for corrections. If a S/L agency did not provide corrections to these errors, the errors were corrected or filled in according to the augmentation procedures.

iii. ERP Coordinate Review

Location coordinates for point sources were evaluated using geographic information system (GIS) mapping to determine if the coordinates were within 0.5-kilometers of the boundary of the county in which the source was located. If not, the S/L agency was asked to review the coordinates and provide corrections to either the coordinates or the state and county FIPS codes. The 0.5-kilometer test resulted in a large number of ERPs for review by the agencies. Therefore, to assist S/L agencies in prioritizing their review of coordinates, ERP records with coordinates located more than 0.5, 1, 2, 3, 5, 7, and 10 or more kilometers from their county boundary, and coordinates that mapped outside of their state boundary were identified. Annual emissions summed to the ERP level were included in the QA Summary Report to identify records with zero emissions for all pollutants and to identify the highest emitting stacks. The QA Summary Report was provided to the S/L agency for review and corrections.

iv. ERP Parameter Review

The EPA's QA guidance for diagnosing ERP issues for the point source NEI (EPA, 2004b) was applied to identify QA issues in the S/L point source inventories. The QA guidance involved diagnosing the correct assignment of the ERP type (i.e., stack or fugitive), parameters with zero values, parameters not within the range of values specified in the EPA's QA procedures, and consistency checks (i.e., comparing calculated values against the values reported in the inventory). In many cases errors were caused by missing or zero values. In other cases, out-of-range errors were caused by unit conversion issues (e.g., stack parameters were in ft, ft/sec, cu ft/sec, or degrees Fahrenheit). The QA issues were summarized in a separate QA Summary Report for each agency and each agency was asked to provide corrections. If an agency did not provide corrections for out-of-range or missing values, the data were corrected or filled in according to the ERP augmentation procedures.

v. Control Device Type and Control Efficiency Data Review

The CE codes in the "Primary Device Type Code" and "Secondary Device Type Code" fields were reviewed to identify invalid codes (i.e., codes that did not exist in the NIF 3.0 reference table) and missing codes (e.g., records with a null or uncontrolled code of 000 but with control efficiency data).

QA review of control efficiency data involved diagnosis of two types of errors. First, records were reviewed to identify control efficiency values that were reported as a decimal rather than as a percent value. Records with control efficiencies with decimal values were flagged as a potential error (although not necessarily an error, since the real control efficiency may be less than 1%).

The second check identified records where 100% control was reported in the CE table, but the emissions in the EM table were greater than zero and the rule effectiveness value in the EM table was null, zero, or 100% (implying 100% control of emissions). Because many agencies did not populate the rule effectiveness field or a default value of zero was assigned, records with null or zero rule effectiveness values were included where the CE was 100% and emissions were greater

than zero. The records that met these criteria were summarized in a QA Summary Report for review and correction, if necessary, by the S/L agency.

vi. Start and End Date Checks

QA review was conducted to identify start date and end date values in the PE and EM tables to confirm consistency with the inventory year in the TR table, and to confirm that the end date reported was greater than the start date reported. This check did not identify any QA issues in the three versions of the inventory.

vii. Annual and Daily Emissions Comparison

The following QA checks were conducted to identify potential errors associated with the incorrect reporting of daily and/or annual emissions:

- Any "DAILY" type record that is greater than its associated "ANNUAL".

A review of the daily vs. annual comparison revealed that in many cases, the daily value was nonzero (but very small), but the annual value was zero. This was generally a result of rounding in a S/L agency's original emissions database, where annual records were recorded in tons per year to a set number of decimal places, while the corresponding daily records were recorded in pounds per year to a set number of decimal places. The annual record rounds to zero in the original database, while the daily value remains non-zero. A tolerance check reveals the following (comparison in tons):

- Difference Tolerance (daily - annual)> 0
- Difference Tolerance (daily - annual)> .000001
- Difference Tolerance (daily - annual)> .00001
- Difference Tolerance (daily - annual)> .0001
- Difference Tolerance (daily - annual)> .001
- Difference Tolerance (daily - annual)> .01

For Version 1, the affected S/L agencies were as follows:

- Connecticut (09) 11 records
- Maine (23) 4 records
- Maryland (24) 72 records
- New Jersey (34) 2935 records
- Pennsylvania Allegheny County (42003) 17 records
- Pennsylvania Philadelphia County (42101) 146 records
- Rhode Island (44) 1 record

Rhode Island, Philadelphia, and New Jersey responded that the dailies that were greater than the annuals could be deleted. Maryland determined that they should be kept since the difference values were small. The records for the remaining S/L agencies were kept. This QA issue only occurred during processing of Version 1.

b. Responses from S/L agencies

Each S/L agency reviewed its "QA Summary Report" files and the S/L agency provided direction for correcting QA issues either in the QA Summary Report Excel files or via e-mail. The inventory was then revised to incorporate responses from each agency and the QA checks were run again to verify that the QA issues were addressed. If an agency responded to a QA issue by e-mail, the direction was recorded in the "QA Summary Report" file. The "QA Summary Report" file for each S/L agency was updated to document QA issues and resolution of issues associated with developing Versions 2 and 3 of the point source inventory. The "QA Summary Report" files for Version 3 are provided with this report in a separate zip file. The files in the zip file are organized in separate folders for each S/L agency. Each folder includes a separate Excel workbook file for the following QA checks if a QA issue existed:

- PM Augmentation QA Summary;
- Stack Parameter QA Summary;
- Stack Coordinates QA Summary;
- Stack Parameter and Coordinate Augmentation Summary;
- CEM Comparisons and Revisions; and
- Control Device/Efficiency Summary.

c. Gap Filling and Augmentation

The following discusses the augmentation procedures that were used to fill in missing data that were not supplied by the S/L agencies. The S/L agencies approved the procedures before they were applied. These procedures were applied after revising the inventory to address QA issues as directed by each S/L agency.

i. MANE-VU-Sponsored Inventories

MANE-VU prepared a 2002 NH_3 emissions inventory for cement kilns for SCCs 30500606 and 30500706 located in four MANE-VU states. Maryland chose to add one new facility 24013/0012 (state and county FIPS code/facility ID). New York chose to add the following three sites 36001/4010300016, 36001/4012400001, and 36111/3514800084. Maine and Pennsylvania chose not to add emissions from this inventory. The data for Maryland and New York were added to Version 1. These data were not changed in Versions 2 and 3 of the point source inventory.

ii. PM Augmentation

The PM augmentations process gap-fills missing PM pollutant complements. For example, if a S/L agency provided only PM10-PRI pollutants the PM augmentation process filled in the PM25-PRI pollutants. The steps in the PM augmentation process were as follows:

- Step 1: Initial QA and remediation of S/L provided PM pollutants;

- Step 2: Development of PM factor ratios based on factors from the Factor Information and REtrieval (FIRE) Data System, version 6.2, and the PM Calculator (EPA, 2003a; EPA, 2004c);
- Step 3: Implementation of the ratios developed in step 2.; and
- Step 4: Presentation of PM augmentation results to S/L agencies for review and comment.

An Access database (named *Reference Tables for PM Augmentation*) accompanies this document. This database contains the SCC Control Device Ratio table, the Emission Factors table, and Emission Factors Crosstab table discussed in Step 2. The Emission Factors Crosstab table contains the ratios developed from the Emission Factors table. The Emission Factors table contains detailed information on the emission factors used to develop the ratios. The PM Calculator ratio table can be provided upon request – it contains all possible combinations for SCC and Control Device types that are available in the PM Calculator. Ratios from the PM calculator were developed using a standard input of 100 TONS of uncontrolled PM-FIL emissions.

1. Initial QA and Remediation of PM Pollutants

S/L agencies were initially presented with files that detailed potential inconsistencies and missing information in their PM pollutant inventory. Inconsistencies in PM pollutants include the following:

- PM-PRI less than PM10-PRI, PM25-PRI, PM10-FIL, PM25-FIL, or PM-CON;
- PM-FIL less than PM10-FIL, PM25-FIL;
- PM10-PRI less than PM25-PRI, PM10-FIL, PM25-FIL or PM-CON;
- PM10-FIL less than PM25-FIL;
- PM25-PRI less than PM25-FIL or PM-CON;
- The sum of PM10-FIL and PM-CON not equal to PM10-PRI; and
- The sum of PM25-FIL and PM-CON not equal to PM25-PRI.

Potential missing information was summarized in a table which detailed the variety of cases provided by each S/L agency. For example, an S/L agency might have provided PM10-FIL and PM25-FIL for some processes, but provided only PM10-FIL for other processes.

S/L agencies were asked to review this information and provide corrections where possible. In general, corrections (or general directions) were provided in the case of the potential inconsistency issues. An example of a general direction provided by a S/L agency was to remove PM25-FIL where greater than PM10-FIL because the PM10-FIL was (in their particular case) known to be more reliable. In other cases, the agency-provided specific process-level pollutant corrections. If specific direction was not provided by the agency, zero PM pollutants were generally removed, or complements were set equal to the higher number.

2. Development of PM Factor Ratio

The primary deliverable of this step of the process was the development of a table keyed by SCC, primary control device, and secondary control device. This table is called the SCC Control Device Ratios table (see Table II-1). This table was filled according to the following steps:

- Ratios (both condensible and noncondensible) were added from FIRE for SCCs starting with 10* (external fuel combustion) and 20* (internal fuel combustion) where there was a direct match between the provided SCC, and primary and secondary control devices.

- Ratios (non-condensable) were added from the PM Calculator for SCCs starting with 10* and 20* where there was not a direct match between the provided SCC, and primary and secondary control devices. Condensible ratios were added from the PM Calculator based on the uncontrolled SCC for these SCCs. In some cases, it was necessary to map the SCC and control devices to the PM calculator to find a match for the noncondensible ratios. In other cases, it was necessary to map the SCC to FIRE to find a match for condensible ratios.

- For natural gas, process gas, and liquified petroleum gas (LPG) SCCs starting with 10* and 20*, it was assumed (based on FIRE emission factors) that the PM-PRI/PM10-PRI/PM25-PRI ratio was equal to 1. It was also assumed that the PM-FIL/PM10- FIL /PM25- FIL was equal to 1. Condensible ratios were calculated from uncontrolled FIRE emission factors for these SCCs. In some cases it was necessary to map the SCC to FIRE to find a match for condensible ratios.

- Ratios for SCCs not like 10* and 20* were obtained from the PM Calculator. It was assumed that the condensible component was zero.

Table II-1. Description of the Field Names and Descriptions for the SCC Control Device Ratios Table

Field Name	Field Description
PM Calculator	A “Yes” in this field indicates that at least some of the information was retrieved from the PM Calculator
FIRE	A “Yes” in this field indicates that at least some of the information was retrieved from the Emission Factors table. A “Condensible Ratios” in this field indicates that the condensible ratios factors were retrieved from this table.
Other	A field to indicate other sources as necessary.
SCC	Source category code from the S/L agency-provided data.
SCC_DESC	Description of source category code from the S/L agency-provided data.
maptoSCC	This field equals SCC unless the SCC provided was not found in the appropriate source table. In that case, the SCC was mapped using the closest available appropriate mapping choice.
maptoSCC_DESC	Description of the maptoSCC.
mapSCCNote	Any notes related to the mapping of the SCC. A “Yes” in this field indicates that the SCC was mapped.
PD	Primary device type from the S/L agency provided data.
PD_DESC	Description of the primary device (PD).
maptoPD	This field equals PD unless the PD provided was not found in the appropriate source table. In that case, the PD was mapped using the closest available appropriate mapping choice.
maptoPD_DESC	Description of the maptoPD.
mapPDNote	Any notes related to the mapping of the PD. A “Yes” in this field indicates that the PD was mapped.
SD	Secondary device type from the S/L agency provided data.
SD_DESC	Description of the secondary device (SD).
maptoSD	This field equals SD unless the SD provided was not found in the appropriate source table. In that case, the SD was mapped using the closest available appropriate mapping choice.
maptoSD_DESC	Description of the maptoSD.
mapSDNote	Any notes related to the mapping of the SD. A “Yes” in this field indicates that the SD was mapped.
PM-FIL/PM10-FIL	This field and the following are ratios calculated from emission factors found either in FIRE or the PM calculator.
PM-FIL/PM25-FIL	This field and the following are ratios calculated from emission factors found either in FIRE or the PM calculator.
PM-FIL/PM-PRI	This field and the following are ratios calculated from emission factors found either in FIRE or the PM calculator.
PM-PRI/PM10-PRI	This field and the following are ratios calculated from emission factors found either in FIRE or the PM calculator.
PM-PRI/PM25-PRI	This field and the following are ratios calculated from emission factors found either in FIRE or the PM calculator.
PM10-FIL/PM25-FIL	This field and the following are ratios calculated from emission factors found either in FIRE or the PM calculator.
PM10-PRI/PM25-PRI	This field and the following are ratios calculated from emission factors found either in FIRE or the PM calculator.
PM-CON/PM10-FIL	Condensible ratios were calculate from FIRE if available for 10* and 20* SCCs. If condensible ratios were not found in FIRE for 10* and 20* these ratios were set to zero.
PM-CON/PM10-PRI	Condensible ratios were calculate from FIRE if available for 10* and 20* SCCs. If condensible ratios were not found in FIRE for 10* and 20* these ratios were set to zero.
PM-CON/PM25-FIL	Condensible ratios were calculate from FIRE if available for 10* and 20* SCCs. If condensible ratios were not found in FIRE for 10* and 20* these ratios were set to zero.
PM-CON/PM25-PRI	Condensible ratios were calculate from FIRE if available for 10* and 20* SCCs. If condensible ratios were not found in FIRE for 10* and 20* these ratios were set to zero.
PM-CON/PM-FIL	Condensible ratios were calculate from FIRE if available for 10* and 20* SCCs. If condensible ratios were not found in FIRE for 10* and 20* these ratios were set to zero.
PM-CON/PM-PRI	Condensible ratios were calculate from FIRE if available for 10* and 20* SCCs. If condensible ratios were not found in FIRE for 10* and 20* these ratios were set to zero.
RPO Specific Note	Indicates SCC and control device combinations are in the RPO inventory.
Additional Notes	Any notes regarding assumptions about ratios.

3. Implementation of the QA Ratios

In order to calculate the additional PM pollutants based on the SCC Control Device ratio table developed in the above step, a crosstab table was created from the EM table based on the following fields:

- State FIPS
- County FIPS
- Tribal Code
- EU ID
- Process ID
- Start Date
- End Date
- Emission Type
- SCC
- Primary Device Type
- Secondary Device Type

The primary and secondary device type fields were added based on information from the CE table. If CE information was not available these fields were defaulted to 000 ("UNCONTROLLED"). In the few cases where there was a conflict between the control devices reported for the same process for PM pollutants (e.g., a PM10-PRI is listed as controlled, but PM-PRI did not have control information), the control device type was selected based on the controlled pollutant.

In addition to the fields listed above, the crosstab included the PM emission amounts for the particular process and a field that indicated whether those emissions existed in the inventory. These fields were as follows:

- PM_PRI
- PM_FIL
- PM10_PRI
- PM10_FIL
- PM25_PRI
- PM25_FIL
- PM_CON
- PM_PRI_EXISTS
- PM_FIL_EXISTS
- PM10_PRI_EXISTS
- PM10_FIL_EXISTS
- PM25_PRI_EXISTS
- PM25_FIL_EXISTS
- PM_CON_EXISTS

The emission values were in the PM_PRI, PM_FIL, PM10_PRI, PM10_FIL, PM25_PRI, PM25_FIL, PM_CON fields. The _EXISTS field indicated whether the pollutant was provided by the S/L agency. A zero indicated that the pollutant was not provided; a number greater than zero (usually one) indicates that it was provided by the S/L agency.

Prior to the development of this crosstab, the EM table was filled in as much as possible using basic assumptions. For example, if the S/L agency provided zero emissions for some but not all forms of PM for a particular process, it was assumed that all forms of PM for that process were zero and they were filled in accordingly. Since that assumption was that for non 10* and 20* SCCs, the condensible value was zero – that would lead to PM10-FIL = PM10-PRI and PM25-FIL = PM25-PRI and PM-FIL = PM-PRI. Given that assumption, values for these pollutants were also filled in. After this data insertion, a subset of the crosstab was created. This subset only contained processes that required additional augmentation. The SCC Control Device Type ratio table was based on only those SCC and control device types that required augmentation.

The next step was to fill in the missing information in this crosstab using the information found in the SCC Control Device Ratio table.

In calculating PM complement pollutants, priority was given to calculating –PRI and –CON pollutants. FIL pollutants were only calculated if necessary to calculate other pollutants or if it was a by-product of this calculation.

In augmenting the PM pollutants, the non 10* and 20* SCCs were augmented first, with order given to augmenting based on PM_{10} where available, $PM_{2.5}$ where available, and then PM.

Augmenting the PM pollutants for the 10* and 20* SCCs is more complicated, but the basic approach was to augment based on PM_{10} (FIL or PRI) where available, $PM_{2.5}$ (FIL or PRI) where available, and then PM (FIL or PRI) if PM_{10} or $PM_{2.5}$ variations were not available. Where both PM_{10} (FIL or PRI) and $PM_{2.5}$ (FIL or PRI) variations were both available, the calculation for PM-CON was generally driven from the PM_{10} number and the complements as necessary were back calculated. Where a PRI emission factor ratio was required and was not available, the FIL emission factor ratio was used.

After completing the calculations, the data was QA checked to ensure that the calculations resulted in consistent values for the PM complement. On a few occasions, the mix of ratio value and the pollutants and values provided by the S/L agency resulted in negative values when FIL was back-calculated. In this case the negative FIL value was set to zero and the PRI value was readjusted. In a few cases the appropriate combination of ratios, SCC, and control efficiencies were not available to calculate the PM10-PRI and PM25-PRI values. In these cases, PM10-PRI and PM25-PRI were set equal. The resultant PM table information was appended to the EM table.

Note: The augmentation procedures resulted in some high condensible ratios that were calculated for some SCC control device type combinations. In most cases, these high condensible ratios were the result of the back calculation of PM-CON from PMxx-PRI records.

Since the state had already provided the PMxx-PRI records, these PM-CON values were not added.

The data source code field was used to identify records that were added to the inventory to complete the set of PM10-PRI and PM25-PRI emissions.

iii. ERP Coordinates

If an S/L agency did not provide corrections for ERP coordinates that map more than 5 km outside of the county boundary, or provide coordinates for ERP records that did not have any coordinates in the S/L inventory, the following procedures were applied to replace the coordinates:

- Coordinates for other ERPs at the same facility, if available, that map within the county;
- Coordinates for the centroid of the zip code for a facility if a valid zip code was provided or could be obtained from the agency if it is not valid; or
- County centroid coordinates.

The zip code was taken from the SI NIF 3.0 table. The zip code was compared to a reference table of valid zip codes to verify that it was an active zip code and existed in the state and county reported in the inventory. If a valid zip code for a facility could not be identified, the centroid for the facility's county was used as a last resort. In some cases, the S/L agency provided confirmation that the S/L coordinates were correct even if the analysis indicated that the coordinates were outside of the county. These coordinates were not changed. Additionally, all coordinates were converted to latitude/longitude measurements.

iv. ERP Parameters

If valid ERP parameters were not provided by the S/L agency, the ERP augmentation procedures that EPA developed for the 2002 point source NEI were applied to the MANE-VU inventory (EPA, 2004b). It has been determined that the augmentation procedures in this document regarding SCC-specific ERP types and temperatures may be difficult to resolve. When this situation occurs, preference was given to the S/L agency -supplied ERP type and SCC. For example, the procedures do not account for cases where an EU has two processes with one defined as a stack source and the other as a fugitive source. Therefore, the S/L-supplied ERP type was used when this situation occurred. If the ERP type was null, and information was not available from the S/L agency, the stack height information was used as a guide. If stack height information was available, the ERP was treated as a stack, if stack height information was not available, the ERP was treated as a fugitive. An additional modification to the augmentation procedure was also implemented. Since in many cases null values were filled in with zeros by S/L local databases when comparing out-of-range velocities and flows (after it was determined that the stack and diameter information was correct) – null and zero values were treated in the same manner to prevent inappropriate replacement of stack parameter values. Additionally, stack parameter values were rounded to 1 decimal place when comparing with range values (just

for the purposes of comparison) to prevent replacement of S/L parameter values based on negligible decimal differences.

v. Control Device Type and Control Efficiency Data

Control efficiencies that were 100% and rule effectiveness of 100% with non-zero emissions were diagnosed as potential errors and sent to the S/L agencies. Where possible these data were updated with S/L data corrections. Decimal control efficiencies were also diagnosed and sent to the S/L agencies. A decimal control efficiency was usually a sign that a control efficiency had not been entered as a percentage as is required by NIF 3.0. Where possible these data was updated with S/L data corrections.

c. QA Review of Final Inventory

Final QA checks were run on the revised point source inventory data set to ensure that all corrections provided by the S/L agencies were incorporated into the S/L inventories and that there were no remaining QA issues that could be addressed during the duration of the project. The EPA QA program was run on the inventory and the QA output was reviewed to verify that all QA issues that could be addressed were resolved. The QA output file was provided in an Access database along with Version 3 of the inventory.

3. Version 3 Emissions Summary

Table II-2 presents a State-level summary of the annual point source emissions in Version 3 of the 2002 MANE-VU inventory. Note that PM10-PRI and PM25-PRI emissions are included in the inventory for all SCCs for which S/L agencies reported any form of PM, PM_{10}, and/or $PM_{2.5}$ emissions. If an agency did not report PM10-PRI and/or PM25-PRI but reported PM-PRI, PM-FIL, PM-CON, PM10-FIL, and/or PM25-FIL, the PM augmentation procedures discussed in the TSD were applied to the form of PM emissions supplied by the agency to calculate emissions for the other forms of PM emissions. If an agency reported PM10-PRI and/or PM25-PRI emissions but not PM10-FIL, PM25-FIL, or PM-CON emissions, the agency's inventory was not augmented to calculate filterable or condensible emissions. Note that PM-CON is associated with only fuel combustion sources.

Table II-2. Version 3 2002 MANE-VU Point Source Emissions by State (Tons/Year)

State	CO	NH_3	NO_x	PM10-FIL	PM10-PRI	PM25-FIL	PM25-PRI	PM-CON	SO_2	VOC
Connecticut	4,053		12,923	738	1,617	0	1,283	389	15,988	4,907
Delaware	9,766	196	16,345	2,466	4,217	1,919	3,666	1,750	73,744	4,755
District of Columbia	248	4	780	91	161	54	132	68	963	69
Maine	17,005	845	19,939	4,535	7,289	2,567	5,787	2,753	23,711	5,319
Maryland	99,024	305	95,328	3,723	9,029	0	5,054	2,018	290,927	6,184
Massachusetts	21,262	1,463	47,086	2,776	5,852	997	4,161	2,984	101,049	8,263
New Hampshire	2,725	74	9,759	1,180	3,332	786	2,938	2,151	46,560	1,599
New Jersey	12,300		51,593	2,928	6,072	2,543	4,779	3	61,217	14,401
New York	66,427	1,861	118,978	1,808	10,392	1,965	7,080	210	294,729	11,456
Pennsylvania	121,524	1,388	297,379	18,044	40,587	6,038	20,116	5,065	995,175	37,323
Rhode Island	2,234	58	2,764	233	300	117	183	68	2,666	1,928
Vermont	1,078		787	130	304	97	267	2	905	1,097
MANE-VU	**357,645**	**6,194**	**673,660**	**38,654**	**89,150**	**17,083**	**55,447**	**17,462**	**1,907,634**	**97,300**

B. State-Specific Methods

For each of the MANE-VU states and two local agencies in Pennsylvania, this section identifies the temporal basis of the emissions included in Version 3 and discusses revisions incorporated into Version 3. In addition, this section also discusses the origin of each S/L agency's emissions included in Version 3. For each agency, a table is provided in Appendix A that lists the data source codes by SCC, emission type period, and pollutant. In addition, an electronic folder is provided for each S/L agency containing the QA Summary Reports prepared during Version 1 and other files documenting revisions included in Versions 2 and 3.

1. Connecticut

Connecticut's Version 3 point source inventory originates from Version 1 except for the following revisions that Connecticut provided for Version 2 and included in Version 3:

- Changed coordinates for AES Thames, Inc. in New London County to -72.3184, 41.4499 (FIPS code 09011, facility identifier 1544).

- Changed values for Hartford Steam (FIPS code 09003, facility identifier 3471), EU P0250, process 02 for summer daily values as follows: Changed actual throughput from 1934 E6FT3 to 1.934 E6FT3, CO summer daily emissions from 53.185 tons to 0.0532 tons, NO_x summer daily emissions from 255.288 tons to 0.1021 tons, and VOC summer daily emissions from 1.2569 tons to 0.0027 tons.

Table II-3 shows the emission type periods for which Connecticut provided emissions.

Table II-3. Connecticut 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20011201	20020228	27
NONANNUAL	20011201	20020228	29
NONANNUAL	20020601	20020831	27
NONANNUAL	20020601	20020831	29

Table A-1 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Connecticut provided the data for CO, NO_x, PM10-PRI, SO_2, and VOC. Connecticut did not provide any data for NH_3. Emissions for PM10-FIL, PM25-PRI, PM25-FIL, and PM-CON were calculated from the PM10-PRI emissions provided by Connecticut using the PM augmentation procedures.

2. Delaware

Delaware's Version 3 point source inventory originates from Version 1 except for some updates to ORIS Boiler IDs in the EU table that were incorporated into Version 2 and included in Version 3. Table II-4 shows the emission type periods for which Delaware provided emissions.

Table II-4. Delaware 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20020601	20020831	29

Table A-2 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Delaware provided the data for CO, NH_3, NO_x, SO_2, and VOC. Delaware also provided much of the PM emissions data but in some cases the PM augmentation procedures were applied to the PM data provided by Delaware to calculate emissions for other forms of PM (e.g., to estimate PM10-PRI from PM10-FIL, PM25-PRI from PM25-FIL, PM10-PRI and PM10-FIL from PM25-PRI and PM25-FIL).

3. District of Columbia

The District of Columbia's Version 3 point source inventory originates from Version 1. Table II-5 shows the emission type period for which the District of Columbia provided emissions.

Table II-5. District of Columbia 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Type

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30

Table A-3 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. The District of Columbia provided the data for CO, NH_3, NO_x, SO_2, and VOC. The District of Columbia provided at least one form of PM emissions and the PM augmentation procedures were applied to the emissions provided by the District of Columbia to calculate emissions for the other forms of PM.

4. Maine

Maine's Version 3 point source inventory originates from Version 1. Table II-6 shows the emission type periods for which Maine provided emissions.

Table II-6. Maine 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20020601	20020831	29

Table A-4 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Maine provided the emissions data for CO, NH_3, NO_x, SO_2, and VOC. Maine provided PM10-FIL and/or PM25-FIL emissions data and the PM augmentation procedures were applied to the emissions that Maine provided to calculate emissions for the other forms of PM.

5. Maryland

Maryland's Version 3 point source inventory originates from Version 1 except for some updates to ORIS Boiler IDs in the EU table that were incorporated into Version 2 and included in Version 3. Table II-7 shows the emission type periods for which Maryland provided emissions.

Table II-7. Maryland 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
ANNUAL	20040101	20041231	30
NONANNUAL	20020101	20021231	29
NONANNUAL	20020501	20020930	29
NONANNUAL	20040101	20041231	29

Table A-5 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Maryland provided the emissions data for CO, NH_3, NO_x, SO_2, VOC, PM10-PRI, and PM-PRI. The PM augmentation procedures were applied to the PM10-PRI emissions that Maryland provided to calculate emissions for the other forms of PM. Maryland provided NH_3 emissions for its point sources except for one new facility (state and county FIPS code 24013, facility ID 0012, SCC 30500622, data source code P) for which it used NH_3 emissions for four EUs (preheater kiln/dry process) prepared by MANE-VU.

6. Massachusetts

Massachusetts' Version 3 point source inventory originates from Version 1 except for the some stack parameter revisions that Massachusetts provided and were incorporated into Version 3. For Version 3, Massachusetts provided revisions to stack parameters in the ERP table for six EUs at three facilities. The revisions are listed in the Excel file named "MA Revisions to MANEVU V3 Point EI_040706.xls". Table II-8 shows the emission type periods for which Massachusetts provided emissions.

Table II-8. Massachusetts 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
ANNUAL	20030101	20031231	30

Table A-6 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Massachusetts provided the emissions data for CO, NH_3, NO_x, SO_2, and VOC. Massachusetts provided PM-FIL, PM10-FIL, and/or PM25-FIL emissions data and the PM augmentation procedures were applied to the emissions that Massachusetts provided to calculate emissions for the other forms of PM.

7. New Hampshire

New Hampshire's Version 3 point source inventory originates from Version 1. Table II-9 shows the emission type periods for which New Hampshire provided emissions.

Table II-9. New Hampshire 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20020601	20020831	29

Table A-7 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. New Hampshire provided the emissions data for CO, NH_3, NO_x, SO_2, and VOC. New Hampshire provided PM-FIL, PM10-FIL, and/or PM25-FIL emissions data and the PM augmentation procedures were applied to the emissions that New Hampshire provided to calculate emissions for the other forms of PM.

8. New Jersey

New Jersey's Version 3 point source inventory originates from Version 1. In addition to the QA checks discussed previously in this TSD, New Jersey's original inventory submittal to EPA contained several issues with SCCs. For Version 1, per direction provided by New Jersey, SCCs that were less than 8 digits were changed to SCCs with 8 digits. Also, as approved by New Jersey, inactive SCC 39999901 was changed to active SCC 39999999. The invalid unit "GAL" was changed to the valid unit "E6GAL" in the EP table.

Table II-10 shows the emission type periods for which New Jersey provided emissions.

Table II-10. New Jersey 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20011201	20020228	29
NONANNUAL	20020601	20020831	29

Table A-8 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. New Jersey provided the emissions data for CO, NO_x, SO_2, and VOC. New Jersey provided PM-PRI, PM10-PRI, and/or PM25-PRI emissions data and the PM augmentation procedures were applied to the emissions that New Jersey provided to calculate emissions for the other forms of PM. New Jersey did not provide any data for NH_3.

9. New York

New York's Version 3 point source inventory originates from Version 1 except for the following revisions that New York provided and were incorporated into Version 3.

For Version 3, New York provided an Access database named "MANEVU_NY2002_ Point_Corrected_093005.mdb" with revisions to records in the EM table. New York also provided in this database 651 records that were not included in Version 2 of MANE-VU's point source inventory, and, therefore, these records were added to Version 3 of MANE-VU's point source inventory. The new records added emissions for pollutants (not in Version 2) for EUs and processes that existed in Version 2 of MANE-VU's point source inventory.

The records in Version 2 that were revised and the records that were added to Version 3 are listed in the Excel file named "NY Revisions to MANE-VU V3 Point EI_040706.xls". Table II-11 shows the emission type period for which New York provided emissions.

Table II-11. New York 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Type

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30

Table A-9 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. New York provided the emissions data for CO, NH_3, NO_x, SO_2, and VOC. New York provided PM-PRI, PM10-PRI, and/or PM25-PRI emissions data and the PM augmentation procedures were applied to the emissions that New York provided to calculate emissions for the other forms of PM. New York provided NH_3 emissions for its point sources except for four cement kilns for which it used NH_3 emissions from a MANE-VU-sponsored inventory. The following identifies the facilities for which the MAEN-VU-sponsored NH_3 emissions inventory for cement kilns was used.

FIPS Code	Facility ID	SCC	Data Source
36001	4010300016	30500606 (2 kilns/dry process)	P
36001	4012400001	30500706 (1 kiln/wet process)	P
36111	3514800084	30500606 (1 kiln/dry process)	P

10. Pennsylvania (State, Excluding Allegheny and Philadelphia Counties)

The Version 3 point source inventory for the state of Pennsylvania originates from Version 1. The following summary excludes Allegheny and Philadelphia Counties who provided their own point source inventories for Versions 1, 2, and 3.

Table II-12 shows the emission type periods for which Pennsylvania provided emissions. Table A-10 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Pennsylvania provided the emissions data for CO, NH_3, NO_x, SO_2, and VOC. Pennsylvania provided PM10-PRI and/or PM25-PRI emissions data and the PM augmentation procedures were applied to the emissions that Pennsylvania provided to calculate emissions for the other forms of PM.

Table II-12. Pennsylvania 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type	Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20020104	30	ANNUAL	20020131	20020812	30
ANNUAL	20020101	20020111	30	ANNUAL	20020131	20021231	30
ANNUAL	20020101	20020120	30	ANNUAL	20020201	20020228	30
ANNUAL	20020101	20020123	30	ANNUAL	20020201	20020424	30
ANNUAL	20020101	20020130	30	ANNUAL	20020201	20020831	30
ANNUAL	20020101	20020131	30	ANNUAL	20020201	20020930	30
ANNUAL	20020101	20020212	30	ANNUAL	20020201	20021030	30
ANNUAL	20020101	20020215	30	ANNUAL	20020201	20021130	30
ANNUAL	20020101	20020221	30	ANNUAL	20020201	20021231	30
ANNUAL	20020101	20020228	30	ANNUAL	20020205	20021223	30
ANNUAL	20020101	20020313	30	ANNUAL	20020213	20020913	30
ANNUAL	20020101	20020329	30	ANNUAL	20020214	20021231	30
ANNUAL	20020101	20020331	30	ANNUAL	20020216	20020331	30
ANNUAL	20020101	20020412	30	ANNUAL	20020301	20020331	30
ANNUAL	20020101	20020414	30	ANNUAL	20020301	20020430	30
ANNUAL	20020101	20020422	30	ANNUAL	20020301	20020531	30
ANNUAL	20020101	20020427	30	ANNUAL	20020301	20021031	30
ANNUAL	20020101	20020430	30	ANNUAL	20020301	20021130	30
ANNUAL	20020101	20020503	30	ANNUAL	20020301	20021231	30
ANNUAL	20020101	20020514	30	ANNUAL	20020311	20021213	30
ANNUAL	20020101	20020517	30	ANNUAL	20020311	20021231	30
ANNUAL	20020101	20020521	30	ANNUAL	20020314	20021209	30
ANNUAL	20020101	20020531	30	ANNUAL	20020318	20021223	30
ANNUAL	20020101	20020603	30	ANNUAL	20020320	20020915	30
ANNUAL	20020101	20020614	30	ANNUAL	20020320	20021231	30
ANNUAL	20020101	20020626	30	ANNUAL	20020328	20021120	30
ANNUAL	20020101	20020628	30	ANNUAL	20020330	20021122	30
ANNUAL	20020101	20020630	30	ANNUAL	20020401	20020430	30
ANNUAL	20020101	20020701	30	ANNUAL	20020401	20020531	30
ANNUAL	20020101	20020731	30	ANNUAL	20020401	20020731	30
ANNUAL	20020101	20020813	30	ANNUAL	20020401	20020930	30
ANNUAL	20020101	20020831	30	ANNUAL	20020401	20021231	30
ANNUAL	20020101	20020909	30	ANNUAL	20020409	20021205	30
ANNUAL	20020101	20020930	30	ANNUAL	20020415	20021117	30
ANNUAL	20020101	20021031	30	ANNUAL	20020415	20021231	30
ANNUAL	20020101	20021101	30	ANNUAL	20020421	20021024	30
ANNUAL	20020101	20021112	30	ANNUAL	20020424	20021016	30
ANNUAL	20020101	20021130	30	ANNUAL	20020428	20021231	30
ANNUAL	20020101	20021213	30	ANNUAL	20020429	20020922	30
ANNUAL	20020101	20021216	30	ANNUAL	20020429	20021031	30
ANNUAL	20020101	20021217	30	ANNUAL	20020501	20020630	30
ANNUAL	20020101	20021220	30	ANNUAL	20020501	20020930	30
ANNUAL	20020101	20021223	30	ANNUAL	20020501	20021013	30
ANNUAL	20020101	20021230	30	ANNUAL	20020501	20021031	30
ANNUAL	20020101	20021231	30	ANNUAL	20020501	20021231	30
ANNUAL	20020102	20020703	30	ANNUAL	20020506	20021202	30
ANNUAL	20020102	20021203	30	ANNUAL	20020511	20021231	30
ANNUAL	20020102	20021215	30	ANNUAL	20020515	20021231	30
ANNUAL	20020102	20021223	30	ANNUAL	20020519	20020727	30
ANNUAL	20020102	20021227	30	ANNUAL	20020525	20021231	30

Table II-12. (Continued)

Emission Type Period	Start Date	End Date	Emission Type	Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020102	20021228	30	ANNUAL	20020601	20020602	30
ANNUAL	20020102	20021229	30	ANNUAL	20020601	20020831	30
ANNUAL	20020102	20021230	30	ANNUAL	20020601	20020930	30
ANNUAL	20020102	20021231	30	ANNUAL	20020601	20021019	30
ANNUAL	20020103	20021126	30	ANNUAL	20020603	20021231	30
ANNUAL	20020103	20021228	30	ANNUAL	20020606	20021127	30
ANNUAL	20020103	20021231	30	ANNUAL	20020629	20021231	30
ANNUAL	20020104	20020930	30	ANNUAL	20020701	20020731	30
ANNUAL	20020104	20021223	30	ANNUAL	20020701	20020930	30
ANNUAL	20020104	20021231	30	ANNUAL	20020701	20021231	30
ANNUAL	20020105	20021218	30	ANNUAL	20020708	20021231	30
ANNUAL	20020105	20021231	30	ANNUAL	20020801	20020831	30
ANNUAL	20020106	20021231	30	ANNUAL	20020801	20020930	30
ANNUAL	20020107	20021231	30	ANNUAL	20020801	20021130	30
ANNUAL	20020108	20021221	30	ANNUAL	20020801	20021231	30
ANNUAL	20020108	20021228	30	ANNUAL	20020802	20021231	30
ANNUAL	20020110	20021204	30	ANNUAL	20020901	20020930	30
ANNUAL	20020111	20021231	30	ANNUAL	20020901	20021231	30
ANNUAL	20020113	20021006	30	ANNUAL	20020920	20021231	30
ANNUAL	20020114	20021203	30	ANNUAL	20021001	20021030	30
ANNUAL	20020115	20020318	30	ANNUAL	20021001	20021231	30
ANNUAL	20020115	20020323	30	ANNUAL	20021028	20021231	30
ANNUAL	20020115	20020326	30	ANNUAL	20021101	20021231	30
ANNUAL	20020115	20020830	30	ANNUAL	20021118	20021231	30
ANNUAL	20020123	20020127	30	ANNUAL	20021201	20021231	30
ANNUAL	20020124	20021127	30				

11. Pennsylvania (Allegheny County, FIPS code 42003)

The Version 3 point source inventory for Allegheny County, Pennsylvania originates from Version 1. Table II-13 shows the emission type periods for which Allegheny County provided emissions.

Table II-13. Pennsylvania - Allegheny County 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20011201	20020228	29
NONANNUAL	20020601	20020831	29

Table A-11 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Allegheny County provided the emissions data for CO, NH_3, NO_x, SO_2, and VOC. Allegheny County provided PM-FIL, PM10-FIL, PM25-FIL, and/or PM-CON emissions data and the PM augmentation procedures were applied to the emissions that Allegheny County provided to calculate emissions for the other forms of PM.

12. Pennsylvania (Philadelphia County, FIPS code 42101)

The Version 3 point source inventory for Philadelphia County, Pennsylvania originates from Version 1. Table II-14 shows the emission type periods for which Philadelphia County provided emissions.

Table II-14. Pennsylvania - Philadelphia County 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20011201	20020228	29
NONANNUAL	20020601	20020831	29

Table A-12 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Philadelphia County provided the emissions data for CO, NH_3, NO_x, SO_2, and VOC. Philadelphia County provided PM-FIL, PM10-FIL, and/or PM25-FIL emissions data and the PM augmentation procedures were applied to the emissions that Philadelphia County provided to calculate emissions for the other forms of PM.

13. Rhode Island

Rhode Island requested that their Version 2 inventory be replaced with the CAP and NH_3 inventory in the final 2002 point source NEI that EPA released during March 2006. Therefore, all of Rhode Island's point source data in Version 2 was replaced with the point source data provided in the final 2002 point source NEI. The following provides a summary of the QA issues identified and addressed in Version 1. The Excel file named "RI Revisions to MANE-VU V3 Point EI_040706.xls" provides documentation and correction of each of these issues for Version 3.

The Site table in the NEI did not include the ORIS IDs for all of the EGUs identified in the EGU crosswalk table. Therefore, the crosswalk table was used to add the ORIS IDs to the Site table. Matching of boiler IDs to the EU table for one facility was maintained in the NEI, and, therefore, included in Version 3 of MANE-VU's inventory. However, matching of boiler IDs for other facilities was not available in the crosswalk table.

The data source codes that EPA used in the Rhode Island's point source inventory for the NEI were maintained in the MANE-VU inventory. The following defines the codes:

Code	Description
A	Augmented PM data.
CAMD	Record only in 2002 Emission Tracking System (ETS)/CEM for SO_2, NO_x, and heat input values; other emissions estimated.
SCAMD1	Data were received from the state. The state's NO_x and SO_2 emission values were replaced with the ETS values.
99_PMPRI	Not defined – presumed to mean PM-PRI data originating from the 1999 NEI.
SUM	Primary PM emissions calculated as the sum of the filterable PM and PM-CON emissions
DIFF	PM-CON emissions calculated as the difference between the primary PM and filterable PM emissions

QA of PM emissions was also performed in accordance with the QAPP for the 2002 base year inventory for EM table records that were revised or added for Rhode Island and New York. As a result, it was identified that the emission ton value was not correctly calculated from the emission unit numerator and emission numeric value fields in the NEI file, therefore, the emission ton value was corrected for the MANE-VU inventory. In addition, the final NEI for Rhode Island contained NH_3 emissions for several facilities but no SCCs were provided for the NH_3 emissions; therefore, the NH_3 emissions were removed for the MANE-VU inventory as requested by Rhode Island.

For Version 3 of MANE-VU's inventory, Facility ID EGU1036 and Facility Name MANCHESTER STREET in the final 2002 NEI was changed to Facility ID AIR936 and Facility Name USGEN NEW ENGLAND INC per Rhode Island's request because this is the same facility (with ORIS ID 3236). Also, for State Facility ID AIR594, EU ID 2, ERP 2, and Process ID 2, the SCC was changed from 39000589 to 39000599. In addition, the ORIS IDs reported in the NEI were revised to make them consistent with the crosswalk prepared for MANE-VU that matches state facility IDs to ORIS IDs.

One issue was identified with one record for Rhode Island where the sum of the PM10-FIL and PM-CON emissions was more than the PM10-PRI emissions, and the sum of the PM25-FIL and PM-CON emissions was more than the PM25-PRI emissions for facility ID AIR1248 in County FIPS 44007; SCC 10300601 (External Combustion Boilers : Commercial/Institutional : Natural Gas : > 100 Million Btu/hr). In addition, the PM10-FIL emissions reported was 1.6 tons more than the PM10-PRI emissions reported, and the PM25-FIL emissions reported was 1.6 tons more than the PM25-PRI emissions reported for this facility. The record has very low emissions and it was not clear how the PM consistency issues should be addressed; therefore, due to time and resource constraints, this issue was not corrected in Version 3.

Table II-15 shows the emission type periods for which Rhode Island provided emissions.

Table II-15. Rhode Island 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020601	20020831	29
NONANNUAL	20020601	20020831	29
NONANNUAL	20020601	20020831	30

Table A-13 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Rhode Island provided the emissions data for CO, NO_x, SO_2, VOC, and PM-PRI. The EPA applied PM augmentation procedures to the PM-PRI emissions that Rhode Island provided to calculate emissions for the other forms of PM. The EPA added NH_3 emissions for an EGU from EPA's CAMD data; otherwise, NH_3 emissions are not available for other point sources in Rhode Island.

14. Vermont

Vermont's Version 3 point source inventory originates from Version 1. Table II-16 shows the emission type periods for which Vermont provided emissions.

Table II-16. Vermont 2002 Point, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
NONANNUAL	20020101	20020331	27
NONANNUAL	20020101	20021231	29
NONANNUAL	20020601	20020831	27

Table A-14 in Appendix A identifies the data sources by SCC, emission type period, and pollutant in the Version 3 point source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Vermont provided the emissions data for CO, NO_x, SO_2, and VOC. Vermont provided PM-FIL, PM10-FIL, and/or PM25-FIL emissions data and the PM augmentation procedures were applied to the emissions that Vermont provided to calculate emissions for the other forms of PM. Vermont's inventory does not include NH_3 emissions.

C. What Issues Need to be Addressed in Future Versions?

This section provides a summary of potential revisions to incorporate into future versions of the MANE-VU point source inventory.

All States – A coordinated effort between the S/L agencies should be developed to apply consistent methods to avoid having to apply procedures to augment inventory data to correct for the QA issues and fill in missing data as discussed previously in this chapter. For example, this will ensure that consistent methods are applied across S/L agencies to ensure accurate reporting of stack parameters, PM emissions, and minimize other QA issues that were identified during the development of Versions 1, 2, and 3 of the inventory.

For PM emissions, the S/L agencies should develop and apply a consistent method for including condensible emissions for fuel combustion sources that can be applied when the agencies develop their inventories. This may include compiling the emission factors for all forms of PM into one database, organized by SCC and control type (for filterable emissions), and sharing the database among the MANE-VU S/L agencies. Use of a consistent set of emission factors will help to avoid the PM consistency issues identified in Versions 1, 2, and 3 of the MANE-VU inventory as well as ensure that condensible emissions are included in the primary emissions reported in the inventory.

The EGU crosswalk should be maintained to ensure that State Facility IDs and EU IDs are correctly matched with ORIS IDs and boiler IDs.

State-specific suggestions are as follows:

Connecticut, New Jersey, Rhode Island, and Vermont – Include NH_3 emissions.

New Jersey – Develop a method to translate the SCCs that are less than 8 digits reported by facilities to 8 digit SCCs for reporting in the inventory.

CHAPTER III – AREA SOURCES

A. General Methods for all States

1. What Data Sources Were Used?

Version 1 of the 2002 MANE-VU area source inventory was built on the inventories that the State agencies submitted to EPA from May through July of 2004 as a requirement of the CERR. Except for Rhode Island, all of the MANE-VU States also submitted area source inventories to EPA. Rhode Island elected to use the preliminary 2002 NEI for its area source inventory. The EPA performed some limited QA review of the State inventories to identify format, referential integrity, and duplicate record issues. The EPA revised the inventories to address these issues and made the files available to the State agencies on August 6, 2004. These inventory files were used as the starting point for the MANE-VU inventory. These inventory files were obtained from EPA, consolidated into a single data set, subjected to extensive QA review, and revised (as approved by the MANE-VU State agencies) to address QA issues and fill data gaps identified while preparing Version 1. Subsequently, the following agencies provided revisions to their area source inventories:

- Version 2 – District of Columbia, Massachusetts, Maryland, New Hampshire, New Jersey, New York, and Vermont.

- Version 3 – Massachusetts, Maine, New Jersey, New York, and Rhode Island.

The Version 2 and 3 revisions for these States are discussed in section III.B (State-Specific Methods) of this chapter. In addition, as requested by MANE-VU, revisions were made to Version 3 to (1) add emissions for portable fuel containers (PFCs), industrial adhesives, and outdoor residential wood combustion for some States; (2) decrease the $PM_{2.5}$ emissions for paved and unpaved roads and construction for all States; and (3) remove invalid CE records that originated from the preliminary 2002 NEI for some States. These revisions are explained in section III.A.3 of this chapter.

To track the origin of data, the temporal period of emissions, and to facilitate generation of emission summaries, the following NIF plus fields were added to the EP, PE, EM, and CE tables:

- Data Source Codes:

For the area source inventory data, the data source codes are based on the following 9-character format:

[Data Origin]-[Year]-[Grown/Not Grown/Carried Forward]-[PM Augmentation Code]

Code	**Field Length**
Data Origin	1
Year	3 (including leading hyphen)
Grown/Not Grown/Carried Forward	2 (including leading hyphen)
PM Augmentation	3 (including leading hyphen)

Data Origin Codes

Code	Description
S	State agency-supplied data
L	Local agency-supplied data
R	Tribal agency-supplied data
P	Regional Planning Organization
E	EPA/Emission Factors and Inventory Group (EFIG)-generated data

Year Codes

Year for which data are supplied (e.g., Year = -02 for 2002), or from which prior year data are taken (e.g., Year = -99 for 1999; -01=2001).

Grown/Carried Forward/Not Grown Codes

Code	Description
-G	Used when emissions in a pre-2002 inventory are grown to represent 2002 emissions.
-F	Used when emissions in a pre-2002 inventory are carried forward and included in the 2002 inventory without adjustment for growth.
-X	Used when the emissions are not grown or are not carried forward. For example, X is used when emissions are calculated for the 2002 inventory using 2002 activity, or when data are replaced with 2002 State data.

PM Augmentation Codes

-PA PM Augmented Emissions: Record for $PM_{10}/PM_{2.5}$ emissions that were updated or added using ad-hoc updates.

-PC PM Augmented Emissions: Record added for $PM_{10}/PM_{2.5}$ emissions estimated using the PM Calculator.

-PR PM Augmented Emissions: Record added for $PM_{10}/PM_{2.5}$ emissions estimated using ratios of PM_{10}-to-PM or $PM_{2.5}$-to-PM_{10}. If PM_{10} and $PM_{2.5}$ emissions are equal and one of the pollutants is assigned this code, the ratio is assumed to be 1.

- Revision Date: This field indicates the month and year during which the last revision was made to a record.

- State FIPS: This field indicates the State FIPS code of the submittal.

- County FIPS: This field indicates the county FIPS code of the inventory.

The following NIF plus fields were added to the EM table:

- Emission Ton Value: This field indicates the values of the emissions in tons. This field was used to prepare summaries of emissions on a consistent EU basis.

- Emission Type Period: This field indicates the period of the Emission Type – either ANNUAL, SEASONAL, MONTHLY, or DAILY. Emission table records designated as ANNUAL were used to prepare summaries of annual emissions.

- CAP_HAP: This field identifies records for CAP versus records for HAPs. For the MANE-VU inventory, the flag is CAP for all records.

- Year: This field indicates the year of the data; for this inventory, it is 2002.

2. What Quality Assurance Steps Were Performed?

A QAPP was prepared and approved by MANE-VU/MARAMA and the EPA Regional Office prior to initiating work on Version 1 of the inventory (MANE-VU, 2004a). This QAPP was followed during preparation of all three versions of the inventory. This section provides an overview of the QA checks completed on each version of the inventory. The QA process for each State inventory involved the following steps that are also included in the following discussion:

- Conduct QA checks on each State inventory;
- Prepare a QA Summary Report for submittal to the agency for review;
- Revise the inventory to resolve QA issues as directed by the agency;
- Repeat the QA checks on the revised inventory to verify that the corrections were completed;

- Perform augmentation to correct for missing data; and
- Repeat the QA checks to verify that the augmentation was completed correctly.

a. QA checks for State emission inventories

The following QA checks were run on each State inventory:

i. County and SCC coverage
ii. Pollutant coverage
iii. EPA QA summaries sent to State agencies
iv. Range errors
v. PM emissions consistency and completeness review
vi. Control device type and control efficiency data review
vii. Start and end date checks
viii. Annual and daily emissions comparison

County and SCC Coverage

The county coverage in the State inventories appeared to be reasonable for all States. The SCC coverage was difficult to evaluate simply by showing a count of the number of SCCs by State. Each State inventory was compared to the preliminary 2002 NEI, and area source categories in the NEI but not in a State inventory were sent to each agency for review. Each State agency then selected the NEI categories that were then added to the MANE-VU inventory.

Pollutant Coverage

The pollutant coverage in the State inventories was complete for all pollutants except for PM_{10} and $PM_{2.5}$. Diagnosis and resolution of PM_{10} and $PM_{2.5}$ pollutant emissions is discussed later in section III.A.2.c. The exception was Connecticut who included only VOC, NO_x, and CO emissions in its inventory submittal to EPA.

EPA QA Summaries Sent to State Agencies

Under a separate project with EPA, Pechan performed QA review of the State area source inventories. This QA review involved running EPA's QA program on each data set to identify and resolve QA issues. Using the results of this QA work, Pechan prepared two sets of QA summaries that EPA sent to the State agencies. Pechan contacted each State agency with QA issues identified in the EPA reports to obtain direction for correcting the QA issues identified in the reports. The following explains these two summaries:

High-level Summary of State Inventories Submitted to EPA:

The first summary was an Excel workbook file with four spreadsheets that provided the following information:

- 2002 Nonpoint File Names: This spreadsheet documented names and formats of the files that EPA received from the State agencies and the dates on which they were transferred to Pechan.

- 2002 Nonpoint Summary: This spreadsheet documented the name of the state agency, type of inventory (i.e., CAP, HAP, or both), a comparison of the number of the counties in the inventory to the total number of counties in the State to identify the geographic coverage of the inventory, a unique list of CAP codes, and the total number of area source SCCs. This spreadsheet also indicated if any nonroad or onroad emissions data were moved from the agency's area source inventory to its nonroad or onroad inventory.

- 2002 Nonpoint Emission Sums: This spreadsheet summarized emissions by start date, end date, and emission type and assigned the appropriate code to the emission type period NIF plus field.

- 2002 Nonpoint Error Summary: This spreadsheet provided a copy of the "SummaryStats" table from the EPA QA program (EPA, 2004a). This table provided the count of records for each NIF 3.0 table and identified the number of records with errors by type of error.

Detailed Summary of QA Issues:

This summary (sent to State agencies on August 11) was prepared in a text file that listed by State and NIF table the number of records with errors, and provided corrections for the errors. To support documentation of corrections to some of the errors in the text file, Pechan prepared an Excel workbook file that summarized the following errors and corrections by State: invalid pollutants codes; invalid units; invalid maximum achievable control technology (MACT) codes; and invalid and inactive SCCs. A spreadsheet was also included to show the mapping of standard industrial classification (SIC) codes to North American Industrial Classification System (NAICS) codes. This crosswalk was used to correct invalid NAICS codes if a valid SIC code was available in the State inventories and vice versa.

Additional QA for the MANE-VU Area Source Inventory

The following explains additional QA and data tracking that was performed for the MANE-VU inventory. The following data elements were reviewed to identify QA issues:

- Range Errors;
- PM Emissions Consistency and Completeness;
- Control Device Codes and Control Efficiency Values;
- Start and End Dates;
- Annual and Daily Emissions Comparison; and
- Comparison of State Inventories to the 2002 Preliminary NEI.

For each State inventory for which QA issues were identified, a separate QA Summary Report was prepared in an Excel workbook file, and sent to each State agency for review. The State agencies provided directions in the Excel Workbook file, via e-mail, or by submitting revised records in NIF 3.0 in an Access database to correct the inventories. The QA reports are discussed under section III.A.2.b.

Range Errors

The EPA's QA program contains routines that compare annual emission values, numeric fields in the PE and EP tables, and other temporal numeric fields against a range of values. The QA program flags records that are less than or greater than the range of values for review. Pechan summarized the range errors for the State agencies to review and provide corrections. According to EPA, the ranges to which values in inventories are compared represent "normal" ranges that are based on percentiles from previous inventories. The range values are conservative in that EPA wants to identify suspicious values even though the values may be real (Thompson, 2002).

PM Emissions Consistency and Completeness Review

The following consistency checks were performed at the EM table data key level (for annual emissions) to compare PM emissions:

- If an SCC was associated with a PM emission record, but was missing one or more of the following (as appropriate for the SCC [i.e., PM-CON is associated with fuel combustion only]): PM10-FIL, PM10-PRI, PM25-FIL, PM25-PRI, or PM-CON, the record was flagged for review.

- The following equations were used to determine consistency:

  PM10-FIL + PM-CON = PM10-PRI
  PM25-FIL + PM-CON = PM25-PRI

- The following comparisons were made to determine consistency:

  PM10-PRI >= PM10-FIL
  PM25-PRI >= PM25-FIL
  PM10-PRI >= PM-CON
  PM25-PRI >= PM-CON
  PM10-FIL >= PM25-FIL
  PM10-PRI >= PM25-PRI

If the data failed one of these checks it was diagnosed as an error. If a State agency did not provide corrections to these errors, the errors were corrected/filled in according to an augmentation procedure explained in section III.A.2.c.

For information purposes, all PM-PRI and PM-FIL records were flagged to indicate that these pollutants were included instead of, or in addition to, the standard PM10-PRI/FIL, PM25-PRI/FIL, and PM-CON pollutants.

Control Device Type and Control Efficiency Data Review

The CE codes in the "Primary Device Type Code" and "Secondary Device Type Code" fields were reviewed to identify invalid codes (i.e., codes that did not exist in the NIF 3.0 reference table) and missing codes (e.g., records with a null or uncontrolled code of 000 but with control efficiency data).

QA review of control efficiency data involved diagnosis of two types of errors. First, records were reviewed to identify control efficiency values that were reported as a decimal rather than as a percent value. Records with control efficiencies with decimal values were flagged as a potential error (although not necessarily an error, since the real control efficiency may be less than 1%). Records with a 1% control efficiency value were also identified for review by the State agency to determine if the value was reported as a decimal in its internal data system but rounded to 1% when the data were converted to NIF 3.0.

The second check identified records where 100% control was reported in the CE table, but the emissions in the EM table were greater than zero and the rule effectiveness value in the EM table was null, zero, or 100% (implying 100% control of emissions). Because many agencies did not populate the rule effectiveness field or a default value of zero was assigned, records with null or zero rule effectiveness values were included where the CE was 100% and emissions were greater than zero. For records that met these criteria, Pechan consulted with the State agency to determine if corrections were needed to any of the fields.

Start and End Date Checks

QA review was conducted to identify start and end date values in the PE and EM tables to confirm consistency with the inventory year in the TR table, and to confirm that the end date reported was greater than the start date reported.

Annual and Daily Emissions Comparison

The State inventories were reviewed to determine if any of the following conditions existed:

- Multiple records coded at the SCC level as emission type 30, but with different start and end dates. While not a true duplicate, this may indicate an error or inclusion of both annual and seasonal values.

- Multiple records coded at the SCC level as a daily emission type (27, 29, etc.) but with different start and end dates. While not a true duplicate, this may indicate an error or just inclusion of additional types of daily emissions.

- Multiple records coded at the SCC level with the same start and end date, but different emission types. While not a true duplicate, this may indicate an error or just inclusion of additional types of daily emissions.

- Any "DAILY" type record that was missing its associated "ANNUAL" record was flagged for review.

- Any "DAILY" type record that was greater than its associated "ANNUAL" record was flagged for review.

b. Responses from State Agencies

QA Summary Reports were sent to the State agencies to review the QA issues identified. The State agencies were asked to return these reports to MANE-VU with their corrections documented in the reports. These reports were then used to document revisions to the State inventories. The QA Summary Reports containing the revisions provided by the State agencies are provided in Excel Workbook files with this TSD.

c. Gap Filling and Augmentation

This section explains the methods used to add data for categories and/or pollutants missing in a State's inventory after revising the inventory to address QA issues.

i. MANE-VU sponsored inventories
ii. PM augmentation
iii. Fossil fuel combustion sources
iv. Other sources of PM emissions
v. Merging of NEI data into S/L inventories
vi. Revisions to the preliminary 2002 NEI incorporated into Version 1 of the MANE-VU inventory
vii. Additional work on Area source methods
   - Fugitive Dust Emissions from Paved and Unpaved Roads
   - Wildfires and Prescribed Burning

The following discusses the augmentation procedures that were applied to the State inventories to improve the inventories or to fill in missing data not supplied by the State agencies.

MANE-VU -Sponsored Inventories

MANE-VU sponsored inventory development for residential wood combustion, open burning, public owned treatment works (POTWs), compositing, and industrial refrigeration. At the beginning of the project for developing Version 1, each State agency was requested to indicate if it (1) included the MANE-VU-sponsored inventory for one or more of these categories in the inventory it submitted to EPA; (2) included its own estimates for a category in the inventory it submitted to EPA; or (3) if it did not include a category in its inventory, if the MANE-VU-sponsored inventory or the 2002 preliminary NEI should be used as the source of data for the category. The results of this Version 1 inventory development request are summarized in Table III-1.

Improvements to fugitive dust emissions for the paved and unpaved road categories were completed after the draft version of the consolidated area source inventory was prepared. Agencies provided guidance on if they wanted the MANE-VU-sponsored inventory for these two categories to replace the paved and unpaved road inventories they had included in their inventories. For paved roads, all States requested that the MANE-VU-sponsored inventory be used; however, New Jersey and Maryland requested that the winter-time sand/silt adjustment not be included in their inventories. For unpaved roads, nine of the 12 States requested that the MANE-VU-sponsored inventory be used. New Jersey requested that its unpaved road inventory be used instead of the MANE-VU-sponsored inventory. In addition, the District of Columbia and Delaware do not have any unpaved road activity and excluded this category from their inventories.

PM Augmentation

Procedures were developed to estimate missing pollutant data from data provided by the State agencies in order to develop a complete set of PM10-PRI and PM25-PRI emissions to support air quality modeling. The following discusses the procedures for fossil fuel combustion sources first followed by the procedures for all other area sources of PM emissions.

Fossil Fuel Combustion Sources

Fossil fuel combustion sources include industrial, commercial/institutional, and residential anthracite coal, bituminous/subbituminous coal, distillate oil and kerosene, residual oil, natural gas, and LPG. All of these sources emit both filterable and condensible emissions. The QA review of the PM emissions data for these sources focused on verifying that the emissions reported in the State inventories included both filterable and condensible emissions. The emissions for these pollutants can be reported in State inventories individually (i.e., as filterable and condensible separately) or as primary emissions (i.e., the sum of the filterable and condensible emissions). The QA review also focused on evaluating the emission factors reported in the State inventories to determine if they were reasonable.

Table III-1. Summary of MANE-VU-Sponsored Inventories Included in Version 1 of the Area Source Consolidated Emissions Inventory

Area Source Category	Pollutant	SCCs	MANE-VU Inventory Included in State's Inventory Submitted to EPA			Not Included in State's Inventory - Add to MANE-VU Inventory			State's Inventory Includes State-Developed Estimates			Not Included in State's Inventory - Add 2002 Preliminary NEI Data to State's Inventory
			Annual	Summer Day	Winter Day	Annual	Summer Day	Winter Day	Annual	Summer Day	Winter Day	Annual
POTWs	NH_3, VOC	2630020010 (Wastewater Treatment)	DE, NJ, PA	DE, NJ, PA		VT	VT		CT, DC, DE, MA, MD, NH, NJ, NY	CT, DC, DE, MA, MD, NH, NJ	NJ	ME, RI
		2630020020 (Biosolids Processes)	DE, NJ, PA	DE, NJ, PA		VT	VT		CT, DC, DE, MA, MD, NH, NJ, NY	CT, DC, DE, MA, MD, NH, NJ	NJ	ME, RI
		2630050000 (Digested Sludge)	DE, NH, NJ, PA	DE, NH, NJ, PA		VT	VT		CT, DC, DE, MA, MD, NY	CT, DC, DE, MA, MD		ME, RI
Composting	NH_3, VOC	2680001000 (Biosolids)	NH, NJ	NH, NJ		CT, DC, MA, ME, PA, VT	CT, DC, MA, ME, PA, VT					
		2680002000 (Mixed Biosolids and Green Waste)	NH, NJ	NH, NJ		CT, DC, MA, ME, PA, VT	CT, DC, MA, ME, PA, VT					
		2680003000 (Composting; Green Waste)				DC, MA, ME	DC, MA, ME					
Industrial Refrigeration	NH_3	2399010000	ME, NH, NJ	ME, NH, NJ		CT, MA, PA, VT	CT, MA, PA, VT					
Residential Wood Combustion	All criteria pollutants/ precursors, and many toxic air pollutants	2104008000 (Indoor)	MA, MD, NH	MA, MD, NH	MA, MD, NH	CT, DE, ME	CT, DE, ME	CT, DE, ME	NJ, NY, VT	NJ	NJ	DC, PA, RI
		2104008070 (Outdoor)	MA, MD, NH	MA, MD, NH	MA, MD, NH	CT, DE, ME	CT, DE, ME	CT, DE, ME				
Open Burning	All criteria pollutants/ precursors, and many toxic air pollutants	2610000100 (Leaves)	MA, MD, NH, PA			DC, DE, NY, VT			NJ	NJ	NJ	ME, RI
		2610000400 (Brush)	MA, MD, PA			CT, DC, DE, NY, VT			NJ	NJ	NJ	ME, NH, RI
		2610030000 (Municipal Solid Waste)	MA, MD, PA			DC, DE, NY			NH, NJ	NH, NJ	NJ	ME, RI, VT
		2610040400 (Municipal Yard Waste)	MA, NY, PA			DC, NY, VT			DE, NJ	DE, NJ	DE, NJ	

Table III-1 (continued)

Notes:

Gray shading identifies categories for which daily emissions are not available.

POTWs:

CT, MD: Provided VOC but not NH_3 emissions in its State inventory.

DC, MA, MD, ME, NH, RI: Reported POTW emissions under SCC 2630020000 (Total Processed).

DE: MANE-VU inventory used for NH_3; DE provided its own VOC emissions under SCC 2630020000 (Total Processed).

NJ: MANE-VU-sponsored inventory used for NH_3 only. NJ included its own inventory for the other criteria pollutants under SCCs 2630010000 and 2630020000.

NY: Reported VOC emissions under SCC 2630000000 (from the preliminary 2002 NEI) and SCC 2630020000 (State-developed inventory). MANE-VU-sponsored NH_3 inventory was not used.

Composting:

CT, NH: SCC 2680003000 is not in the MANE-VU-sponsored composting inventory for these States.

DE: This State does not have composting activity.

MD: State requested that the MANE-VU inventory for this category not be included in its inventory.

NY, RI: Did not include emissions for this category in the 2002 inventory.

Industrial Refrigeration:

DC: Requested that the preliminary 2002 NEI be used but the NEI does not contain any emissions for this category in DC.

DE: State-developed emissions are included in point source inventory.

MD, RI: Did not include emissions for this category in its inventory.

ME: Used the MANE-VU inventory emissions under SCC 2302080002 (Miscellaneous Food and Kindred Products/Refrigeration).

NH: Original inventory submittal to EPA includes SO_2 and PM emissions for SCC 2399000000 from the preliminary 2002 NEI; NH_3 emissions for SCC 2399010000 are from the MANE-VU inventory.

NY: Original inventory submittal to EPA includes SO_2 and PM emissions for SCC 2399000000 from the preliminary 2002 NEI; NY did not use the MANE-VU-sponsored NH_3 inventory for SCC 2399010000.

Residential Wood Combustion:

DC: RWC inventory in 2002 NEI covers seven SCCs and does not include daily emissions.

Open Burning:

CT: Statewide activity for SCC 2610000100 (Leaves) and SCC 2610030000 (Municipal Solid Waste) is negligible.

For SCCs 2610000400 (Brush) and 2610040400 (Municipal Yard Waste), State initially provided VOC, NO_x, and CO emissions under SCC 2610000000 which is no longer a valid SCC in EPA's master SCC list. CT recalculated emissions to include VOC, NO_x, CO, PM10-PRI/-FIL, and PM25-PRI/-FIL, and placed the emissions on valid SCC 2610000500 (Land Clearing Debris) since the majority of the activity is associated with activities covered by this SCC.

MD: The MANE-VU inventory for SCC 2610040400 (Municipal Yard Waste) reports zero emissions indicating that the activity for the category does not occur in MD. MD did not include the SCC in its inventory for this reason.

NH: Did not include NH_3 emissions in MANE-VU inventory for SCC 2610040400 (Municipal Yard Waste).

To support the QA review effort, the uncontrolled PM emission factors shown in Table III-2 were compiled from AP-42. The emission factors reported in the State inventories were compared to the emission factors in this table. Emission factors that appeared too high or too low were flagged for review by the State agency. In addition, inventory data were flagged for review by the State agency if the emissions were reported under the primary PM pollutant codes but the emission factors matched with the emission factors for filterable PM in Table III-2. Finally, if emission factors were not reported in the State agency inventory, the emission factors were back-calculated using the throughput data (if available), emissions, rule effectiveness values, and control efficiency data (if available). The back-calculated emission factors were compared to the factors in Table III-2 to identify data with major difference between the factors. It is emphasized that the uncontrolled emission factors in Table III-2 were used as a reference for reviewing State inventory data. The emission factors in this table should not be construed to be the best available for all State agencies since the emission factors will vary depending on the composition of the boiler population in an agency's area source inventory.

Delaware, Massachusetts, Maryland, New Hampshire, New Jersey, New York, and Pennsylvania provided their own inventory for all fossil fuel combustion categories. Connecticut, the District of Columbia, Maine, Rhode Island, and Vermont used fossil fuel combustion inventory data in the preliminary 2002 NEI for some or all of the categories. The following provides details on the origin of the fossil fuel combustion inventories for these States:

> Connecticut supplied VOC, NO_x, and CO emissions from its 1999 inventory for industrial and commercial/institutional fossil fuel combustion. PM10-PRI, PM25-PRI, SO_2, and NH_3 emissions were taken from preliminary NEI estimates (carried forward from Version 3 of the 1999 NEI). For the residential sector, Connecticut's inventory was taken from the preliminary 2002 NEI. Connecticut provided guidance on the counties with natural gas and LPG activity for which to use the NEI estimates.
>
> For the District of Columbia, the preliminary NEI was used to gap fill missing PM10-PRI and PM25-PRI emissions for commercial/institutional bituminous/ subbituminous coal combustion and PM10-PRI, PM25-PRI, SO_2, and NH_3 for commercial/institutional natural gas combustion. The NEI estimates for these commercial/institutional categories were carried forward from Version 3 of the 1999 NEI. The District of Columbia used the NEI estimates for residential bituminous/subbituminous coal combustion.
>
> Maine and Rhode Island used the preliminary 2002 NEI for all three sectors. The NEI estimates for the industrial and commercial/institutional sectors were carried forward from Version 3 of the 1999 NEI, while the residential sector estimates are based on 2000 or 2002 activity estimates prepared by EPA.
>
> Vermont used the preliminary 2002 NEI for the industrial and commercial/ institutional sectors and residential anthracite coal (carried forward from Version 3 of the 1999 NEI), but provided its own inventory for residential distillate oil, natural gas, and LPG.

Table III-2. Area Source Industrial, Commercial/Institutional, and Residential Fossil Fuel Combustion Uncontrolled Emission Factors for PM10-PRI/FIL, PM25-PRI/FIL, and PM-CON

Pollutant1	Uncontrolled Emission Factor (EF)	EF Numerator	EF Denominator	Calculated Uncontrolled EF	Reference
Industrial Boilers: Anthracite Coal (SCC 2102001000)					
PM10-FIL	2.3 x % Ash content of coal	LB	TON	30.77	AP-42 Table 1.2-4 EF calculated from formula of 2.3 * % Ash Content (13.38%). Reference for ash content is EPA, 2002.
PM25-FIL	0.6 x % Ash content of coal	LB	TON	8.03	AP-42 Table 1.2-4 EF calculated from formula of 0.6 * % Ash Content (13.38%) (used Commercial/Institutional emission factors). Reference for ash content is EPA, 2002.
PM-CON	0.08 x % Ash content of coal	LB	TON	1.07	AP-42 Table 1.2-3 Used formula for SCC 10300101, EF calculated from formula of .08 * % Ash Content (13.38%). Reference for ash content is EPA, 2002.
PM10-PRI		LB	TON	31.84	
PM25-PRI		LB	TON	9.10	
Industrial Boilers: Bituminous/Subbituminous Coal (SCC 2102002000)					
PM10-FIL	13.2	LB	TON	13.2	AP-42 Table 1.1-9 EF (used Commercial/Institutional emission factors)
PM25-FIL	4.6	LB	TON	4.6	AP-42 Table 1.1-9 EF (used Commercial/Institutional emission factors)
PM-CON	1.04	LB	TON	1.04	AP-42 Table 1.1-5 (used Commercial/Institutional emission factors)
PM10-PRI		LB	TON	14.24	
PM25-PRI		LB	TON	5.64	
Industrial Boilers and IC Engines: Distillate Oil (SCC 2102004000)					
PM10-FIL	1	LB	E3GAL	1	AP-42 Table 1.3-6
PM25-FIL	0.25	LB	E3GAL	0.25	AP-42 Table 1.3-6
PM-CON	1.3	LB	E3GAL	1.3	AP-42 Table 1.3-2
PM10-PRI		LB	E3GAL	2.30	
PM25-PRI		LB	E3GAL	1.55	
Industrial Boilers: Residual Oil (SCC 2102005000)					
PM10-FIL	7.17 x % Sulfur content of oil	LB	E3GAL	10.683	AP-42 Table 1.3-5. EF calculated from formula of 7.17(A); where A=1.12(S)+0.37; Assumed S=1% for purpose of calculating EF ratios.
PM25-FIL	4.67 x % Sulfur content of oil	LB	E3GAL	6.958	AP-42 Table 1.3-5. EF calculated from formula of 7.17(A); where A=1.12(S)+0.37; Assumed S=1% for purpose of calculating EF ratios.
PM-CON	1.5	LB	E3GAL	1.5	AP-42 Table 1.3-2
PM10-PRI		LB	E3GAL	12.18	
PM25-PRI		LB	E3GAL	8.46	
Industrial Boilers and IC Engines: Natural Gas (SCC 2102006000)					
PM10-FIL	1.9	LB	E6FT3	1.9	AP-42 Table 1.4-2
PM25-FIL	1.9	LB	E6FT3	1.9	AP-42 Table 1.4-2
PM-CON	5.7	LB	E6FT3	5.7	AP-42 Table 1.4-2
PM10-PRI	7.6	LB	E6FT3	7.60	
PM25-PRI	7.6	LB	E6FT3	7.60	

Table III-2 (continued)

Pollutant1	Uncontrolled Emission Factor (EF)	EF Numerator	EF Denominator	Calculated Uncontrolled EF	Reference
Industrial Boilers - Liquified Petroleum Gas (SCC 2102007000)					
PM10-FIL	0.6	LB	E3GAL	0.6	AP-42 Table 1.5-1
PM25-FIL	0.6	LB	E3GAL	0.6	AP-42 Table 1.5-1
PM-CON	0.506	LB	E3GAL	0.506	Used natural gas PM-CON emission factor of 5.7 lb/Million Cubic Feet (for all PM controls and uncontrolled). Used factor of 0.0887 to convert emission factor from lb/Million Cubic Feet of natural gas to lb/1,000 gallons of propane. Reference: AP-42, Table 1.4-2. Conversion factor assumes 1020 Btu/scf for natural gas (AP-42, Table 1.4-2) and 90,500 Btu/gallon for propane (AP-42, Appendix A, page A-5).
PM10-PRI		LB	E3GAL	1.11	
PM25-PRI		LB	E3GAL	1.11	
Industrial Boilers: Kerosene (SCC 2102011000)					
PM10-FIL	1	LB	E3GAL	1	AP-42 Table 1.3-6
PM25-FIL	0.25	LB	E3GAL	0.25	AP-42 Table 1.3-6
PM-CON	1.3	LB	E3GAL	1.3	AP-42 Table 1.3-6
PM10-PRI		LB	E3GAL	2.30	
PM25-PRI		LB	E3GAL	1.55	
Commercial/Institutional Heating: Anthracite Coal (SCC 2103001000)					
PM10-FIL	2.3 x % Ash content of coal	LB	TON	30.77	AP-42 Table 1.2-4 EF calculated from formula of 2.3 * % Ash Content (13.38%). Reference for ash content is EPA, 2002.
PM25-FIL	0.6 x % Ash content of coal	LB	TON	8.03	AP-42 Table 1.2-4 EF calculated from formula of 0.6 * % Ash Content (13.38%). Reference for ash content is EPA, 2002.
PM-CON	0.08 x % Ash content of coal	LB	TON	1.07	AP-42 Table 1.2-3 Used formula for SCC 10300101, EF calculated from formula of 0.08 * % Ash Content (13.38%). Reference for ash content is EPA, 2002.
PM10-PRI		LB	TON	31.84	
PM25-PRI		LB	TON	9.10	
Commercial/Institutional Heating: Bituminous and Lignite (SCC 2103002000)					
PM10-FIL	13.2	LB	TON	13.2	AP-42 Table 1.1-9 EF
PM25-FIL	4.6	LB	TON	4.6	AP-42 Table 1.1-9 EF
PM-CON	1.04	LB	TON	1.04	AP-42 Table 1.1-5 (0.04 lb/MMBtu * 26MMBtu/ton=1.04)
PM10-PRI		LB	TON	14.24	
PM25-PRI		LB	TON	5.64	
Commercial/Institutional Heating: Distillate Oil (SCC 2103004000)					
PM10-FIL	1.08	LB	E3GAL	1.08	AP-42 Table 1.3-7
PM25-FIL	0.83	LB	E3GAL	0.83	AP-42 Table 1.3-7
PM-CON	1.3	LB	E3GAL	1.3	AP-42 Table 1.3-2
PM10-PRI		LB	E3GAL	2.38	
PM25-PRI		LB	E3GAL	2.13	

Table III-2 (continued)

Pollutant[1]	Uncontrolled Emission Factor (EF)	EF Numerator	EF Denominator	Calculated Uncontrolled EF	Reference
Commercial/Institutional Heating: Residual Oil (SCC 2103005000)					
PM10-FIL	5.17 x % Sulfur content of oil	LB	E3GAL	7.703	AP-42 Table 1.3-7. EF calculated from formula of 5.17(A); where A=1.12(S)+0.37; Assumed S=1% for purpose of calculating EF ratios.
PM25-FIL	1.92 x % Sulfur content of oil	LB	E3GAL	2.861	AP-42 Table 1.3-7. EF calculated from formula of 5.17(A); where A=1.12(S)+0.37; Assumed S=1% for purpose of calculating EF ratios.
PM-CON	1.5	LB	E3GAL	1.5	AP-42, Table 1.3-2
PM10-PRI		LB	E3GAL	9.20	
PM25-PRI		LB	E3GAL	4.36	
Commercial/Institutional Heating: Natural Gas (SCC 2103006000)					
PM10-FIL	1.9	LB	E6FT3	1.9	AP-42 Table 1.4-2
PM25-FIL	1.9	LB	E6FT3	1.9	AP-42 Table 1.4-2
PM-CON	5.7	LB	E6FT3	5.7	AP-42 Table 1.4-2
PM10-PRI		LB	E6FT3	7.60	
PM25-PRI		LB	E6FT3	7.60	
Commercial/Institutional Heating: Liquified Petroleum Gas (SCC 2103007000)					
PM10-FIL	0.4	LB	E3GAL	0.4	AP-42 Table 1.5-1 (Propane for Commercial Boilers)
PM25-FIL	0.4	LB	E3GAL	0.4	AP-42 Table 1.5-1 (Propane for Commercial Boilers)
PM-CON	0.506	LB	E3GAL	0.506	Used natural gas PM-CON emission factor of 5.7 lb/Million Cubic Feet (for all PM controls and uncontrolled). Used factor of 0.0887 to convert emission factor from lb/Million Cubic Feet of natural gas to lb/1,000 gallons of propane. Reference: AP-42, Table 1.4-2. Conversion factor assumes 1020 Btu/scf for natural gas (AP-42, Table 1.4-2) and 90,500 Btu/gallon for propane (AP-42, Appendix A, page A-5).
PM10-PRI		LB	E3GAL	0.91	
PM25-PRI		LB	E3GAL	0.91	
Commercial/Institutional Heating: Kerosene (SCC 2103011000)					
PM10-FIL	1.08	LB	E3GAL	1.08	AP-42 Table 1.3-7 Used EF for Distillate Oil (per EIIP)
PM25-FIL	0.83	LB	E3GAL	0.83	AP-42 Table 1.3-7 Used EF for Distillate Oil (per EIIP)
PM-CON	1.3	LB	E3GAL	1.3	AP-42 Table 1.3-2 Used EF for Distillate Oil (per EIIP)
PM10-PRI		LB	E3GAL	2.38	
PM25-PRI		LB	E3GAL	2.13	
Residential Heating: Anthracite Coal (SCC 2104001000)					
PM10-FIL	10	LB	TON	10	EPA, 2002.
PM25-FIL	0.6 x % Ash content of coal	LB	TON	8.03	EF calculated from formula of 0.6 * % Ash Content (13.38%). Reference for EF and ash content is EPA, 2002.
PM-CON	0.08 x % Ash content of coal	LB	TON	1.07	EF calculated from formula of 0.08 * % Ash Content (13.38%). Reference for EF and ash content is EPA, 2002.
PM10-PRI		LB	TON	11.07	
PM25-PRI		LB	TON	9.10	

Table III-2 (continued)

Pollutant[1]	Uncontrolled Emission Factor (EF)	EF Numerator	EF Denominator	Calculated Uncontrolled EF	Reference
Residential Heating: Bituminous and Lignite Coal (SCC 2104002000)					
PM10-FIL	6.2	LB	TON	6.2	AP-42 Table 1.1-11
PM25-FIL	3.8	LB	TON	3.8	AP-42 Table 1.1-11
PM-CON	1.04	LB	TON	1.04	AP-42 Table 1.1-5 (0.04 lb/MMBtu * 26 MMBtu/ton=1.04)
PM10-PRI		LB	TON	7.24	
PM25-PRI		LB	TON	4.84	
Residential Heating: Distillate Oil (SCC 2104004000)					
PM10-FIL	1.08	LB	E3GAL	1.08	AP-42 Table 1.3-7 (Commercial/Institutional EF)
PM25-FIL	0.83	LB	E3GAL	0.83	AP-42 Table 1.3-7 (Commercial/Institutional EF)
PM-CON	1.3	LB	E3GAL	1.3	AP-42 Table 1.3-2
PM10-PRI		LB	E3GAL	2.38	
PM25-PRI		LB	E3GAL	2.13	
Residential Heating: Natural Gas - All types (SCC 2104006000)					
PM10-FIL	1.9	LB	E6FT3	1.9	AP-42 Table 1.4.2
PM25-FIL	1.9	LB	E6FT3	1.9	AP-42 Table 1.4.2
PM-CON	5.7	LB	E6FT3	5.7	AP-42 Table 1.4.2
PM10-PRI		LB	E6FT3	7.60	
PM25-PRI		LB	E6FT3	7.60	
Residential Heating: Liquified Petroleum Gas (SCC 2104007000)					
PM10-FIL	0.4	LB	E3GAL	0.4	AP-42 Table 1.5-1 (Same factor used for Propane for Commercial Boilers; based on EIIP)
PM25-FIL	0.4	LB	E3GAL	0.4	AP-42 Table 1.5-1 (Same factor used for Propane for Commercial Boilers; based on EIIP)
PM-CON	0.506	LB	E3GAL	0.506	Used natural gas PM-CON emission factor of 5.7 lb/Million Cubic Feet (for all PM controls and uncontrolled). Used factor of 0.0887 to convert emission factor from lb/Million Cubic Feet of natural gas to lb/1,000 gallons of propane. Reference: AP-42, Table 1.4-2. Conversion factor assumes 1020 Btu/scf for natural gas (AP-42, Table 1.4-2) and 90,500 Btu/gallon for propane (AP-42, Appendix A, page A-5).
PM10-PRI		LB	E3GAL	0.91	
PM25-PRI		LB	E3GAL	0.91	
Residential Heating: Kerosene (SCC 2104011000)					
PM10-FIL	1.08	LB	E3GAL	1.08	AP-42 Table 1.3-7 Used EF for Distillate Oil (per EIIP)
PM25-FIL	0.83	LB	E3GAL	0.83	AP-42 Table 1.3-7 Used EF for Distillate Oil (per EIIP)
PM-CON	1.3	LB	E3GAL	1.3	AP-42 Table 1.3-2 Used EF for Distillate Oil (per EIIP)
PM10-PRI		LB	E3GAL	2.38	
PM25-PRI		LB	E3GAL	2.13	

1 PM10-PRI EF = sum of PM10-FIL and PM-CON emission factors; PM25-PRI EF = sum of PM25-FIL and PM-CON emission factors.

Revisions to the NEI for residential LPG and kerosene were completed after the preliminary 2002 NEI was released in February 2004. Connecticut, the District of Columbia, Maine, and Rhode Island approved replacement of the preliminary 2002 NEI estimates with the revised estimates for LPG. Connecticut was the only State that elected to use the NEI for the residential kerosene category, and Connecticut approved replacing the preliminary 2002 NEI for this category with the revised inventory prepared by EPA.

Other Sources of PM Emissions

For States that provided only PM10-FIL and PM25-FIL emissions, PM10-PRI emissions were set equal to PM10-FIL emissions and PM25-PRI emissions were set equal to PM25-FIL emissions. The PM10-PRI and PM25-PRI emissions that were added to the inventory were assigned a data source code of S-02-X-PR where S-02-X represents the code assigned to the PM10-FIL and PM25-FIL emissions provided by the State agency and the "-PR" indicates that the ratio was applied to estimate the primary emissions (in this case, the ratio of primary to filterable emissions is "1").

PM25-PRI emissions missing from State inventories were estimated by applying a ratio of PM25-PRI-to-PM10-PRI emissions to the PM10-PRI emissions provided by the State agency. Table III-3 identifies the agencies with SCCs for which ratios were applied to estimate PM25-PRI emissions. This table also shows the ratios and the reference for the ratios.

Table III-3. SCCs for which PM25-PRI Emissions were Estimated by Applying a Ratio to the PM10-PRI Emissions in the State inventory

SCC	SCC Description	Agency	Ratio of PM25-PRI to PM10-PRI	Reference
2309100010	Industrial Processes: Fabricated Metals: SIC 34: Coating, Engraving, and Allied Services: Electroplating	NY	0.947	AP-42 emission factors for hard chrome plating tank controlled with mist eliminator. AP-42 (Table 12.20-3) shows 94.7% of total PM as less than 2.35 micrometers. Applied factor to State-supplied PM10-PRI emissions to estimate PM25-PRI emissions.
2461023000	Solvent Utilization: Miscellaneous Non-industrial: Commercial: Asphalt Roofing: Total: All Solvent Types	MA	1	No data available; assumed PM25-PRI equals PM10-PRI.
2601000000	Waste Disposal, Treatment, and Recovery: On-site Incineration: All Categories: Total	MD, NH	1	No data available; assumed PM25-PRI equals PM10-PRI.
2610000100	Waste Disposal, Treatment, and Recovery: On-site Incineration: All Categories: Yard Waste - Leaf Species Unspecified	NH	1	No data available; assumed PM25-PRI equals PM10-PRI.
2810001000	Miscellaneous Area Sources: Other Combustion: Forest Wildfires: Total	MD	1	No data available; assumed PM25-PRI equals PM10-PRI.
2810015000	Miscellaneous Area Sources: Other Combustion: Prescribed Burning for Forest Management: Total	MD	1	No data available; assumed PM25-PRI equals PM10-PRI.
2810020000	Miscellaneous Area Sources: Other Combustion: Prescribed Burning of Rangeland: Total	MD	0.86	Based on ratio of PM25-PRI to PM10-PRI for same SCC used by States in 2002 NEI.
2810030000	Miscellaneous Area Sources: Other Combustion: Structure Fires: Total	MD, NH	0.91	NEI Method.
2810050000	Miscellaneous Area Sources: Other Combustion: Motor Vehicle Fires: Total	MD, NH	0.91	NEI Method.

d. 2002 NEI

Merging of NEI Data into State Inventories

The area source inventory provided by each State agency was compared to the 2002 NEI to identify categories in the NEI that were not in each State inventory. The list of categories identified was provided to each State agency and each agency then selected the NEI categories to be added to its inventory. Identification of categories included in the 2002 NEI but not in a State inventory involved a two-step process. First, Pechan identified the categories in the NEI that did not have an electronic match on the data key of the EM table between the State inventory and the NEI. Then, Pechan manually compared the NEI categories without an electronic match to the State inventory to identify and eliminate NEI categories that were in the State inventory but had a different SCC. For example, a State inventory may use a general SCC for a category while the NEI may use different SCCs to breakout emissions at a finer detail. Examples of categories where this typically occurred include the residential wood combustion, open burning of land clearing debris, solvent utilization, and petroleum marketing and transportation categories. In

addition, if a State agency requested that a MANE-VU-sponsored inventory be added to its inventory, the NEI categories that overlapped with the MANE-VU -sponsored categories were removed from the list of NEI categories considered for incorporation into a State inventory.

The source categories in the 2002 NEI that were added to a State inventory can be identified where the data source code starts with "E". These categories can be identified using the data source code field in the NIF 3.0 files or in the summary of area source emissions that contains the data source code.

Revisions to the Preliminary 2002 NEI

During preparation of the MANE-VU inventory, EPA completed revisions to the emissions for six categories in the preliminary 2002 NEI released in February 2004. As agreed to with each State agency, the revised emissions were used in the MANE-VU inventory in lieu of the preliminary 2002 NEI emissions if the agency requested that the category be included.

- Non-Residential Construction (SCC 2311020000): 2002 emissions data replaced data in preliminary 2002 NEI that were carried forward from 1999 NEI.

- Highway Construction (SCC 2311030000): 2002 emissions data replaced data in preliminary 2002 NEI that were carried forward from 1999 NEI.

- Open Burning of Land Clearing Debris (SCC 2610000500): 2002 emissions data replaced data in preliminary 2002 NEI that were carried forward from 1999 NEI. The activity for this category was based on activity prepared for the non-residential and highway construction categories. For 2002, emissions were set to zero for counties with a population that was 80% urban or more based on 2000 Census data. This was not done for the 1999 NEI. For the NEI method, it was assumed that highly urban counties do not allow this activity to take place. Note that 2002 emissions data were already included in the preliminary 2002 NEI for the open burning of residential municipal solid waste, open burning of yard waste, and the residential construction categories.

- Residential LPG Combustion (SCC 2104007000): 2000 emissions data replaced data in the preliminary 2002 NEI that were carried forward from 1999 NEI.

- Residential Kerosene Combustion (SCC 2104011000): 2000 emissions data replaced data in the preliminary 2002 NEI that were carried forward from 1999 NEI.

- Residential Wood Combustion (SCCs starting with 2104008xxx; 4 SCCs for fireplaces and 3 SCCs for woodstoves): The preliminary 2002 NEI emissions were revised to:

- Correct the CO, PM10-PRI, and PM25-PRI emission factors for fireplaces without inserts (this change doubled the emission factors associated with correcting an error in converting the values from g/kg to lb/ton);

- Correct the climate zone map for allocating national activity to States;

- Replace 1997 total residential wood consumption with 2001 estimates (this change reduced wood consumption for fireplaces with inserts and woodstoves);

- Update urban/rural population data to reflect 2002 estimates based on year 2002 total county population and year 2000 county ratios of urban/rural population to total population; and

- Change the data source code from E-02-X (this was incorrect) to E-01-X to reflect 2001 activity data adjusted to 2002.

e. QA Review of Final Inventory

Final QA checks were run on the revised data set to ensure that all corrections provided by the State agencies were incorporated into the State inventories and that there were no remaining QA issues that could be addressed during the duration of the project. After exporting the inventory in Oracle to an Access database in NIF 3.0, the EPA's QA program was run on the Access database and the QA output was reviewed to verify that all QA issues that could be addressed were resolved (EPA, 2004a).

The output file from the EPA's QA program run on the area source inventory is provided in an Access 2000 database along with the Access database containing the area source inventory in NIF 3.0.

<u>Additional Work on Area Source Methods</u>

- Fugitive Dust Emissions from Paved and Unpaved Roads

Review of Methods

This work involved compiling and summarizing information on emission estimation methods and data sources from the MANE-VU State agencies, RPOs, and EPA for the following fugitive dust area source categories: windblown dust, paved and unpaved roads, agricultural tiling and harvesting, and construction activities. A short survey form was prepared and sent to the MANE-VU State agencies to collect information on whether an agency had activity for each category during 2002. For each agency for which activity occurred in its jurisdiction during 2002, information was requested on the methods and data sources it used to prepare its 2002 inventory for each category. This information was used to prioritize the categories (e.g., work on agricultural field burning was eliminated from further consideration if MANE-VU State agencies

did not have activity for this category). The methods and data applied by RPOs other than MANE-VU were obtained from RPO websites and discussions with the RPOs.

The results of this review were documented in a technical memorandum (MANE-VU, 2004b). Based on the results of the review, MANE-VU decided to proceed with developing a paved and unpaved road fugitive dust inventory that incorporated improvements to activity data used in the NEI methodology.

Methods for Improving Paved and Unpaved Road Fugitive Dust Inventory

Fugitive dust emissions from paved and unpaved roads are classified under SCCs 2294000000 and 2296000000, respectively. Fugitive dust emissions from paved and unpaved road traffic were estimated for PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL. Since these categories are not sources of PM-CON, PM10-PRI emissions are equal to PM10-FIL emissions and PM25-PRI emissions are equal to PM25-FIL. The following provides a summary of the methods.

Paved Roads

Several changes were made in the paved road fugitive dust emission calculations to improve these estimates over those prepared for EPA's 2002 NEI. First, the monthly precipitation data representing the number of days in a month with at least 0.01 inches of precipitation were developed at the county level. In comparison, a single monthly precipitation value was used to model an entire State in the 2002 NEI. Thus, the resulting MANE-VU county-specific paved road fugitive dust emission estimates should be more representative of each county than the NEI data since precipitation events can vary significantly from one part of the State to another.

The second improvement made to the paved road fugitive dust emission calculations was the use of county and road-type-specific average vehicle weights. This is an improvement over the NEI where a single average vehicle weight is applied nationwide. Thus, in the MANE-VU inventory, county/road type combinations with significant heavy truck traffic have a higher average vehicle weight and a corresponding emission factor compared to county/road type combinations with primarily lighter vehicle traffic.

The final improvement made to the MANE-VU paved road emission calculations was the use of the winter silt loading adjustments. These adjustments account for the application of sand and salt on the roads during months with frozen precipitation. The 2002 NEI does not include any wintertime silt loading adjustments. The effect of the wintertime silt loading adjustments is an increase in the paved road emission factors during the months in which it is applied. The months during which this adjustment was applied varied by State in the MANE-VU inventory.

Unpaved Roads

The county-specific precipitation data used in the paved road fugitive dust calculations were also used to improve the unpaved road fugitive dust calculations. As with the paved roads, this represents an improvement over the State-specific precipitation data used in the 2002 NEI

unpaved road emission inventory. The other improvement made to the unpaved roads was the use of State-supplied unpaved road mileage data by county for Maine.

- Wildfires and Prescribed Burning

Review of Methods

This work involved compiling and summarizing information on emission estimation methods and data sources from the MANE-VU State agencies, RPOs, and EPA for the following area source categories: wildfires, prescribed burning, slash burning, and agricultural field burning. The approach previously described for the fugitive dust categories was used to collect and compile data from the MANE-VU State agencies, RPOs other than MANE-VU, and EPA for the fire categories. All of the information collected from these various information sources was summarized in a technical memorandum (MANE-VU, 2004c).

Results of Methods Review

MANE-VU recognized the need to improve the methods for estimating emissions for the fire categories. The most important revision would be to inventory fire events as point sources rather than as area sources at the county-level. However, due to resource constraints, it was decided not to pursue improvements to the methods for estimating emissions from the fire categories. It should be noted that during this project, some of the MANE-VU States provided revisions to their wildfire and prescribed burning inventories to add PM25-PRI emissions and to improve the spatial allocation of activity data at the county level. These improvements were incorporated into the MANE-VU area source inventory.

3. Version 3 Revisions

The following explains revisions to Version 3 that applied to several or all of the MANE-VU States.

<u>Gap Filling</u>

In Version 2 of MANE-VU's inventory, emissions for PFCs, industrial adhesives, and residential outdoor wood burning existed for some States but were missing for other States. Since these are categories for which SIP rules may be developed, it was determined that emissions for these categories should be added to Version 3. The following provides a summary of the Version 3 revisions to address missing data concerns for these categories:

- PFCs: MANE-VU estimated default 2002 emissions for these States using a per capita emission factor and county population data for each State. The derivation of the emission factor, population data, and calculation of annual and daily VOC emissions for PFCs is provided in an Excel file named "PFC_Adhesive Calcs for 2002_022106.xls" along with this TSD.

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont elected to use MANE-VU's default inventory which was added to Version 3. Massachusetts elected to use the per capita emission factor but provided revisions to the population data, used 2002 owner occupied units to allocate the emissions to counties, and then allocated emissions between the commercial (16%) and residential (84%) sectors. Massachusetts' calculations are provided in the spreadsheet named "Version 3 Revisions" in the Excel file named MA_AR_QA_Report_030806.xls" provided with this TSD.

- Industrial Adhesives: Emissions for industrial adhesives were missing in Version 2 for Connecticut, the District of Columbia, Delaware, Maryland, Massachusetts, and Rhode Island. MANE-VU estimated default 2002 emissions for these States using a per capita emission factor and county population data for each State. The derivation of the emission factor, population data, and calculation of annual and daily VOC emissions for industrial adhesives is provided in an Excel file named "PFC_Adhesive Calcs for 2002_022106.xls" along with this TWD.

  Massachusetts elected to use MANE-VU's gap-filling inventory which was added to Version 3. The rest of the States elected to use EPA's 2002 inventory which is based on a top-down, mass balance methodology where national industrial adhesive solvent estimates were allocated to counties using industrial employment. The EPA estimates were adjusted to remove uncontrolled VOC emissions included in the final 2002 point source NEI. The point-source adjustments were conducted at the county level. Note that the point-source-adjusted emissions for Rhode Island are zero for all three counties.

  Note New Jersey is the only State that prepared its own 2002 inventory for this category that is included in Version 3. The industrial adhesive inventory data for the rest of the MANE-VU States originates from the 1999 NEI. These States were contacted to determine if they wanted the 1999 data replaced with the default estimates or with the EPA's 2002 inventory for industrial adhesives. Maine commented that the 1999 estimates are more realistic of the solvent emissions for their State than the 2002 NEI or MANE-VU default estimates. The other States did not indicate that they wanted their data replaced. Therefore, the 1999 NEI data for Maine, New Hampshire, New York, Pennsylvania, and Vermont was not changed in Version 3 of MANE-VU's inventory.

- Residential Wood Burning: Residential outdoor wood burning emissions were missing in Version 2 of the MANE-VU inventory for the District of Columbia, Pennsylvania, Rhode Island, and Vermont. In Versions 1 and 2, New Jersey's and New York's emissions for outdoor wood burning were included with their inventory for indoor wood burning. The District of Columbia, Rhode Island, and Vermont elected to use MANE-VU's outdoor wood burning inventory which was added to Version 3. In addition, per direction provided by New Jersey, its wood burning inventory was replaced with the MANE-VU-sponsored indoor wood burning inventory in Version 3, and the MANE-VU outdoor wood burning inventory was added to Version 3.

New York's inventory in Version 2 included emissions for both residential indoor and outdoor wood burning. For Version 3, New York provided revisions that lowered its overall emissions relative to Version 2 and broke out its inventory to show emissions for fireplaces, woodstoves, and outdoor equipment separately. New York also added NH_3 emissions to its inventory for Version 3.

Adjustments to $PM_{2.5}$ Emissions for Fugitive Dust Categories

Information developed by the Western Governors' Association, Western Regional Air Partnership (WRAP) Dust Emissions Joint Forum and EPA indicates that, for paved and unpaved roads and the construction nonpoint source categories, the $PM_{2.5}$-to-PM_{10} ratio is lower than the ratio used in the EPA method to estimate PM25-PRI/-FIL emissions from PM10-PRI/-FIL emissions (WRAP, 2005). Therefore, for the final 2002 NEI, EPA applied an adjustment factor to the PM25-PRI/-FIL emissions to correct for overestimates of PM25-PRI/-FIL emissions for these categories. Because the $PM_{2.5}$-to-PM_{10} ratio used for the MANE-VU States is based on the EPA method, this information was communicated to the MANE-VU States and all of the States agreed that these adjustments should be made to the MANE-VU inventory. Table III-4 identifies the categories to which this adjustment was applied, the old and new $PM_{2.5}$-to-PM_{10} ratios, and the adjustment factors applied to the PM25-PRI/-FIL emissions in Version 3 of MANE-VU's inventory. Note that these adjustments to $PM_{2.5}$ emissions were applied prior to applying the transport adjustment factors for PM_{10} and $PM_{2.5}$ emissions. The modelers applied the transport adjustment factors to the mass emissions in Version 3. Documentation of the file containing the transport adjustment factors is provided under "Speciation Profiles" section of Table VII-1 in Chapter VII.

For the construction categories, the EPA assumed an original $PM_{2.5}$-to-PM_{10} ratio of 0.15 and an adjustment factor of 0.67. However, the original $PM_{2.5}$-to-PM_{10} ratio used for both the NEI method and MANE-VU's inventory for construction is 0.2. Based on discussions with EPA, the goal is to revise the original $PM_{2.5}$ emissions such that the $PM_{2.5}$-to-PM_{10} ratio is 0.1. Therefore, for Version 3 of MANE-VU's 2002 area source inventory, an adjustment factor of 0.5 (ratio of 0.1-to-0.2) was applied to adjust the $PM_{2.5}$ emissions.

Note that based on Pechan's discussions with EPA during the week of March 6, 2006 concerning the application of the paved road $PM_{2.5}$ adjustment factor, it was determined that adjusting the emissions by applying the factor (shown in Table III-4) to the $PM_{2.5}$ emissions is a simplistic approach. The EPA noted that it is evaluating this issue and will be issuing guidance in the near future for revising the equation for estimating $PM_{2.5}$ emissions which, when applied, will likely yield different results. Because EPA was unable to provide guidance on how to address this issue before Version 3 needed to be completed during the week of March 6, the adjustment factor shown in Table III-4 was applied to the $PM_{2.5}$ emissions for paved roads because this adjustment will provide a better estimate of $PM_{2.5}$ emissions than the unadjusted emissions.

Table III-4. Revisions to PM25-PRI and PM25-FIL Emissions for Paved and Unpaved Roads and Construction

SCC	SCC Description	Original $PM_{2.5}$-to-PM_{10} Ratio	Revised $PM_{2.5}$-to-PM_{10} Ratio	Adjustment Factor[1,2]
2294000000	Mobile Sources : Paved Roads : All Paved Roads : Total: Fugitives	0.25	0.15	0.6
2296000000	Mobile Sources : Unpaved Roads : All Unpaved Roads : Total: Fugitives	0.15	0.1	0.67
2296005000	Mobile Sources : Unpaved Roads : Public Unpaved Roads : Total: Fugitives	0.15	0.1	0.67
2296010000	Mobile Sources : Unpaved Roads : Industrial Unpaved Roads : Total: Fugitives	0.15	0.1	0.67
2311000000	Industrial Processes : Construction: SIC 15 - 17 : All Processes : Total	0.2	0.1	0.50
2311010000	Industrial Processes : Construction: SIC 15 - 17 : Residential : Total	0.2	0.1	0.50
2311010040	Industrial Processes : Construction: SIC 15 - 17 : Residential : Ground Excavations	0.2	0.1	0.50
2311020000	Industrial Processes : Construction: SIC 15 - 17 : Industrial/Commercial/Institutional : Total	0.2	0.1	0.50
2311020040	Industrial Processes : Construction: SIC 15 - 17 : Industrial/Commercial/Institutional : Ground Excavations	0.2	0.1	0.50
2311030000	Industrial Processes : Construction: SIC 15 - 17 : Road Construction : Total	0.2	0.1	0.50

[1] For these categories, filterable and primary emissions are equal because they are not sources of condensible emissions. The adjustment factor was applied to both the PM25-PRI and PM25-FIL emissions and emission factors in the MANE-VU inventory.
[2] See text for discussion of issue concerning the adjustment factor for paved road $PM_{2.5}$ emissions. Also, for construction, see text for explanation of $PM_{2.5}$ adjustment factor shown in this table.

Removal of Invalid CE Records

For the following SCCs, Version 2 contained invalid CE records for Connecticut, the District of Columbia, Maine, New Hampshire, New York, Pennsylvania, Rhode Island, and Vermont that were removed in Version 3:

SCC	SCC Description
2311020000	Construction: SIC 15 - 17 : Industrial/Commercial/Institutional : Total
2311030000	Construction: SIC 15 - 17 : Road Construction : Total
2610000100	Open Burning : All Categories : Yard Waste - Leaf Species Unspecified
2610000400	Open Burning : All Categories : Yard Waste - Brush Species Unspecified
2610030000	Open Burning : Residential : Household Waste

The CE records all originate from the preliminary 2002 NEI that have been removed from the final 2002 nonpoint NEI. They are invalid because they have a control efficiency value of 100% and corresponding records in the EM table with rule effectiveness and rule penetration values of 100% (implying that the emissions are zero), but with emissions greater than zero. The Excel spreadsheet file named “CE_records_removed from V3.xls” provides the CE records by State and county FIPS, SCC, and pollutant code that were removed in Version 3.

4. Version 3 Emissions Summary

Table III-5 presents a State-level summary of the annual area source emissions in Version 3 of the 2002 MANE-VU inventory. Note that PM10-PRI and PM25-PRI emissions are included in the inventory for all SCCs for which State agencies reported any form of PM, PM_{10}, and/or $PM_{2.5}$ emissions. If an agency did not report PM10-PRI and/or PM25-PRI but reported PM-PRI, PM-FIL, PM-CON, PM10-FIL, and/or PM25-FIL, the PM augmentation procedures discussed in the TSD were applied to the form of PM emissions supplied by the agency to calculate emissions for the other forms of PM emissions. If an agency reported PM10-PRI and/or PM25-PRI emissions but not PM10-FIL, PM25-FIL, or PM-CON emissions, the agency's inventory was not augmented to calculate filterable or condensible emissions. Note that PM-CON is associated with only fuel combustion sources.

For NH_3, the area source inventory includes emissions for natural sources for the following States: SCCs 28060xxxxx for domestic cats and dogs in Delaware, Massachusetts, and New Jersey; 28070xxxxx for wild animals in Delaware, Massachusetts, New Jersey, and New York; and SCC 2810010000 for human perspiration in Delaware, Massachusetts, and New Jersey. The area source inventory also includes NH_3 biogenic emissions (SCC 2701420000) for Massachusetts.

Table III-5. Version 3 2002 MANE-VU Area Source Emissions by State (Tons/Year)

State	CO	NH_3	NO_x	PM10-FIL	PM10-PRI	PM25-FIL	PM25-PRI	PM-CON	SO_2	VOC
Connecticut	70,198	5,318	12,689	37,790	48,281	4,038	14,247	846	12,418	87,302
Delaware	14,052	13,279	2,608	12,910	13,039	3,075	3,204	128	1,588	15,519
District of Columbia	2,300	14	1,644	5,745	6,293	507	1,029	147	1,337	6,432
Maine	109,223	8,747	7,360	155,237	168,953	19,090	32,774	686	13,149	100,621
Maryland	141,178	25,834	15,678	31,116	95,060	3,375	27,318	611	12,393	120,254
Massachusetts	136,552	18,809	31,358	150,046	192,839	23,354	42,067	1,156	54,923	162,016
New Hampshire	79,647	2,158	10,960	32,138	43,328	6,688	17,532	449	7,072	65,370
New Jersey	97,657	17,572	26,692	37,282	61,601	2,811	19,350	476	10,744	167,882
New York	356,254	67,422	98,803	288,991	369,595	30,894	87,154	102	130,409	507,292
Pennsylvania	266,935	79,911	47,591	363,173	391,897	51,792	74,925	266	63,679	240,785
Rhode Island	8,007	883	3,886	7,090	8,295	887	2,064	336	4,557	31,402
Vermont	43,849	9,848	3,208	51,392	56,131	6,729	11,065	180	4,087	23,265
MANE-VU	**1,325,853**	**249,795**	**262,477**	**1,172,909**	**1,455,311**	**153,243**	**332,729**	**5,383**	**316,357**	**1,528,141**

B. State-Specific Methods

For each of the MANE-VU States, this section identifies the temporal basis of the emissions included in Version 3 and discusses revisions incorporated into Version 3. In addition, this section also discusses the origin of each State agency's emissions included in Version 3. For each agency, a table is provided in Appendix B that lists the data source codes by SCC, emission type period, and pollutant. In addition, an electronic folder is provided for each State agency containing the QA Summary Reports prepared for Versions 1, 2, and/or 3 and other files documenting revisions included in Versions 2 and 3. Except for Rhode Island, a QA Summary Report was prepared for Version 1. Subsequently, a QA Summary Report was prepared for States that provided Version 2 or 3 revisions. Rhode Island elected to use EPA's draft 2002 NEI for Versions 1 and 2 but provided revisions for Version 3; therefore, a QA Summary Report is available for Version 3 only for Rhode Island.

1. Connecticut

Table III-6 shows the emission type periods for which Connecticut provided emissions.

Table III-6. Connecticut 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20020601	20020831	27
DAILY	20020601	20020831	29

Table B-1 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Connecticut provided 2002 emissions for many of the area source categories in Version 3. Connecticut elected to use the EPA's 2002 inventory for industrial adhesives. Connecticut elected to use MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for indoor and outdoor residential wood combustion;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual and daily NH_3 emissions for industrial refrigeration processes;
- Annual and daily VOC emissions for PFCs; and
- Annual and daily VOC and NH_3 emissions for composting.

Emissions for the remaining area source categories were taken from the draft 2002 NEI. For Connecticut, these emissions are either based on 2002 data prepared by EPA or carried forward

from final Version 3 of the 1999 NEI. Data carried forward from the 1999 NEI originate from either State data included in the 1999 NEI or EPA data developed for the 1999 NEI.

2. Delaware

Table III-7 shows the emission type periods for which Delaware provided emissions.

Table III-7. Delaware 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type	Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20020831	30	DAILY	20011201	20020228	27
ANNUAL	20020101	20021231	30	DAILY	20020101	20020831	27
ANNUAL	20020512	20020512	30	DAILY	20020512	20020512	27
ANNUAL	20020629	20020629	30	DAILY	20020601	20020831	27
ANNUAL	20021029	20021029	30	DAILY	20020629	20020629	27
ANNUAL	20021104	20021104	30	DAILY	20021029	20021029	27
ANNUAL	20021205	20021205	30	DAILY	20021104	20021104	27
				DAILY	20021205	20021205	27

Table B-2 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Delaware provided 2002 emissions for the majority of the area source categories in Version 3, and used 2002 data that EPA prepared for the draft 2002 NEI or MANE-VU-sponsored inventories for the remaining categories. Delaware elected to use the EPA's 2002 inventory for industrial adhesives, and prepared its own inventory for PFCs. Delaware elected to use data from MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for indoor and outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved roads (note: there are no unpaved roads in Delaware);
- Annual and daily NH_3 emissions for POTWs; and
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM10-FIL, PM25-PRI, PM25-FIL, and SO_2 emissions for open burning categories.

3. District of Columbia

Table III-8 shows the emission type periods for which the District of Columbia provided emissions.

Table III-8. District of Columbia 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20020601	20020831	27

Table B-3 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. The District of Columbia provided 2002 emissions for the majority of the area source categories in Version 3. The District of Columbia provided annual VOC emissions for PFCs for Version 2 that were kept in Version 3. The District of Columbia elected to use the EPA's 2002 inventory for industrial adhesives and indoor wood burning. The exception is for the following categories for which the District of Columbia elected to use data from MANE-VU-sponsored inventories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved roads (note: there are no unpaved roads in the District of Columbia);
- Annual and daily VOC and NH_3 emissions for composting; and
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for open burning categories.

4. Maine

Table III-9 shows the emission type periods for which Maine provided emissions.

Table III-9. Maine 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20020601	20020831	27
DAILY	20020601	20020831	29
DAILY	20020601	20020929	29

Table B-4 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Maine provided 2002 emissions for many of the area source categories in Version 3. Maine's inventory for industrial adhesives originates from the 1999 NEI. Maine provided annual and daily VOC and annual NH_3 emissions for industrial wastewater treatment that were added to Version 3. Maine elected to use data from MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for indoor and outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual and daily VOC emissions for PFCs; and
- Annual and daily VOC and NH_3 emissions for composting.

5. Maryland

Table III-10 shows the emission type periods for which Maryland provided emissions. Table B-5 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC.

Table III-10. Maryland 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type	Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30	MONTHLY	20020101	20020131	30
SEASONAL	20020401	20020930	30	MONTHLY	20020201	20020228	30
SEASONAL	20020401	20021031	30	MONTHLY	20020301	20020331	30
SEASONAL	20020601	20020831	30	MONTHLY	20020401	20020430	30
DAILY	20011201	20020228	27	MONTHLY	20020501	20020531	30
DAILY	20020101	20021231	29	MONTHLY	20020601	20020630	30
DAILY	20020401	20020930	29	MONTHLY	20020701	20020731	30
DAILY	20020401	20021031	29	MONTHLY	20020801	20020831	30
DAILY	20020601	20020831	27	MONTHLY	20020901	20020930	30
DAILY	20020601	20020831	29	MONTHLY	20021001	20021031	30
				MONTHLY	20021101	20021130	30
				MONTHLY	20021201	20021231	30

Maryland provided 2002 annual, seasonal, and daily emissions for the majority of the area source categories in Version 3 and used 2002 data that EPA prepared for the draft 2002 NEI for industrial adhesives and commercial cooking. Maryland prepared its own inventory for PFCs.

Maryland elected to use data from MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for indoor and outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM10-FIL, PM25-PRI, PM25-FIL, and SO_2 emissions for open burning categories; and
- Annual and monthly NH_3 emissions for agricultural crop fertilizers.

For Version 2, Maryland provided revisions to annual, seasonal, and daily VOC emissions for SCC 2505030120 (Storage and Transport : Petroleum and Petroleum Product Transport : Truck : Gasoline). Maryland also removed PM10-FIL and PM25-FIL annual, seasonal, and daily records for open burning of land clearing debris (SCC 2610000500). Maryland had revised the PM10-PRI and PM25-PRI emissions in an earlier version of the MANE-VU inventory but not the PM10-FIL and PM25-FIL. As a result of revising the primary emissions, the filterable emissions were no longer met the consistency check as compared to the primary emissions.

QA of PM emissions in Version 3 identified one record for Maryland in county 510 for SCC 2801000003 (Agriculture - Crops : Tilling) where PM10-PRI annual emissions are 2317.2 tons and PM25-PRI annual emissions are 0 tons. For the other counties in Maryland with this SCC, PM25-PRI emissions are about 20% of the PM10-PRI emissions. This issue was not addressed due to time and resource constraints for completing revisions to Version 3.

6. Massachusetts

Table III-11 shows the emission type periods for which Massachusetts provided emissions.

Table III-11. Massachusetts 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20020601	20020831	27
DAILY	20020601	20020831	29

Table B-6 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Massachusetts provided 2002 annual and daily emissions for the majority of the area source categories in Version 3 and used 2002 data that EPA prepared for the draft 2002 NEI for residential coal combustion, asphalt roofing, and agricultural livestock (NH_3).

Massachusetts elected to use data from MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for indoor and outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual and daily VOC emissions for industrial adhesives and PFCs;
- Annual and daily NH_3 emissions for industrial refrigeration processes;
- Annual and daily VOC and NH_3 emissions for composting; and
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM10-FIL, PM25-PRI, PM25-FIL, and SO_2 emissions for open burning categories.

For Version 2, Massachusetts revised annual and summer day VOC emissions for 14 counties for the following categories: aircraft refueling, surface coating, degreasing, miscellaneous non-industrial: consumer and commercial products and pesticides, and gasoline service stations (stage 1: balanced submerged fill). Massachusetts also revised annual and daily emissions for 14 counties for forest wildfires, revised annual emissions for four counties for residential open burning of brush using the correct rule penetration factors for the counties, and revised control efficiency and control device data for selected categories in the CE table.

For Version 3, Massachusetts revised annual and summer day VOC emissions for 14 counties for auto refinishing. In the CE table, Massachusetts changed control device code 102 (low-solvent coatings) to 000 (uncontrolled) and associated control efficiency values were set to null for all counties. Massachusetts also added annual and summer day VOC emissions for 14 counties for gasoline service stations (stage 2: displacement loss/controlled).

For PFCs, Massachusetts elected to use the per capita emission factor but provided revisions to the population data, used 2002 owner occupied units to allocate the emissions to counties, and then allocated emissions between the commercial (16%) and residential (84%) sectors. Massachusetts' calculations are provided in the spreadsheet named "Version 3 Revisions" in the Excel file named MA_AR_QA_Report_030806.xls".

7. New Hampshire

Table III-12 shows the emission type periods for which New Hampshire provided emissions. Table B-7 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. New Hampshire provided 2002 emissions for many of the area source categories in Version 3. New Hampshire's inventory for industrial adhesives originates from the 1999 NEI.

Table III-12. New Hampshire 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20020601	20020831	27
DAILY	20020601	20020831	29
MONTHLY	20020101	20020131	30
MONTHLY	20020201	20020228	30
MONTHLY	20020301	20020331	30
MONTHLY	20020401	20020430	30
MONTHLY	20020501	20020531	30
MONTHLY	20020601	20020630	30
MONTHLY	20020701	20020731	30
MONTHLY	20020801	20020831	30
MONTHLY	20020901	20020930	30
MONTHLY	20021001	20021031	30
MONTHLY	20021101	20021130	30
MONTHLY	20021201	20021231	30

New Hampshire elected to use data from MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for indoor and outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual and daily VOC emissions for PFCs;
- Annual and daily NH_3 emissions for industrial refrigeration processes and POTWs;
- Annual and daily VOC and NH_3 emissions for composting;
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for open burning categories; and
- Annual and monthly NH_3 emissions for agricultural crop fertilizers and livestock.

Emissions for the remaining area source categories were taken from the draft 2002 NEI; these emissions are either based on 2002 data prepared by EPA or EPA data carried forward from final Version 3 of the 1999 NEI.

New Hampshire provided revisions to Version 2 that were kept in Version 3. For Version 2, New Hampshire revised annual and daily VOC emissions for the gasoline storage and transport sector to reflect revisions it made to the 2002 inventory that EPA prepared for the 2002 NEI. The categories revised include bulk plant breathing losses, gasoline service stations (stages 1 and 2 total and underground tank breathing and emptying losses), and gasoline tank trucks.

8. New Jersey

Table III-13 shows the emission type periods for which New Jersey provided emissions.

Table III-13. New Jersey 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20011201	20020228	29
DAILY	20020601	20020831	27
DAILY	20020601	20020831	29

Table B-8 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. New Jersey provided 2002 emissions for the majority of the area source categories. New Jersey provided its own 2002 inventory for industrial adhesives and PFCs. Emissions for the remaining area source categories were taken from the draft 2002 NEI (that are either based on 2002 data prepared by EPA or EPA data carried forward from final Version 3 of the 1999 NEI) or MANE-VU-sponsored inventories. New Jersey elected to use MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for indoor and outdoor residential wood combustion (replacing New Jersey's indoor residential wood combustion inventory provided in Versions 1 and 2);
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved roads;
- Annual and daily NH_3 emissions for industrial refrigeration processes and POTWs; and
- Annual and daily VOC and NH_3 emissions for composting.

For Version 3, New Jersey added annual and summer day VOC emissions for 21 counties for SCC 2501060100 (gasoline service stations : stage 2: total). The emissions are summarized in the spreadsheet named "Version 3 Revisions" in the Excel file named "NJ_AR_QA_Report_ 030806.xls". New Jersey provided 2002 emissions data for the industrial adhesives and PFC categories in Version 1. For Version 2, New Jersey corrected PM25-PRI emissions that were greater than PM10-PRI emissions for SCC 2601000000 (on-site incineration : all categories : total).

9. New York

Table III-14 shows the emission type periods for which New York provided emissions. Table B-9 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination or

because emissions are not reported for all pollutants for the same SCC and emission type period combination.

Table III-14. New York 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
MONTHLY	20020101	20020131	30
MONTHLY	20020201	20020228	30
MONTHLY	20020301	20020331	30
MONTHLY	20020401	20020430	30
MONTHLY	20020501	20020531	30
MONTHLY	20020601	20020630	30
MONTHLY	20020701	20020731	30
MONTHLY	20020801	20020831	30
MONTHLY	20020901	20020930	30
MONTHLY	20021001	20021031	30
MONTHLY	20021101	20021130	30
MONTHLY	20021201	20021231	30

New York provided revisions to annual emissions for all 62 counties for the categories and pollutants shown in Table III-15. This revision completely replaced the 2002 emissions that New York provided in Version 2. Table III-15 also identifies categories and pollutants for which emissions were added to Version 3 (i.e., not in Version 2). The emissions are summarized in the spreadsheet named "Version 3 Revisions" in the Excel file named NY_AR_QA_Report_030806.xls".

New York's inventory in Version 2 included emissions for both residential indoor and outdoor wood burning. For Version 3, New York provided revisions that lowered its overall emissions relative to Version 2 and broke out its inventory to show emissions for fireplaces, woodstoves, and outdoor equipment separately. New York also added NH_3 emissions to its inventory for Version 3. New York's inventory for industrial adhesives originates from the 1999 NEI. New York provided its own 2002 inventory for PFCs. Emissions for the remaining area source categories were taken from the draft 2002 NEI (that are either based on 2002 data prepared by EPA or EPA data carried forward from final Version 3 of the 1999 NEI) or MANE-VU-sponsored inventories.

New York elected to use MANE-VU-sponsored inventories for the following source categories:

- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual and daily NH_3 emissions for agricultural livestock; and
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for open burning categories.

A QA issue that may affect the use of the MANE-VU inventory for air quality modeling and revisions to the projection year inventory is the addition of SCCs 2103004001 and 2103004002 by New York that are not in EPA's master SCC list used by the EPA QA program. These SCCs are defined in Table III-15. In addition, the QA program shows SCCs for PFCs and outdoor wood burning as invalid because EPA has not updated the master list to include these SCCs for the EPA QA program. These SCCs were included in Version 2 and should have been assigned speaciation profiles and included in the projection year inventory prepared from Version 2.

Table III-15. Summary of New York's Revisions to Version 3 of MANE-VU's Area Source Inventory

SCC	SCC Description	Pollutant	Type of Revision to Emissions
Revisions to Waste Disposal, Treatment, and Recovery : Wastewater Treatment			
2630020000	Public Owned : Total Processed	VOC	Revised emissions for all pollutants
Revisions to Stationary Source Fuel Combustion : Residential : Wood			
2104008001	Fireplaces: General	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Added NH3, revised emissions for rest of pollutants
2104008052	Non-catalytic Woodstoves: Low Emitting	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Added emissions for all pollutants
2104008070	Outdoor Wood Burning Equipment	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Added emissions for all pollutants
Revisions to Stationary Source Fuel Combustion : Electric Utility			
2101001000	Anthracite Coal : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	No change to emissions
2101002000	Bituminous/Subbituminous Coal : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2101004000	Distillate Oil : Total: Boilers and IC Engines	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2101005000	Residual Oil : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2101006000	Natural Gas : Total: Boilers and IC Engines	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
Revisions to Stationary Source Fuel Combustion : Industrial			
2102001000	Anthracite Coal : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	No change to emissions
2102002000	Bituminous/Subbituminous Coal : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2102004000	Distillate Oil : Total: Boilers and IC Engines	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2102005000	Residual Oil : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2102006000	Natural Gas : Total: Boilers and IC Engines	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2102007000	Liquified Petroleum Gas (LPG) : Total: All Boiler Types	VOC, NOX, CO, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2102008000	Wood : Total: All Boiler Types	VOC, NOX, CO, SO2, PM10-PRI, PM25-PRI	No change to emissions
2102011000	Kerosene : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Added emissions for all pollutants
Revisions to Stationary Source Fuel Combustion : Commercial/Institutional			
2103001000	Anthracite Coal : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	No change to emissions
2103002000	Bituminous/Subbituminous Coal : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2103005000	Residual Oil : Total: All Boiler Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2103004000	Residual Oil : Total: Boilers and IC Engines	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Removed and replaced with data for SCCs 2103004001 and 2103004002
2103004001	Distillate Oil : Boilers	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Added emissions for all pollutants
2103004002	Distillate Oil : IC Engines	VOC, NOX, CO, SO2, PM10-PRI, PM25-PRI	Added emissions for all pollutants
2103006000	Natural Gas : Total: Boilers and IC Engines	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2103007000	Liquified Petroleum Gas (LPG) : Total: All Combustor Types	VOC, NOX, CO, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2103008000	Wood : Total: All Boiler Types	VOC, NOX, CO, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2103011000	Kerosene : Total: All Combustor Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Added emissions for all pollutants

Table III-15. Summary of New York's Revisions to Version 3 of MANE-VU's Area Source Inventory (Continued)

SCC	SCC Description	Pollutant	Type of Revision to Emissions
Revisions to Stationary Source Fuel Combustion : Residential			
2104001000	Anthracite Coal : Total: All Combustor Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	No change to emissions
2104002000	Bituminous/Subbituminous Coal : Total: All Combustor Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2104004000	Distillate Oil : Total: All Combustor Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2104006010	Natural Gas : Residential Furnaces	VOC, NOX, CO, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2104007000	Liquified Petroleum Gas (LPG) : Total: All Combustor Types	VOC, NOX, CO, SO2, PM10-PRI, PM25-PRI	Revised emissions for all pollutants
2104011000	Kerosene : Total: All Heater Types	VOC, NOX, CO, NH3, SO2, PM10-PRI, PM25-PRI	Added emissions for all pollutants

10. Pennsylvania

Table III-16 shows the emission type periods for which Pennsylvania provided emissions.

Table III-16. Pennsylvania 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type	Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30	MONTHLY	20020101	20020131	30
DAILY	20011201	20020228	27	MONTHLY	20020201	20020228	30
DAILY	20020601	20020831	27	MONTHLY	20020301	20020331	30
				MONTHLY	20020401	20020430	30
				MONTHLY	20020501	20020531	30
				MONTHLY	20020601	20020630	30
				MONTHLY	20020701	20020731	30
				MONTHLY	20020801	20020831	30
				MONTHLY	20020901	20020930	30
				MONTHLY	20021001	20021031	30
				MONTHLY	20021101	20021130	30
				MONTHLY	20021201	20021231	30

Table B-10 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Note that some SCC and emission type period combinations are listed more than once because the data source codes are different for more than one SCC and emission type period combination. Pennsylvania provided 2002 emissions for the majority of the area source categories. Pennsylvania provided its own 2002 inventory for PFCs and residential indoor wood burning. Pennsylvania's inventory for industrial adhesives originates from the 1999 NEI. Emissions for the remaining area source categories were taken from the draft 2002 NEI (that are either based on 2002 data prepared by EPA or EPA data carried forward from final Version 3 of the 1999 NEI) or MANE-VU-sponsored inventories.

Pennsylvania elected to use MANE-VU-sponsored inventories for the following source categories:

- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual and daily NH_3 emissions for industrial refrigeration processes and agricultural crop fertilizers and livestock;
- Annual and daily VOC and NH_3 emissions for POTWs and composting; and
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for open burning categories.

11. Rhode Island

Table III-17 shows the emission type periods for which Rhode Island provided emissions.

Table III-17. Rhode Island 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20020601	20020831	27
DAILY	20020601	20020831	29

Table B-11 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Rhode Island provided 2002 annual VOC emissions for several solvent utilization categories (surface coating, degreasing, graphic arts, rubber/plastics, and industrial adhesive); annual and daily VOC emissions for petroleum and petroleum product storage (gasoline service stations and all transport types); and annual VOC emissions for POTWs. Rhode Island's indoor wood burning inventory originates from the draft 2002 NEI. Emissions for the remaining area source categories were taken from the draft 2002 NEI (that are either based on 2002 data prepared by EPA or EPA data carried forward from final Version 3 of the 1999 NEI) or MANE-VU-sponsored inventories.

Rhode Island elected to use MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads; and
- Annual and daily VOC emissions for PFCs.

12. Vermont

Table III-18 shows the emission type periods for which Vermont provided emissions.

Table III-18. Vermont 2002 Area, Version 3: Unique List of Start Date, End Date, and Emission Types

Emission Type Period	Start Date	End Date	Emission Type
ANNUAL	20020101	20021231	30
DAILY	20011201	20020228	27
DAILY	20020601	20020831	27
DAILY	20020601	20020831	29

Table B-12 in Appendix B identifies the data sources by SCC, emission type period, and pollutant in the Version 3 area source inventory. This table also shows the number of counties by SCC. Vermont provided 2002 annual VOC, NO_x, CO, PM10-PRI or PM10-FIL, PM25-PRI or PM25-FIL, and SO_2 emissions for residential fuel combustion (distillate oil, natural gas, LPG, and indoor wood burning); annual VOC emissions for gasoline service stations and breathing losses at bulk terminals; annual VOC, NO_x, CO, PM10-PRI, PM25-PRI, and SO_2 emissions for residential open burning; annual VOC, NO_x, CO, NH_3, PM10-PRI, and PM25-PRI emissions for forest fires, and annual VOC, NO_x, CO, PM10-PRI, and PM25-PRI emissions for structure fires. Vermont's inventory for industrial adhesives originates from the 1999 NEI.

For Version 2, Vermont provided revisions to EPA's draft 2002 inventory for SCC 2501050120 (bulk stations and terminals : breathing loss : gasoline) to incorporate the effects of vapor balance controls not accounted for in the EPA estimates. The revised inventory for this category was added to Version 2 (and kept in Version 3) that did not include this category. Control records were added to the NIF 3.0 CE table for the counties with vapor balance controls. In addition, Vermont provided emissions for three counties (i.e., county FIPS codes 50015, 50017, and 50019) that were not in EPA's inventory. Emissions for the remaining area source categories were taken from the draft 2002 NEI (that are either based on 2002 data prepared by EPA or EPA data carried forward from final Version 3 of the 1999 NEI) or MANE-VU-sponsored inventories. Vermont elected to use MANE-VU-sponsored inventories for the following source categories:

- Annual and daily VOC, NO_x, CO, NH_3, PM10-PRI, PM25-PRI, and SO_2 emissions for outdoor wood burning;
- Annual PM10-PRI, PM10-FIL, PM25-PRI, and PM25-FIL emissions for paved and unpaved roads;
- Annual and daily NH_3 emissions for industrial refrigeration processes and POTWs;
- Annual and daily VOC emissions for PFCs;
- Annual and daily VOC and NH_3 emissions for composting; and
- Annual VOC, NO_x, CO, NH_3, PM10-PRI, PM10-FIL, PM25-PRI, PM25-FIL, and SO_2 emissions for open burning categories.

C. What Issues Need to be Addressed in Future Versions?

This section provides a summary of potential revisions to incorporate into future versions of the MANE-VU area source inventory.

All States – A coordinated effort between the State agencies should be developed to apply consistent methods to avoid having to apply procedures to augment inventory data to correct for the QA issues and fill in missing data as discussed previously in this chapter. For example, this will ensure that consistent methods are applied across State agencies to ensure consistent and accurate reporting of source categories using the same SCCs across States, PM emissions, and minimize other QA issues that were identified during the development of Versions 1, 2, and 3 of the inventory.

For PM emissions, the State agencies should develop and apply a consistent method for including condensible emissions for fuel combustion sources that can be applied when the agencies develop their inventories. This may include compiling the emission factors for all forms of PM into one database, organized by SCC and control type (for filterable emissions), and sharing the database among the MANE-VU State agencies. Use of a consistent set of emission factors will help to avoid the PM consistency issues identified in Versions 1, 2, and 3 of the MANE-VU inventory as well as ensure that condensible emissions are included in the primary emissions reported in the inventory.

State-specific suggestions are as follows:

Delaware: Revise the residential wood combustion emissions inventory with the latest revisions sponsored by MARAMA.

Rhode Island: This State felt that the area sources (from the nonpoint inventory EPA prepared) which they had changed to zeros in Version 3 would revert back to the Version 2 numbers which were from the EPA report. Rhode Island would like to see this change in the next version of the inventory. (Table with changes can be received upon request).

New Jersey:

- Why is the EPA VOC emission factor for fireplaces completely out of proportion with the other emission factors? The ratio of conventional wood stoves/fireplaces = 0% to 10% for other pollutants and is 77% for VOC. It is discussed in the Pechan Technical Memo #5, 9/3/03, page 19, how a study of the accuracy of the emission factors showed the VOC should be more like 10 to 30 lb/ton, instead of 229 lb/ton and the woodstove emission factors (certified) should be higher than Emission Inventory Improvement Program guidance.

- The summer seasonal adjustment factors for indoor wood burning used in the model appear high. This combined with the very high VOC emission factor results in high ozone season wood burning emissions.

- In general, the accuracy of the very large residential wood burning numbers, all pollutants.

- The large fugitive dust inventory numbers don not correlate to dust found in monitors, even with the latest 30% to 40% reduction in paved and unpaved road emissions.

- We need consistent guidance from the EPA for adhesives and sealants, PFC, and commercial cooking.

CHAPTER IV – NONROAD SOURCES

A. General Methods for all States

This section provides an overview of the data sources and QA steps used in preparing the 2002 nonroad sector inventory for the MANE-VU States. The nonroad sector is comprised of nonroad engines included in EPA's NONROAD model, as well as other engines not modeled in NONROAD, including aircraft, commercial marine vessels and locomotives.

1. What Data Sources Were Used?

Data sources used for the various nonroad categories are described below.

a. Aircraft, Commercial Marine, and Locomotive Categories

As a starting point, aircraft, commercial marine vessel and locomotive inventories were prepared using the inventories that State agencies submitted to the EPA in June 2004 as a requirement of the CERR. In addition, some States provided data directly to MANE-VU for use in this inventory that were not submitted for the CERR.

Missing data were supplemented with estimates from EPA's preliminary 2002 NEI. For the aircraft and commercial marine vessel source categories, the 2002 NEI CAP emissions were estimated by carrying over the 2001 estimates. 2001 emissions were estimated using the methodologies described in EPA's *Documentation for Aircraft, Commercial Marine Vessel, Locomotive, and Other Nonroad Components of the National Emissions Inventory* (EPA, 2003b). The 2002 locomotive emissions were calculated using 2002 activity data and the methodologies described in the EPA, 2003b documentation.

Table IV-1 provides a summary of the aircraft, commercial marine, and locomotive emission SCCs reported in the MANE-VU inventory. Table IV-2 provides a summary of the basis for these nonroad subsector emissions by State.

Table IV-1. List of Unique Aircraft, Commercial Marine, and Locomotive SCCs Reported by States in MANE-VU Inventory

SCC	SCC Description 1	SCC Description 2	SCC Description 3	SCC Description 4
2275000000	Mobile Sources	Aircraft	All Aircraft Types and Operations	Total
2275001000	Mobile Sources	Aircraft	Military Aircraft	Total
2275020000	Mobile Sources	Aircraft	Commercial Aircraft	Total: All Types
2275050000	Mobile Sources	Aircraft	General Aviation	Total
2275060000	Mobile Sources	Aircraft	Air Taxi	Total
2275070000	Mobile Sources	Aircraft	Aircraft Auxiliary Power Units	Total
2280000000	Mobile Sources	Marine Vessels, Commercial	All Fuels	Total, All Vessel Types
2280002000	Mobile Sources	Marine Vessels, Commercial	Diesel	Total, All Vessel Types
2280002010	Mobile Sources	Marine Vessels, Commercial	Diesel	Ocean-going Vessels
2280002020	Mobile Sources	Marine Vessels, Commercial	Diesel	Harbor Vessels
2280002100	Mobile Sources	Marine Vessels, Commercial	Diesel	Port emissions
2280002200	Mobile Sources	Marine Vessels, Commercial	Diesel	Underway emissions
2280003100	Mobile Sources	Marine Vessels, Commercial	Residual	Port emissions
2280003200	Mobile Sources	Marine Vessels, Commercial	Residual	Underway emissions
2285000000	Mobile Sources	Railroad Equipment	All Fuels	Total
2285002000	Mobile Sources	Railroad Equipment	Diesel	Total
2285002005	Mobile Sources	Railroad Equipment	Diesel	Total Line Haul Locomotives
2285002006	Mobile Sources	Railroad Equipment	Diesel	Line Haul Locomotives: Class I Operations
2285002007	Mobile Sources	Railroad Equipment	Diesel	Line Haul Locomotives: Class II / III Operations
2285002008	Mobile Sources	Railroad Equipment	Diesel	Line Haul Locomotives: Passenger Trains (Amtrak)
2285002009	Mobile Sources	Railroad Equipment	Diesel	Line Haul Locomotives: Commuter Lines
2285002010	Mobile Sources	Railroad Equipment	Diesel	Yard Locomotives

Table IV-2. Summary of Basis for 2002 MANE-VU Aircraft, Commercial Marine, and Locomotive Inventory

FIPSST	State	Basis for Subsector of Nonroad Inventory		
		Aircraft	Commercial Marine Vessels	Locomotives
09	Connecticut	2002 Preliminary NEI	2002 Preliminary NEI	State supplied in March 2006
10	Delaware	June 2004 CERR Submittal; State supplied revisions in Sep 2004	June 2004 CERR Submittal	June 2004 CERR Submittal
11	District of Columbia	Not supplied by State and not available from NEI	2002 Preliminary NEI	June 2004 CERR Submittal
23	Maine	State supplied in Oct 2004	State supplied in Oct 2004	State supplied in Oct 2004
24	Maryland	June 2004 CERR Submittal; State supplied revisions in Sep 2004	June 2004 CERR Submittal; State supplied revisions in Oct 2004	June 2004 CERR Submittal
25	Massachusetts	June 2004 CERR Submittal	State-supplied for June 2004 CERR Submittal, with revisions as directed by State	June 2004 CERR Submittal
33	New Hampshire	June 2004 CERR Submittal	2002 Preliminary NEI	June 2004 CERR Submittal
34	New Jersey	June 2004 CERR Submittal	June 2004 CERR Submittal	June 2004 CERR Submittal
36	New York	2002 Preliminary NEI	State supplied in Oct 2004	2002 Preliminary NEI
42	Pennsylvania	State supplied to Pechan in June 2004	State supplied to Pechan in June 2004	State supplied to Pechan in June 2004; State supplied revisions in Aug 2005
44	Rhode Island	State-supplied for June 2004 CERR Submittal, with revisions as directed by State	State-supplied for June 2004 CERR Submittal, with revisions as directed by State	State-supplied in Oct 2004
50	Vermont	2002 Preliminary NEI	Not supplied by State and not available from NEI	Not supplied by State and not available from NEI

b. NONROAD Model Categories

NONROAD model categories include equipment such as recreational marine and land-based vehicles, farm and construction machinery, and lawn and garden equipment. Aircraft ground support equipment (GSE) and rail maintenance equipment are also included in NONROAD. These equipment are powered by diesel, gasoline, compressed natural gas (CNG) and LPG engines.

EPA released a final version of NONROAD during December 2005 called NONROAD2005 (EPA, 2005a). To reflect the updates made to EPA's final NONROAD model, all MANE-VU Version 2 NONROAD model estimates were replaced with updated NONROAD2005 emission estimates.

EPA also released an updated version of its NMIM, which incorporates the final NONROAD2005 model. EPA's NMIM2005 is a consolidated modeling system that incorporates the NONROAD and MOBILE models, along with a county database of inputs (EPA, 2005b). The NMIM county database contains monthly input data to reflect county-specific fuel parameters and temperatures. Because incorporating revised monthly inputs for use in NMIM2005 is more efficient than preparing county-specific monthly option files needed to run NONROAD2005 independently, Pechan used NMIM2005 for most MANE-VU States. The two exceptions were for the District of Columbia and Maine due to the differences in oxygenated fuel inputs used for NMIM versus NONROAD.

As a first step, Pechan compiled fuel input data available from NMIM2005 by county and by month for all MANE-VU states for 2002. Pechan developed a spreadsheet that summarized the gasoline RVP, gasoline weight percent oxygen, and gasoline and diesel sulfur content proposed as inputs to the updated runs. Values consistent with State-supplied MOBILE6 inputs used for the development of 2002 MANE-VU highway vehicle inventories were presented for use where they differed from NMIM. Pechan requested that States confirm the use of these data for the NONROAD model runs, or provide alternative inputs.

The final county, monthly NMIM inputs provided or confirmed by the States for RVP, weight percent oxygen, and gasoline sulfur are presented in Appendix C, Table C-1. Pechan used NMIM's 2002 default value for nonroad diesel sulfur content. This value is 2,457 parts per million (ppm) for land-based equipment, and 2,767 ppm for recreational marine, for all MANE-VU counties.

Pechan also requested that States provide any local activity data in the format of updated NONROAD external data files. These include data files which specify activity parameters such as equipment populations, equipment annual hours of use, county allocation factors, and monthly allocation profiles.

Pechan updated the NMIM county database for 2002 to add in new gasoline profiles to reflect the monthly and county fuel input values provided by States. Pechan also updated the NMIM county database to cross reference the State-supplied NONROAD data files that replaced default

NONROAD2005 inputs. Pechan then ran NMIM/NONROAD2005 at the county and monthly level for 2002 and generated the results in NIF 3.0.

c. NONROAD2005 Model Runs

The majority of the model runs were performed using NMIM2005. NMIM and NONROAD have differences in the required format of the oxygenated fuel inputs. For NONROAD, this variable is required to be expressed as a composite weight percent oxygen that accounts for the market share and the percent oxygen of all contributing oxygenates. Since NMIM models HAP emissions, the volume percent and market share of each of four oxygenates must be entered as fuel inputs. These oxygenates include methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), ethanol (ETOH), and tertiary amyl methyl ether (TAME). In cases where only one known oxygenate is present, this is straightforward to reflect in NMIM, as weight percent can be easily converted to volume percent. However, two States (the District of Columbia and Maine) provided a composite weight percent value for more than one oxygenate, but could not provide the corresponding volume percent and market share for each oxygenate to use in NMIM. As such, Pechan used NONROAD2005 for both the District of Columbia and Maine so that their submitted values for weight percent oxygen could be used directly. The 2002 minimum, maximum, and average hourly temperatures included in NMIM2005 were used to calculate average monthly temperature inputs to NONROAD for both States.

Pechan developed monthly NONROAD option files and ran these files through NONROAD2005 to generate monthly emissions that were then summed to develop an annual 2002 inventory. Pechan performed additional calculations using NMIM emission factors and fuel consumption to calculate NH_3, since NONROAD does not calculate NH_3 emissions.

2. What Quality Assurance Steps Were Performed?

The final MANE-VU nonroad inventory was comprised of emission estimates that were either: 1) submitted by States for the June 2004 CERR submittal or as additional revisions after this date; 2) developed using NONROAD model inputs provided or approved by States; or 3) reported by EPA in the preliminary 2002 NEI. As such, the QA steps were tailored to each of these types of submittals. Note that a Quality Assurance Plan was prepared prior to initiating work on Version 1 (MANE-VU, 2003). This plan was applied during development of all three versions of the MANE-VU inventory.

a. Summary of QA checks for State emission submittals

Nonroad emission submittals were accepted as part of the June 2004 CERR submittals to EPA or as direct submittals to MANE-VU. Upon receipt of an emissions submittal, Pechan prepared spreadsheets providing a unique list of errors identified by running the EPA NIF 3.0 QA software tool on the nonroad source inventory (EPA, 2004a). Notes were provided to identify the NIF 3.0 tables in which the errors appeared, as well as clarification as to where an error occurred (e.g., for what SCC and pollutant). For many of the errors, Pechan provided a potential correction, and States indicated whether they agreed with the correction, or provided their own

instructions for correcting the error. These spreadsheets served to document each state's direction on how to correct errors and the state's representative authorizing the correction.

The list of general QA checks include the following:

- Duplicate records (i.e., only one record allowed for each unique county/SCC/ pollutant)
- Invalid record type
- Mandatory field is not populated
- Invalid field length
- Invalid data type (e.g., invalid SCCs or pollutants)
- "Out-of-range" emission values
- Referential integrity (i.e., the presence of widow or orphan records in the NIF 3.0 relational tables)

Note that EPA's NIF 3.0 QA software tool also checks for other specific QA issues by field not listed above. See EPA's User Guide, Appendix A for a listing of all potential errors that are checked by the program, and EPA's guidance for how they should be resolved.

Pechan also performed other general QA procedures outside of EPA's NIF 3.0 QA software tool, including pollutant augmentation, SCC reconciliation, and completeness and reasonableness checks.

Pechan performed pollutant augmentation in cases where the complete set of CAPs and NH_3 were not provided by a State. For example, several States did not provide PM25-PRI, but did provide PM10-PRI, so that PM25-PRI was estimated using EPA-published particle-size multipliers. Where multipliers were not available from EPA documentation, Pechan used available pollutant emission estimates reported by all other MANE-VU States to develop "emission ratios" for a given SCC. These "emission ratios" were then used to multiply available pollutant estimates to estimate values for the missing pollutants. Specific values used for a given State and SCC are cited in the "State-Specific Methods" section below.

In addition, SCC assignments were reviewed and reassigned after clarification from States as to what the specific SCC estimate represented. For example, a State may have reported all aircraft activity under one of the specific aircraft type SCCs (e.g., commercial or general aviation), when it should more accurately be reported under the general SCC 2275000000 (All Aircraft Types and Operations).

Finally, completeness checks were performed on the inventory to determine that emissions for nonroad categories known to operate in a State or county were being reported. Note that emissions may not be reported for all NONROAD SCCs for all counties in the MANE-VU RPO, and will depend on the geographic allocation methods used by the model, or specific allocation data provided by a State.

NONROAD model category estimates originally provided by States for the June 2004 submittal were replaced by emission estimates developed using NMIM/NONROAD 2005. As such, this

TSD will not document corrections made by Pechan to these original NONROAD model estimates, since they were replaced for Version 3.

b. Data input summary spreadsheets for State review

As mentioned above for NONROAD model categories, Pechan prepared the MANE-VU emission estimates using EPA's final NMIM/NONROAD2005 model. An important QA step in running NONROAD is to ensure that the inputs used for fuel specifications and temperatures for a given county and month in 2002 are representative. As such, Pechan compiled the RVP, percent oxygen, and gasoline sulfur inputs reported by NMIM2005 by county and month for States to review. If a State had previously submitted input data for the MANE-VU onroad inventory, these data were proposed in lieu of NMIM data. States either confirmed use of the default NMIM/onroad MANE-VU inputs, or provided alternate data in the specified format to replace the proposed inputs. Pechan updated the *gasoline* table in the NMIM county database to add in new gasoline profiles to reflect revised fuel input values provided by States. These profiles were then cross-referenced to the appropriate county and month in a separate table called *countyyearmonth*. Pechan performed QA checks of these NMIM county database tables for each State to ensure that the correct fuel data were input by county and by month as requested by the State.

c. QA of final mass emissions

After performing QA of the inputs, Pechan ran NMIM/NONROAD2005 at the county and monthly level for 2002 and generated the results in NIF 3.0. As a QA step, Pechan ran EPA's NIF 3.0 QA software tool on the NIF 3.0 files. Errors identified were resolved and checked to ensure they were corrected in the final files.

As part of final processing of the inventories, and to assist in tracking revisions and preparing emission summaries, Pechan added the following NIF plus fields to each table:

TblCE : State FIPS, County FIPS, Data Source, Revision Date
TblEM : State FIPS, County FIPS, Data Source, Revision Date, CAP/HAP, Year, Emission Ton Value, Emission Type Period
TblEP : State FIPS, County FIPS, Data Source, Revision Date
TblPE : State FIPS, County FIPS, Data Source, Revision Date
TblTR : State FIPS, County FIPS, Revision Date

Data source codes are included to document the origin of the emissions data, which assists in tracking and quality-assuring revisions made to the emission estimates. Table IV-3 provides a listing of the data source codes included in the MANE-VU nonroad inventories, as well as a definition of each code. State FIPS and County FIPS are separated out to assist in developing area-specific emission summaries, and the Emission Ton Value places all emissions on the same basis. The Emission Type Period describes the temporal basis of the estimates (in this case, they are all annual). Finally, the Revision Date tracks when record-specific changes are made.

Table IV-3. Data Source Code Descriptions

Data Source Code	Description
E-02-F	E = EPA-generated data; -02 = year 2002; -F = emissions are carried forward for inclusion in the 2002 base year
E-02-X	E = EPA-generated data; -02 = year 2002; -F = emissions are not grown or carried forward
P-02-X	P = RPO-generated data; -02 = year 2002; -X = emissions are not grown or carried forward
S-02-X	S = State data; -02 = year 2002 data; -X = emissions are not grown or carried forward

3. Version 3 Emission Summaries

Table IV-4 presents a summary of the annual 2002 nonroad sector pollutant emissions for each MANE-VU State, as well as a regional total. These emissions include SCCs for all NONROAD model engines, as well as aircraft, commercial marine vessel, and locomotive categories, where applicable, for each State. Table IV-5 presents the emission results for NONROAD model equipment only, while Table IV-6 provides emission estimates for aircraft, commercial marine vessel, and locomotive categories separately.

Table IV-4. Annual 2002 Nonroad Sector Emissions by MANE-VU State (Tons/Year)

State	CO	NH_3	NO_x	PM10-PRI	PM25-PRI	SO_2	VOC
Connecticut	276,773.0	16.6	25,460.2	1,952.1	1,793.9	2,087.4	33,880.2
Delaware	68,782.0	5.2	16,226.5	1,021.4	925.6	3,983.3	8,010.1
District of Columbia	18,844.7	2.4	3,571.3	310.2	298.7	375.4	2,072.5
Maine	153,423.6	11.4	9,820.4	1,436.8	1,329.4	916.8	31,144.1
Maryland	437,400.3	28.2	37,472.2	4,936.0	4,357.1	7,941.6	56,330.4
Massachusetts	461,514.3	28.2	42,768.5	3,531.2	3,226.4	3,791.2	56,748.5
New Hampshire	130,782.2	9.1	9,912.1	1,057.8	965.4	891.0	22,376.5
New Jersey	704,396.4	43.0	63,479.0	5,495.1	4,997.2	15,686.0	83,918.9
New York	1,233,968.3	79.3	109,878.3	9,605.3	8,820.9	12,919.7	157,611.7
Pennsylvania	931,978.0	55.0	103,824.2	9,737.9	8,440.1	7,915.0	102,331.0
Rhode Island	73,012.7	4.1	5,001.5	500.2	443.1	377.2	7,779.7
Vermont	62,248.1	4.5	4,217.1	529.9	485.8	372.1	10,547.6
Total MANE-VU	**4,553,123.5**	**286.9**	**431,631.3**	**40,113.9**	**36,083.6**	**57,256.6**	**572,751.3**

Table IV-5. Annual 2002 NONROAD2005 Model Emissions by MANE-VU State (Tons/Year)

State	CO	NH_3	NO_x	PM10-PRI	PM25-PRI	SO_2	VOC
Connecticut	274,387.6	16.6	17,897.0	1,712.9	1,577.6	1,376.6	33,519.0
Delaware	65,954.1	4.9	5,798.3	570.4	525.1	513.0	7,530.5
District of Columbia	18,774.9	2.4	3,066.4	298.4	287.8	341.3	2,052.9
Maine	148,555.3	11.4	8,228.9	1,204.2	1,135.1	771.8	30,741.0
Maryland	424,776.8	28.2	27,789.1	3,118.7	2,870.4	2,569.2	53,035.0
Massachusetts	448,398.7	28.2	30,046.7	2,887.2	2,658.8	2,428.1	54,835.8
New Hampshire	128,571.5	9.1	8,149.5	946.8	871.7	672.7	22,237.8
New Jersey	692,547.9	43.0	43,515.2	4,285.4	3,950.5	3,524.9	81,900.4
New York	1,219,308.7	79.3	78,648.3	8,338.9	7,677.1	6,966.3	155,475.1
Pennsylvania	903,167.7	55.0	62,265.2	6,281.5	5,784.3	5,292.4	99,240.9
Rhode Island	71,573.1	4.1	4,563.9	402.8	371.1	335.5	7,698.7
Vermont	61,732.1	4.5	4,169.9	517.6	476.6	367.6	10,520.4
Total MANE-VU	**4,457,748.6**	**286.6**	**294,138.2**	**30,564.8**	**28,186.1**	**25,159.4**	**558,787.4**

Table IV-6. Annual 2002 Aircraft, Commercial Marine, and Locomotive Emissions by MANE-VU State (Tons/Year)

State	CO	NH_3	NO_x	PM10-PRI	PM25-PRI	SO_2	VOC
Connecticut	2,385.4	0.0	7,563.2	239.2	216.4	710.8	361.2
Delaware	2,827.9	0.3	10,428.2	451.1	400.5	3,470.3	479.6
District of Columbia	69.7	0.0	505.0	11.8	10.9	34.1	19.7
Maine	4,868.3	0.0	1,591.5	232.6	194.3	145.0	403.1
Maryland	12,623.5	0.0	9,683.2	1,817.3	1,486.7	5,372.3	3,295.4
Massachusetts	13,115.6	0.0	12,721.7	644.0	567.6	1,363.1	1,912.7
New Hampshire	2,210.7	0.0	1,762.5	111.0	93.7	218.3	138.6
New Jersey	11,848.5	0.0	19,963.9	1,209.7	1,046.7	12,161.1	2,018.6
New York	14,659.6	0.0	31,230.0	1,266.4	1,143.8	5,953.4	2,136.6
Pennsylvania	28,810.2	0.0	41,559.0	3,456.4	2,655.8	2,622.7	3,090.2
Rhode Island	1,439.6	0.0	437.6	97.4	72.1	41.7	81.0
Vermont	516.0	0.0	47.3	12.2	9.2	4.5	27.2
Total MANE-VU	**95,374.9**	**0.3**	**137,493.1**	**9,549.1**	**7,897.4**	**32,097.3**	**13,963.9**

B. State-Specific Methods

The following sections describe the methods used and QA issues addressed for each MANE-VU State in developing Version 3.0 of MANE-VU's nonroad sector inventory.

1. Connecticut

a. What Data Sources Were Used?

Pechan ran EPA's NMIM2005 to generate NONROAD model SCC emission estimates. Pechan incorporated Connecticut-supplied data for gasoline sulfur content and RVP into the NMIM database. Pechan used NMIM defaults for diesel sulfur content and for weight percent oxygenate values. The final input data by county and by month are summarized in Table B-1.

Aircraft and commercial marine vessel emissions are based on the preliminary 2002 nonroad NEI. In March 2006, Connecticut provided county-level emission estimates for VOC, NO_x, and CO for all line-haul and switchyard locomotive SCCs.

b. What QA Issues were Identified and Addressed?

For commercial aircraft (SCC 2275020000), PM10-PRI and PM25-PRI were not reported in the EPA's NEI. For completeness, Pechan estimated PM10-PRI emissions by applying an average PM10-PRI/NO_x emission ratio of 0.058 to available NO_x emissions. Commercial aircraft PM25-PRI emissions were estimated by multiplying PM10-PRI emissions by a particle size multiplier of 0.976 (ERG, 2004).

c. What Issues Need to be Addressed in Future Versions?

Because EPA's NEI does not include locomotive category emission estimates for Connecticut, and since Connecticut only provided emission estimates for VOC, NO_x, and CO, estimates are still missing for PM10-PRI, PM25-PRI, and SO_2.

2. Delaware

a. What Data Sources Were Used?

Pechan used NMIM2005 to generate NONROAD model SCC emission estimates. Delaware approved of the fuel inputs used in NMIM2005. The final fuel input data by county and by month are summarized in Table B-1. Delaware provided updated files listed in Table IV-7 to replace the default files used in NMIM. These included county allocation files for five nonroad categories, and a revised equipment population file with updated populations for specific SCCs.

Table IV-7. Delaware NONROAD External Data Files

County NR File Name	File Type
10000air.alo	County allocation for airport GSE
10000gc.alo	County allocation for golf carts
10000hou.alo	County allocation for lawn & garden
10000log.alo	County allocation for logging
10000rvp.alo	County allocation for land-based recreational
10000.pop	Equipment population

Pechan used Delaware's June 2004 CERR submittal as the basis for aircraft, locomotive and commercial marine vessel category estimates in the 2002 MANE-VU inventory.

i. What Revisions Were Requested by State?

In September 2004, Delaware provided corrections to the general aviation emissions (SCC 227505000) for all pollutants for Kent County to add in general aviation activity at Dover Air Force Base.

b. What QA Issues were Identified and Addressed?

Pechan performed QA of the file, and revised the file to address QA issues as approved by Delaware. Commercial aircraft (SCC 2275020000) included emission estimates for all pollutants except PM25-PRI. Pechan calculated commercial aircraft PM25-PRI emissions using the assumption that 97.6% of PM10-PRI is PM25-PRI (ERG, 2004).

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

3. District of Columbia

a. What Data Sources Were Used?

Pechan developed NONROAD Model SCC emissions for District of Columbia using NONROAD2005. NONROAD2005 was used directly instead of NMIM2005 to incorporate State-supplied weight percent oxygen data. The District of Columbia also requested changes to the default NMIM RVP and gasoline values for some months. The final fuel input data by county and by month are summarized in Table B-1.

The 2002 minimum, maximum, and average hourly temperatures included in NMIM were used to calculate average monthly temperature inputs to NONROAD. Pechan developed monthly NONROAD2005 option files for the District of Columbia. Pechan ran the option files through NONROAD2005 to generate monthly emissions that were then summed to develop an annual 2002 inventory. Pechan performed additional calculations using NMIM emission factors and NONROAD2005 fuel consumption to calculate NH_3, since NONROAD does not calculate NH_3 emissions. NMIM reports NH_3 emission factors of 116 grams NH_3 per gallon gasoline for gasoline engines, and 83 grams NH_3 per gallon fuel for diesel engines.

The District of Columbia provided locomotive emissions for their nonroad sector June 2004 CERR submittal.

b. What QA Issues were Identified and Addressed?

Pechan performed QA of the file, and revised the file to address QA issues as approved by the District of Columbia. PM emissions in the inventory were not identified as either PM_{10} or $PM_{2.5}$, nor were the emissions identified as primary or filterable. The District of Columbia authorized Pechan to change PM to PM10-PRI. Locomotive PM25-PRI emissions were estimated using the assumption that 90 percent of PM_{10} is $PM_{2.5}$ (EPA, 2003b). Hydrocarbon (HC) pollutant emissions were also removed from the inventory, as this is not a valid pollutant code in NIF3.0.

Pechan added commercial marine vessel emissions from the preliminary 2002 Nonroad NEI. There are no aircraft emission estimates in the NEI for the District of Columbia, since there are not airports located in the District of Columbia.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

4. Maine

a. What Data Sources Were Used?

Pechan developed NONROAD model SCC emissions using NONROAD2005. For Maine, weight percent oxygen values were submitted based on actual fuel survey results by county and by month, but Maine had not tracked the corresponding oxygenate volume percent and market share. As such, Pechan used NONROAD2005 so that Maine's values for weight percent oxygen could be reflected. Maine also provided revisions to the RVP and gasoline sulfur values reported in NMIM2005. Pechan developed NONROAD2005 monthly option files for two county groups in Maine that shared values for all three fuel inputs (see Appendix C, Table C-1). The 2002 minimum, maximum, and average hourly temperatures included in NMIM were used to calculate average monthly temperature inputs to NONROAD. Pechan ran the option files through NONROAD2005 to generate monthly emissions that were then summed to develop an annual 2002 inventory. Pechan performed additional calculations using NMIM emission factors and fuel consumption to calculate NH_3, since NONROAD does not calculate NH_3 emissions. NMIM reports NH_3 emission factors of 116 grams NH_3 per gallon gasoline for gasoline engines, and 83 grams NH_3 per gallon fuel for diesel engines.

i. What Revisions Were Requested by State?

In October 2004, Maine provided aircraft, commercial marine vessel, and locomotive SCC emissions to be added to their inventory. Commercial marine emissions submitted by Maine only represented in-port emissions. Diesel and residual commercial marine underway emissions (SCCs 2280002200 and 2280003200) were based on EPA's 2002 preliminary NEI.

b. What QA Issues were Identified and Addressed?

PM25-PRI estimates were missing from all aircraft SCC records provided by Maine. Pechan estimated general aviation, military aircraft, and air taxi PM25-PRI emissions by multiplying PM10-PRI emissions by a particle size multiplier of 0.69 (EPA, 2003b). Commercial aircraft PM25-PRI emissions were estimated by multiplying PM10-PRI emissions by a particle size multiplier of 0.976 (ERG, 2004). In-port commercial marine emissions (SCC 2280002100) were missing estimates for PM10-PRI and PM25-PRI. Pechan estimated PM10-PRI emissions by applying a PM10-PRI/NO_x emission ratio of 0.042 to available NO_x emissions. PM25-PRI emissions were estimated by multiplying PM10-PRI emissions by a particle size multiplier of 0.92 (EPA, 2003b).

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

5. Maryland

a. What Data Sources Were Used?

Pechan used NMIM2005 to prepare NONROAD model SCC emission estimates. Maryland reviewed the default NMIM inputs and provided revisions to the input values for RVP and weight percent oxygen for all months. Maryland requested that a value of 2.1 percent oxygen be used for all counties and months. This weight percent value was then converted to a volume percent of 11.8 percent for use in NMIM, assuming MTBE was the only oxygenate. In addition, gasoline sulfur content revisions were incorporated into NMIM for select counties for the months of April through September. The final fuel input data by county and by month are summarized in Table B-1.

Maryland also provided updated files listed in Table IV-8 to replace the default files used in NMIM. These included county allocation files for several nonroad categories.

Table IV-8. Maryland NONROAD External Data Files

County NR File Name	File Type
24000pop.alo	County allocation for several nonroad categories (population)
24000con.alo	County allocation for construction
24000hou.alo	County allocation for lawn & garden

Pechan used Maryland's nonroad sector CERR submittal as the basis for the MANE-VU inventory for the aircraft, locomotive and commercial marine vessel categories.

i. What Revisions Were Requested by State?

In September 2004, Maryland provided revised aircraft and commercial marine vessel emission estimates. Pechan replaced the aircraft and commercial marine vessel emissions from their CERR submittal with the revised emissions.

b. What QA Issues were Identified and Addressed?

Pechan performed QA of the file, and revised the file to address QA issues as approved by Maryland. Maryland did not provide PM25-PRI aircraft emissions in their inventory. Pechan estimated general aviation, military aircraft, and air taxi PM25-PRI emissions by multiplying PM10-PRI emissions by a particle size multiplier of 0.69 (EPA, 2003b). Commercial aircraft PM25-PRI emissions were estimated by multiplying PM10-PRI emissions by a particle size multiplier of 0.976 (ERG, 2004).

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

6. Massachusetts

a. What Data Sources Were Used?

Pechan used NMIM2005 to generate NONROAD model SCC emission estimates. Massachusetts reviewed the NMIM inputs and approved of the fuel input values for RVP and gasoline sulfur content. NMIM2005 reported a weight percent oxygen of 2.1 percent for all months for all counties in Massachusetts, and the State requested a value of 1.5 percent be used for all counties from October through April. This weight percent value was then converted to a volume percent of 8.4 percent for use in NMIM, given that MTBE was the only oxygenate. Final fuel input data by county and by month are presented in Table B-1.

Massachusetts provided annual emissions for aircraft, locomotive and commercial marine vessel categories for their nonroad sector CERR submittal. These inventories included all CAP.

i. What Revisions Were Requested by State?

Massachusetts requested that Pechan incorporate revisions supplied for annual emissions for in-port diesel commercial marine (SCC 2280002010) for Dukes County (25007).

b. What QA Issues were Identified and Addressed?

Pechan changed the aircraft SCC "2275050000" to "2275000000," since Massachusetts verified that this emission record represents all aircraft types, not just general aviation.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

7. New Hampshire

a. What Data Sources Were Used?

Pechan used NMIM2005 to generate NONROAD model SCC emission estimates. New Hampshire reviewed and approved of the fuel inputs used in NMIM2005. See Table B-1 for a summary of the final fuel input data by county and month.

Pechan used New Hampshire's nonroad sector CERR submittal as the basis for the MANE-VU aircraft and locomotive inventory. Pechan added commercial marine vessel emissions from the preliminary 2002 Nonroad NEI.

b. What QA Issues were Identified and Addressed?

Pechan performed QA of the file, and revised the file to address QA issues as approved by New Hampshire. New Hampshire did not provide PM_{10} and $PM_{2.5}$ aircraft emissions in their inventory. New Hampshire authorized Pechan to develop aircraft PM_{10} emissions for all aircraft types by applying an average PM10/NO_x emission ratio to the aircraft NO_x emissions in their inventory. The PM_{10}/NO_x ratios used were 3.819 for military and air taxi, 3.642 for general aviation, and 0.058 for commercial aircraft. Pechan estimated general aviation, military aircraft, and air taxi PM25-PRI emissions by multiplying PM10-PRI emissions by a particle size multiplier of 0.69 (EPA, 2003b). For commercial aircraft, Pechan estimated PM25-PRI emissions using the assumption that 97.6% of PM_{10} is $PM_{2.5}$ (ERG, 2004).

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

8. New Jersey

a. What Data Sources Were Used?

Pechan used NMIM2005 to generate NONROAD model SCC emission estimates. New Jersey approved of the default fuel inputs used in NMIM2005. See Table B-1 for a summary of the final fuel input data by county and month. New Jersey provided an updated data input file

containing revised equipment populations (34000.pop) for specific SCCs for the NMIM model runs.

Pechan used New Jersey's nonroad sector CERR submittal as the basis for the aircraft, locomotive and commercial marine vessel categories. These inventories included all CAPs.

b. What QA Issues were Identified and Addressed?

Pechan performed QA of the file, and revised the file to address QA issues as approved by New Jersey. The only QA issue identified was the inclusion of carbon dioxide (CO_2) in the inventory, which is not a valid pollutant code in NIF3.0, so these records were removed.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

9. New York

a. What Data Sources Were Used?

Pechan used NMIM2005 to generate NONROAD model SCC emission estimates. New York reviewed the default NMIM inputs and provided revisions to the input values for RVP and gasoline sulfur for all months. New York also requested revisions to weight percent oxygen values for all counties and months. These weight percent values were then converted to a volume percent for use in NMIM, based on MTBE as the only oxygenate for all counties, with the exception of four counties. These included Cattaraugus, Chautauqua, Erie, and Niagara counties, which use ETOH as the oxygenate. The final fuel input data by county and by month are summarized in Table B-1.

For the aircraft and locomotive categories, Pechan used emissions reported in the preliminary 2002 Nonroad NEI.

i. What Revisions Were Requested by State?

In October 2004, New York provided commercial marine vessel emissions to be added to their inventory. New York did not provide PM-2.5 commercial marine vessel emissions for some counties in their inventory. Pechan estimated the commercial marine vessel PM25-PRI emissions from PM10-PRI using the assumption that 92% of PM_{10} is $PM_{2.5}$ (EPA, 2003b).

b. What QA Issues were Identified and Addressed?

Commercial aircraft (SCC 2275020000) emissions for PM10-PRI and PM25-PRI were not reported in the EPA's preliminary 2002 NEI. Pechan estimated PM10-PRI emissions by applying a PM10-PRI/NO_x emission ratio of 0.058 to available NO_x emissions for this SCC. Commercial aircraft PM25-PRI emissions were estimated by multiplying PM10-PRI emissions by a particle size multiplier of 0.976 (ERG, 2004).

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

10. Pennsylvania

a. What Data Sources Were Used?

Pechan used NMIM2005 to generate NONROAD model SCC emission estimates. Pennsylvania approved of the fuel inputs provided, which were based on the onroad MOBILE6 inputs. Since these differed from the values in NMIM2005, Pechan updated the NMIM profiles accordingly. See Table B-1 for a summary of the final fuel input data by county and month. Pennsylvania provided one county allocation file for the lawn and garden category (42000hou.alo) to replace the default file used in NMIM.

Pennsylvania submitted an aircraft, locomotive, and commercial marine vessel emissions inventory to MANE-VU after the CERR submittal date.

i. What Revisions Were Requested by State?

In August 2005, Pennsylvania provided Pechan with county-level updates to SCC 2285002006 (Line Haul Locomotives: Class I Operations) emissions for all pollutants. Pechan updated all emission records for this SCC in Pennsylvania's inventory.

b. What QA Issues were Identified and Addressed?

Pennsylvania authorized Pechan to remove the CO_2 emission records from their inventory. In addition, the following data augmentation was performed to add missing SCCs and pollutants. Pennsylvania did not provide commercial aircraft emissions in their inventory. Pechan added commercial aircraft emissions from the 2002 preliminary NEI to Pennsylvania's inventory. Pennsylvania did not provide PM10-PRI and PM25-PRI aircraft emissions in their inventory. Pechan developed aircraft PM_{10} emissions for all aircraft types by applying an average PM_{10}/ NO_x emission ratio to Pennsylvania's available aircraft NO_x emissions. The PM_{10}/NO_x ratios used were 3.819 for military and air taxi, 3.642 for general aviation, and 0.058 for commercial aircraft. Pechan estimated general aviation, military aircraft, and air taxi PM25-PRI emissions by multiplying PM10-PRI emissions by a particle size multiplier of 0.69 (EPA, 2003b). For commercial aircraft, Pechan estimated PM25-PRI emissions using the assumption that 97.6% of PM_{10} is $PM_{2.5}$ (ERG, 2004).

Pennsylvania also did not provide SO_2 general aviation and air taxi emissions in the inventory. Pechan estimated the SO_2 emissions by applying a SO_2/NO_x emission ratio to the general aviation and air taxi NO_x emissions, using ratios of 0.154 and 0.095, respectively.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

11. Rhode Island

a. What Data Sources Were Used?

Pechan used NMIM2005 to generate NONROAD model SCC emission estimates. Rhode Island approved of the fuel inputs used in NMIM2005. See Table B-1 for a summary of the final fuel input data by county and month. Rhode Island provided a revised equipment population file (44000.pop) with updated populations for specific SCCs to replace the default file used in NMIM.

Rhode Island provided emissions for aircraft, locomotive and commercial marine vessel categories for their nonroad sector CERR submittal.

i. What Revisions Were Requested by State?

Rhode Island provided updates in September 2004 to their county-level railroad equipment emissions. The new emissions fall under SCC 2285002005 and replace all line haul locomotive emissions provided in their CERR submittal. Emission estimates for yard locomotives were also provided (SCC 2285002010).

b. What QA Issues were Identified and Addressed?

Pechan performed QA of the file, and revised the file to address QA issues as approved by Rhode Island.

PM_{10} was not identified as either primary or filterable. Rhode Island authorized Pechan to change it to PM10-PRI. To avoid double counting, Pechan removed the following SCCs from Rhode Island's inventory: 2275000000, 2280002000, 2280002020, 2280003000, and 2280003020. These emissions are accounted for under more specific SCCs for aircraft, and more aggregate SCCs for commercial marine.

Rhode Island did not provide PM10-PRI and PM25-PRI aircraft emissions in their inventory. Pechan developed aircraft PM_{10} emissions for all aircraft types by applying an average PM_{10}/NO_x emission ratio to the aircraft NO_x emissions in their inventory. The PM_{10}/NO_x ratios used were 3.819 for military and air taxi, 3.642 for general aviation, and 0.058 for commercial aircraft. Pechan estimated general aviation, military aircraft, and air taxi PM25-PRI emissions by multiplying PM10-PRI emissions by a particle size multiplier of 0.69 (EPA, 2003b). For

commercial aircraft, Pechan estimated PM25-PRI emissions using the assumption that 97.6% of PM_{10} is $PM_{2.5}$ (ERG, 2004).

Rhode Island did not provide yard locomotive, and commercial marine vessel PM25-PRI emissions in their inventory. Pechan estimated the yard locomotive PM25-PRI emissions from PM10-PRI using the assumption that 90% of PM_{10} is PM25 (EPA, 2003b). Pechan estimated the commercial marine vessel PM25-PRI emissions from PM10-PRI using the assumption that 92% of PM_{10} is $PM_{2.5}$ (EPA, 2003b).

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

12. Vermont

a. What Data Sources Were Used?

Pechan developed NONROAD model SCC emissions for Vermont using NMIM2005. Vermont approved of the default fuel input values used in NMIM2005 for weight percent oxygen, but requested that the RVP and gasoline sulfur values reflect values used for onroad mobile source emissions.

Pechan added aircraft emissions for Vermont from the preliminary 2002 Nonroad NEI.

b. What QA Issues were Identified and Addressed?

Commercial aircraft (SCC 2275020000) emissions for PM10-PRI and PM25-PRI were not reported in the EPA's preliminary 2002 NEI. Pechan estimated PM10-PRI emissions by applying an average PM10-PRI/NO_x emission ratio of 0.058 to available NO_x emissions. Commercial aircraft PM25-PRI emissions were estimated by multiplying PM10-PRI emissions by a particle size multiplier of 0.976 (ERG, 2004).

c. What Issues Need to be Addressed in Future Versions?

Note that there are no locomotive or commercial marine vessel emissions in the NEI for Vermont. Where activity for any of these SCCs occurs in Vermont, these categories are not represented in the State's inventory.

CHAPTER V – ONROAD SOURCES

A. General Methods for All States

This section provides an overview of the data sources and QA steps used in preparing the 2002 onroad sector inventory for the MANE-VU States and in preparing the corresponding modeling inputs for the MANE-VU Version 3 modeling inventory. The onroad sector is comprised of all motorized vehicles that travel on the public highways including passenger cars, light-duty trucks, minivans, sport utility vehicles, heavy-duty trucks, and buses. It should be noted that, unlike the other emission sectors, the modeling inventory inputs for the onroad sector do not include any emissions data. The primary modeling inputs for the onroad sector instead are the activity inputs (vehicle miles traveled (VMT)) and SMOKE-formatted MOBILE6 input files. The SMOKE model then generates full MOBILE6 input files using the MOBILE6 inputs, speed inputs, and meteorological inputs for the episode(s) to be modeled, runs the MOBILE6 emission factor model to calculate the appropriate emission factors, and calculates emissions using the supplied VMT and additional temporal allocation factors for the VMT.

1. Data Sources

a. Source of default model data

The MANE-VU 2002 onroad emissions inventory was compiled from data supplied by the MANE-VU State agencies in the form of onroad emissions input data or emissions inventories either directly to MANE-VU or to EPA through their CERR submittal. States provided information in one or more of the following ways: (1) an onroad emission inventory submittal to EPA, (2) MOBILE6 inputs and VMT data in NMIM format to EPA, (3) portions of MOBILE6 inputs or full MOBILE6 input files and supporting files plus VMT to EPA, or (4) portions of MOBILE6 inputs or full MOBILE6 input files and supporting files plus VMT to MANE-VU. Different procedures were followed in developing the MANE-VU 2002 onroad emission inventory depending upon how the data were submitted.

As discussed above, the primary data needed in preparing the inputs for the onroad modeling files were the VMT data and MOBILE6 input files. All of the MANE-VU States provided VMT data, which were incorporated in the SMOKE modeling. The level of detail of the supplied VMT data and any additional processing of the VMT data are discussed individually by State, below, in Section B: State-Specific Methods. Therefore, no default data were needed for the VMT inputs. Default model inputs for the SMOKE MOBILE6 input files were needed in some cases. The source of default information to be included in these input files was the NMIM national county database, as this was also the default source of data for EPA in preparing the 2002 NEI. This database includes information on monthly fuel data by county, control program information by county, such as inspection and maintenance (I/M) program inputs, and other fleet information, such as vehicle registration distributions, that may have been supplied by the States. Additionally, vehicle speed information is needed in the SMOKE modeling files. Some States supplied this information. In cases where no speed data were supplied, the default speeds used by EPA in calculating the NEI were used. These speeds differ by road class group and by vehicle class group.

For the SMOKE modeling, Pechan did not provide any ambient data such as temperature or humidity. Instead, the SMOKE model needs meteorological input data specific to the episode(s) being modeled. Thus, although the SMOKE MOBILE6 input files do include temperature data and in some cases humidity data, these inputs will be replaced by the SMOKE model with the appropriate episode-specific data.

b. Model inputs and revisions provided by States

The model inputs and revisions provided by the States are discussed in detail in Section B, below. These inputs include VMT data, VMT temporal data, vehicle speeds, I/M program inputs, registrations distributions, and other MOBILE6 input data.

c. Model inputs provided vs. model inputs used

Pechan prepared the following model input files for Version 3 of the MANE-VU modeling inventory:

- MANEVU_2002_mbinv_02022006.txt—contains VMT and speeds by county and SCC;
- MANEVU_2002_mtpro_02022006.txt—contains VMT temporal profiles;
- MANEVU_2002_mtref_02022006.txt—contains cross references between temporal profiles and county/SCC;
- MANEVU_2002_vmtmix_02022006.txt—contains VMT vehicle mix fractions;
- MANEVU_2002_mcref_02022006.txt—contains cross reference between MANE-VU counties and the SMOKE MOBILE6 input files;
- MANEVU_2002_mvref_02022006.txt—contains general county-level information for SMOKE;
- MANEVU_2002_spdpro.txt—contains hourly speed profiles (SPDPRO);
- MANEVU_2002_spdref.txt—contains cross references between speed profiles and MANE-VU county/SCC;
- MANEVU_2002_mcodes.txt—contains information on SCCs used in MBINV file;
- MANEVU_SMOKE_M6Inputs_MA_NJ_02022006.zip—contains monthly SMOKE-formatted MOBILE6 input files for Massachusetts and New Jersey, updated for Version 3;
- MANEVU_2002_SMOKE_M6_InputFiles032004.zip—contains monthly SMOKE-formatted MOBILE6 input files for all MANE-VU States. Files for Massachusetts and New Jersey from this zip file should be replaced by the Version 3 files dated 02/02/2006.
- MANEVU_2002_SMOKE_M6_ExternalFiles.zip—contains external data files called by the SMOKE MOBILE6 input files.

2. What Quality Assurance Steps were Performed?

This section provides a brief summary of the QA steps and processes that were performed in the development of the onroad sector modeling inputs for MANE-VU. The initial QA procedures were performed on the emissions and input data used to calculate the MANE-VU 2002 onroad

emission inventory. Some of these QA procedures are also relevant here to the modeling inventory as many of the inputs are either the same or start with common information.

For States submitting onroad emission inventories to EPA, Pechan performed QA checks on the State-provided emission inventory data to ensure completeness, referential integrity, and correct formatting of the data. Where necessary as a result of these QA checks, and with the approval of the affected State, Pechan revised the inventories to meet the necessary inventory standards. For the modeling inventory, the VMT checks included in these QA checks are relevant. Note that a Quality Assurance Plan was prepared prior to initiating work on Version 1 (MANE-VU, 2003). This plan was applied during development of all three versions of the MANE-VU inventory.

a. Data input summary spreadsheets for State review

In reviewing the data submitted for both the annual onroad inventory and the onroad modeling files, Pechan prepared a State QA report for each State. These reports were in the form of Excel spreadsheets. In each of the State QA reports, a page was included that summarized the modeling inputs. This included MOBILE6 input parameters, such as I/M data, registration data, and fuel data. Columns were included indicating the data file name, data coverage (e.g., statewide or for specific counties), data source, any comments regarding the data, an indication of whether any guidance was requested from the State agency before proceeding, and columns for State agency approval of the listed inputs. These reports were provided to each State agency and the State could either approve the inputs summarized or provide an alternate data source or calculation method. For States that had submitted emission inventories in NIF format, results of the NIF QA checks were also included in these State QA reports for the states to review and approve and provide alternate data or methods. This table also include information on the VMT data source and any proposed methodologies needed for processing the VMT.

b. Responses from State Agencies

The appropriate State agency staff reviewed the State QA reports and provided direction for correcting QA issues either in the QA Summary Report Excel file or via e-mail. The modeling inputs were then revised to incorporate responses from the agencies.

3. Version 3 Emission Summaries

Table V-1 presents a summary of the annual 2002 Version 3 MANE-VU onroad sector pollutant emissions for each MANE-VU State, as well as a regional total. Differences between these Version 3 annual emission totals and the Version 2 totals documented in the January 2005 MANE-VU mobile sources inventory report are the result of updated data provided by New Jersey and Massachusetts. Emissions for the remaining states have not changed. It should be noted that these emission results are from the annual inventory modeling. These will differ from the results obtained by the SMOKE onroad modeling. Additionally, the emissions in this table do not reflect VMT updates from Vermont that were provided after the Version 2 MANE-VU annual inventory had been calculated, but were included in the SMOKE Version 2 and Version 3 modeling inputs.

Table V-1. Annual 2002 Onroad Sector Emissions by MANE-VU State (Tons/Year)

State	VOC	NO_x	CO	SO_2	PM10-PRI	PM25-PRI	NH_3
Connecticut	31,755.3	68,816.2	562,124.0	1,666.9	1,580.0	1,041.6	3,293.9
Delaware	10,563.8	21,340.5	160,760.4	583.9	581.1	414.9	902.8
District of Columbia	4,895.3	8,902.0	66,017.6	271.1	222.0	153.0	397.8
Maine	23,037.4	54,686.8	410,957.8	1,803.9	1,239.1	934.4	1,467.5
Maryland	61,846.7	122,210.0	1,000,762.8	4,057.6	3,168.3	2,200.4	5,594.3
Massachusetts	57,185.5	143,367.6	1,039,100.1	4,398.8	3,407.5	2,409.9	5,499.1
New Hampshire	16,762.3	33,283.0	306,792.5	776.9	814.3	561.8	1,447.0
New Jersey	89,752.9	152,076.1	1,273,513.1	3,648.6	3,725.3	2,469.0	7,382.0
New York	287,845.2	319,732.5	3,711,149.6	10,639.5	8,457.5	5,897.7	14,680.9
Pennsylvania	176,090.3	346,471.5	2,784,196.5	10,924.1	7,351.5	5,331.2	10,532.3
Rhode Island	12,537.8	16,677.2	186,196.8	425.3	345.1	210.5	852.6
Vermont	17,287.8	20,669.9	248,247.6	893.8	669.6	482.8	934.1
Total MANE-VU	**789,560.3**	**1,308,233.3**	**11,749,818.8**	**40,090.5**	**31,561.3**	**22,107.2**	**52,984.3**

B. State-Specific Methods

The following sections describe what modeling inputs were used for each State and how these inputs were developed.

1. Connecticut

a. What Data Sources Were Used?

Table V-2 summarizes the onroad SMOKE input files that were prepared containing information for the State of Connecticut. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

The VMT inputs provided by Connecticut were in the form of three sets of data. This included a file with VMT by county and four road types (Expressway, Arterial/Collector, Local, and Ramp), a set of Statewide VMT mixes at the 16 vehicle type-level for each of the four Connecticut road types, and a Statewide hourly VMT distribution file. Additional data provided by Connecticut showing the correspondence between the four Connecticut road types and the 12 Highway Performance Monitoring System (HPMS) road types were used to first distribute the county VMT to the 12 road types. Average daily miles were converted to annual miles by multiplying the average daily miles by 365. Pechan then developed a simple MOBILE6 input file that used the Connecticut registration distribution and with a separate scenario for each of the VMT mixes provided at the 16 vehicle type level. Pechan used the resulting MOBILE6 output file to extract the 28 vehicle type VMT mix corresponding to each of the four Connecticut road types. The VMT data by county and 12 road types were then multiplied by the 28 vehicle type VMT fractions to obtain a VMT file at the 28 vehicle type level and 12 road type level by county (for use in calculating the annual emission inventory). VMT from these 28 vehicle types were

then aggregated to the 12 vehicle types needed for the SMOKE MBINV input file. The VMT mix fractions by vehicle type for each county and road type were also calculated for inclusion in the SMOKE VMTMIX file.

Table V-2. Connecticut Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	CT
Speeds	MANEVU_2002_mbinv_02022006.txt	Road type/3 vehicle groups	Default NEI
Speed profiles	MANEVU_2002_spdpro.txt and MANEVU_2002_spdref.txt	County/hour/road type	CT
VMT mix	MANEVU_2002_vmtmix_02022006.txt	Statewide/road type	CT
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

For Connecticut, speed information is contained in both the MBINV SMOKE file as well as in the SMOKE speed profile (SPDPRO) and speed cross reference file (SPDREF) files. The speed information contained in the MBINV file is simply the default NEI speed data. The actual speed data to be used in the modeling inventory for Connecticut are contained in the SMOKE SPDPRO and SPDREF. The speed data from these two files should overwrite the default speed information contained in the MBINV file during the SMOKE modeling. The data used to develop the speed profiles were provided by Connecticut in the form of NMIM speed input files with the fraction of VMT occurring within each of 14 speed bins. These speed distributions differ by hour of day and by freeways versus arterials and collectors. Separate speed distribution files were provided by Connecticut for each county. Pechan then converted these speed data into the speed profile format needed for SMOKE—hourly average speeds by county and the two specified road types.

Connecticut provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- Statewide registration distribution;
- Hourly VMT distributions;
- Statewide I/M program inputs and Anaerobic Thermal Processor (ATP); and
- RVP and fuel program data.

The data submitted by Connecticut indicated that Federal Northern reformulated gasoline is in place in the State, with an ozone season RVP of 6.8 pounds per square inch (psi). Based on the NMIM modeling that was performed for the annual emission inventory, the reformulated gasoline program was modeled in the SMOKE MOBILE6 input files using the combination of the FUEL PROGRAM: 4 command (indicating user-supplied gasoline sulfur inputs), RVP command, and the OXYGENATED FUELS command. The monthly oxygenated fuel and gasoline sulfur inputs, and the non-ozone season monthly RVP values were obtained from the

NMIM national county database for Connecticut. During the ozone season months, the RVP value submitted by Connecticut of 6.8 psi was modeled. The fuel data obtained from NMIM are the same for all counties in Connecticut, except Fairfield, which shows different fuel properties, but all represent reformulated gasoline. These values for both Fairfield and the remaining counties differed by season (i.e., the ozone season from May through September, transition months of March, April, October, and November, and the winter months of December, January, and February). Statewide diesel sulfur values modeled from NMIM were 367 ppm sulfur in the summer months (June, July, and August), 340 ppm sulfur in the winter months (December, January, and February), and 353 ppm sulfur in the spring and fall months.

Data provided by Connecticut indicated that the State follows the OTC low emission vehicle (LEV) program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for Connecticut.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

2. Delaware

a. What Data Sources Were Used?

Table V-3 summarizes the onroad SMOKE input files that were prepared containing information for the State of Delaware. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Delaware provided VMT data in the form of the NEI NIF PE table as well as in the NMIM BaseYearVMT table format. Additionally, Delaware provided monthly VMT fractions developed from VMT counts on a variety of road types. These monthly VMT fractions were provided for each of the Delaware counties. Since the data in the NEI NIF PE table were at the level of detail needed for the SMOKE MBINV file, the format of the VMT data was simply converted from the NIF format to the SMOKE MBINV format. Similarly, the monthly VMT fractions were converted to the profile format needed in the SMOKE MTPRO file, with the appropriate cross references in the MTREF file. The average speeds provided by Delaware at the county/road type level were included in the SMOKE MBINV file.

Table V-3. Delaware Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	DE
Speeds	MANEVU_2002_mbinv_02022006.txt	County/road type	DE
VMT mix	MANEVU_2002_vmtmix_02022006.txt	County/road type	
Temporal profiles	MANEVU_2002_mtpro_02022006.txt and MANEVU_2002_mtref_02022006.txt	Monthly by county/road type	DE
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

The fuel data submitted by Delaware was based on the NMIM defaults with the NMIM October data replaced by the NMIM November data. The reformulated gas fuel parameters were modeled in the SMOKE MOBILE6 input files by using the combination of the OXYGENATED FUELS, FUEL RVP, and FUEL PROGRAM (for gasoline sulfur contents) commands for each month. Statewide diesel sulfur values modeled from NMIM were 300 ppm sulfur in the summer months (June, July, and August), 280 ppm sulfur in the winter months (December, January, and February), and 290 ppm sulfur in the spring and fall months.

Data provided by Delaware indicated that the State follows the OTC-LEV program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for Delaware.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

3. District of Columbia

a. What Data Sources Were Used?

Table V-4 summarizes the onroad SMOKE input files that were prepared containing information for the District of Columbia. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-4. District of Columbia Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	DC
Speeds	MANEVU_2002_mbinv_02022006.txt	Road type	DC
VMT mix	MANEVU_2002_vmtmix_02022006.txt	Road type	DC
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

The District of Columbia provided 2002 VMT data in the form of the NMIM BaseYearVMT table. This table included VMT at the 28 vehicle type level for each of the six urban road types in the District of Columbia. VMT from these 28 vehicle types were then aggregated to the 12 vehicle types needed for the SMOKE MBINV input file. The VMT mix fractions by vehicle type for each county and road type were also calculated for inclusion in the SMOKE VMTMIX file. The District also provided a spreadsheet including the daily average weighted speed by roadway class. These speeds were incorporated in the SMOKE MBINV file. The District of Columbia provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- District-wide registration distribution;
- I/M program and ATP inputs; and
- Weekday trip length distribution file.

The District of Columbia specified that the NMIM fuel program default data for the District should be used for the MANE-VU modeling. This included reformulated gasoline district wide, modeled using the FUEL RVP, and FUEL PROGRAM (for gasoline sulfur contents) commands for each month. Statewide diesel sulfur values modeled from NMIM were 329 ppm sulfur in the summer months (June, July, and August), 324 ppm sulfur in the winter months (December, January, and February), and 326 ppm sulfur in the spring and fall months.

Data provided by the District of Columbia indicated that the District follows the OTC-LEV program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for the District of Columbia.

c. What Issues Need to be Addressed in Future Versions?

The SMOKE MOBILE6 files for the District of Columbia should include the OXYGENATED FUELS command to fully model reformulated gasoline in the District of Columbia. This command was inadvertently left out of the SMOKE MOBILE6 files.

4. Maine

a. What Data Sources Were Used?

Table V-5 summarizes the onroad SMOKE input files that were prepared containing information for the State of Maine. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-5. Maine Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	ME
Speeds	MANEVU_2002_mbinv_02022006.txt	County/road type	ME
VMT mix	MANEVU_2002_vmtmix_02022006.txt	Statewide/road type	Default
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

Maine provided 2002 average daily VMT by county and 12 roadway types. Maine had no information available on the distribution of VMT among vehicle types. Therefore, Pechan developed the VMT by county, roadway type, and vehicle type by using the default MOBILE6 2002 VMT mix by vehicle type. These VMT data were converted to annual VMT by multiplying the average daily VMT by 365. The MOBILE6 VMT default mix fractions by vehicle type for 2002 were included for Maine in the SMOKE VMTMIX file. Maine also provided average speed data by county and roadway type. These data were included in the SMOKE MBINV file.

Maine provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- I/M program inputs and ATP inputs for Cumberland County only; and
- Monthly average RVP data.

Statewide diesel sulfur values were obtained from the NMIM defaults for Maine. A diesel sulfur value of 390 ppm sulfur was modeled in the summer months (June, July, and August), 338 ppm sulfur in the winter months (December, January, and February), and 364 ppm sulfur in the spring and fall months.

Data provided by Maine indicated that the State follows the OTC-LEV program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for Maine.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

5. Maryland

a. What Data Sources Were Used?

Table V-6 summarizes the onroad SMOKE input files that were prepared containing information for the State of Maryland. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Maryland submitted annual VMT data in the form of a NIF tblMobilePE table. This included VMT by county, 12 vehicle types, and 12 road types. These VMT data were then converted to the format needed for the SMOKE MBINV file. Pechan calculated VMT mix fractions from the VMT data supplied by Maryland to obtain the VMT mixes by county and road type contained in the SMOKE VMTMIX file. In addition, Maryland provided monthly VMT distribution data by road type. Pechan converted these data to the format needed for the SMOKE MTPRO and MTREF files. The same set of monthly temporal profiles were applied to all counties in Maryland. Maryland also provided a spreadsheet showing the average speed Statewide for each of the 12 roadway types. These speed data were included in the SMOKE MBINV file.

Maryland provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- County-specific registration distribution;
- County-specific diesel sales fractions;
- I/M program inputs and ATP inputs to be applied in the 14 I/M counties; and
- Statewide monthly diesel sulfur content data.

Maryland indicated that the NMIM default fuel parameters for Maryland should be used in the MANE-VU modeling. This fuel data includes reformulated gasoline in 14 of the Maryland counties. The reformulated gasoline program was modeled using the FUEL RVP, and FUEL PROGRAM (for gasoline sulfur contents) commands for each month. Maryland provided monthly Statewide diesel sulfur values. These values ranged from 455 ppm sulfur to 500 ppm

sulfur. These values were included in the corresponding monthly SMOKE MOBILE6 input files.

Table V-6. Maryland Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	MD
Speeds	MANEVU_2002_mbinv_02022006.txt	County/road type	MD
VMT mix	MANEVU_2002_vmtmix_02022006.txt	County/road type	MD
Temporal profiles	MANEVU_2002_mtpro_02022006.txt and MANEVU_2002_mtref_02022006.txt	Statewide monthly by road type	MD
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

Data provided by Maryland indicated that the State follows the OTC-LEV program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for Maryland affecting the modeling inventory files.

c. What Issues Need to be Addressed in Future Versions?

The SMOKE MOBILE6 files for Maryland should include the OXYGENATED FUELS command to fully model reformulated gasoline in the Maryland counties that implement the reformulated gasoline program. This command was inadvertently left out of the Maryland SMOKE MOBILE6 files.

6. Massachusetts

a. What Data Sources Were Used?

Table V-7 summarizes the onroad SMOKE input files that were prepared containing information for the State of Massachusetts. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-7. Massachusetts Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	MA
Speeds	MANEVU_2002_mbinv_02022006.txt	County/road type	MA
VMT mix	MANEVU_2002_vmtmix_02022006.txt	County/road type	Default
Temporal profiles	MANEVU_2002_mtpro_02022006.txt and MANEVU_2002_mtref_02022006.txt	Monthly by county	MA
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

The Version 3 MANE-VU onroad modeling for Massachusetts differed from the Version 2 modeling, based on updates provided by Massachusetts in December 2005. The primary changes for Massachusetts from Version 3 is the use of updated 2002 VMT data and vehicle speed date. Massachusetts provided a spreadsheet containing revised VMT values and vehicle speeds for 2002 by county and SCC. Pechan prepared the revised Massachusetts VMT data and the speed data in the format of the SMOKE MBINV file. Using the revised VMT data by SCC, Pechan calculated the updated VMT mixes by vehicle type for each county and road type in Massachusetts and formatted the resulting data to be included in the SMOKE VMTMIX file.

The original VMT data submitted by Massachusetts included VMT for each of the four seasons. Pechan used these data to develop monthly VMT temporal profiles. Seasonal VMT was assigned to the months in that season based on the ratio of the number of days in a specific month to the number of days in the season. Pechan then formatted the monthly temporal VMT allocation factors for inclusion in the SMOKE MTPRO and MTREF files.

Massachusetts provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- Statewide registration distribution;
- Statewide I/M program inputs and ATP inputs;
- RVP and fuel program data;
- Diesel sulfur content of 350 ppm sulfur year-round and statewide; and
- Massachusetts-specific LEV and Tier 2 implementation files.

Northern reformulated gasoline was modeled statewide throughout the State, with a RVP value of 6.7 psi during the ozone season and 13.5 psi during the remaining months, based on inputs provided by Massachusetts. The section below on QA issues for Massachusetts discusses the fuel inputs modeled in the Version 3 SMOKE MOBILE6 input files in more detail. Massachusetts provided the necessary inputs to model the State's LEV implementation schedule and Tier 2 data, which differ from the OTC-LEV program and from the default MOBILE6 Tier 2 data.

b. What QA Issues were Identified and Addressed?

In addition to the VMT updates, Pechan revised the SMOKE MOBILE6 input files for Massachusetts for Version 3. This was done because Version 2 of the MANE-VU modeling inventory was prepared using the default setting of MOBILE6 to model reformulated gasoline (i.e., using the command line "FUEL PROGRAM : 2 N"). Since the time that the Version 2 inventory was created, EPA found a bug with the sulfur content values used when the default reformulated gasoline command is used. To eliminate this problem, Pechan created revised SMOKE MOBILE6 input files for Massachusetts that model reformulated gasoline by explicitly setting the RVP, gasoline sulfur contents, and gasoline oxygen contents. The gasoline sulfur contents and gasoline oxygen contents were set according to the default parameters laid out in the MOBILE6 user's guide. The summer (May through September) sulfur content is 129 ppm in 2002 and the winter sulfur content is 279 ppm in 2002. The summer gasoline contains 2.1 percent oxygen, with MTBE as the oxygenate. The winter gasoline contains 1.5 percent oxygen in 70 percent of the fuel having MTBE as the oxygenate, and 3.5 percent oxygen in 30 percent of the fuel having ETOH as the oxygenate. The RVP values were not changed from those modeled in Version 2 (6.7 psi in the summer and 13.5 psi in the winter).

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

7. New Hampshire

a. What Data Sources Were Used?

Table V-8 summarizes the onroad SMOKE input files that were prepared containing information for the State of New Hampshire. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-8. New Hampshire Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	NH
Speeds	MANEVU_2002_mbinv_02022006.txt	County/road type	NH
VMT mix	MANEVU_2002_vmtmix_02022006.txt	Statewide	NH
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

The VMT inputs provided by New Hampshire were in the form of summer day VMT by county or nonattainment area and roadway type. In addition, New Hampshire provided a Statewide VMT mix distribution by 16 vehicle types in the MOBILE6 files provided by the State. Pechan then developed a simple MOBILE6 input file that used the New Hampshire Statewide registration distribution and the Statewide VMT mix by vehicle type. Pechan used the resulting MOBILE6 output file to extract the 28 vehicle type VMT mix to be applied Statewide to the county/roadway type VMT data. Summer day miles were converted to annual miles by using national data from the Federal Highway Administration's Travel Volume Trends which provides 2002 monthly VMT for groups of road categories. Additionally, the VMT data from the three New Hampshire nonattainment areas represented four counties. To allocate these VMT by county, Pechan first totaled the VMT data from these three nonattainment areas by roadway type. Then, using ratios developed from the preliminary 2002 NEI VMT, Pechan allocated the grouped VMT by county and roadway type. With VMT for the entire State at the county/roadway type level of detail, Pechan then multiplied the VMT data by the 28 vehicle type VMT fractions to obtain a VMT file at the 28 vehicle type level and 12 roadway type level by county for use in preparing the annual onroad emission inventory. VMT from these 28 vehicle types were then aggregated to the 12 vehicle types needed for the SMOKE MBINV input file. The VMT mix fractions by vehicle type for each county and road type were also calculated for inclusion in the SMOKE VMTMIX file. New Hampshire also provided a spreadsheet including the average speed by roadway class for each county or county group. These speeds were incorporated in the SMOKE MBINV file.

New Hampshire provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- Statewide registration distribution; and
- Statewide ATP inputs.

New Hampshire specified that the NMIM fuel program default data for New Hampshire should be used for the MANE-VU modeling. This included reformulated gasoline in four counties, modeled using the FUEL RVP, and FUEL PROGRAM (for gasoline sulfur contents) commands for each month. Statewide diesel sulfur values modeled from NMIM were 400 ppm sulfur in the

summer months (June, July, and August), 340 ppm sulfur in the winter months (December, January, and February), and 370 ppm sulfur in the spring and fall months.

Data provided by New Hampshire indicated that the State follows the OTC-LEV program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

Through the State QA report process, New Hampshire provided updated inputs for VMT and speeds that were incorporated in the modeling inventory inputs.

c. What Issues Need to be Addressed in Future Versions?

The SMOKE MOBILE6 files for the four New Hampshire that implement reformulated gasoline should include the OXYGENATED FUELS command to fully model the benefits reformulated gasoline. This command was inadvertently left out of the SMOKE MOBILE6 files.

8. New Jersey

a. What Data Sources Were Used?

Table V-9 summarizes the onroad SMOKE input files that were prepared containing information for the State of New Jersey. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-9. New Jersey Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	NJ
Speeds	MANEVU_2002_mbinv_02022006.txt	Road type/3 vehicle groups	Default NEI
VMT mix	MANEVU_2002_vmtmix_02022006.txt	County/road type	NJ
Temporal profiles	MANEVU_2002_mtpro_02022006.txt and MANEVU_2002_mtref_02022006.txt	Monthly by 3 county groups and weekday/weekend	NJ
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

Updates were made to the Version 2 MOBILE6 SMOKE inputs for New Jersey in December 2005 to create Version 3, based on revised data provided by the State. New Jersey provided the following files:

- a set of SMOKE MOBILE6 input files by county and month;
- NJ_2002_mbinv.txt file that contained revised VMT and speeds by county and SCC, generated by NJDEP in August 2005, in SMOKE format;
- amptref.m3.manevu.vistascem.032805_NJVMT.txt—a SMOKE-formatted file containing county/SCC-level temporal profile cross-references;
- amptro.m3.manevu.vistascem.032805_NJVMT.txt—a SMOKE-formatted file containing county-specific VMT temporal profiles prepared by NJDEP in August 2005; and
- zip files containing external files needed to run the SMOKE MOBILE6 files.

After an initial review of these files, Pechan did not note any differences in the SMOKE MOBILE6 files from the Version 2 files. Pechan then confirmed with New Jersey that the only changes from the Version 2 date were in the VMT data. The VMT and speed data by county and SCC in the MBINV file provided by New Jersey were copied to the MANE-VU SMOKE MBINV file, replacing the VMT and speed data from the Version 2 SMOKE MBINV file for New Jersey. The speed data included by New Jersey are the default NEI speeds by road type and vehicle type. Using the new VMT data provided by New Jersey, Pechan calculated a revised set of VMT mix fractions by vehicle type and included these in the Version 3 SMOKE VMTMIX file. Pechan pasted the temporal profiles provided for New Jersey into the SMOKE MTPRO file. This included monthly temporal profiles and diurnal temporal profiles. The diurnal temporal profiles were applied to both weekdays and weekends. Similarly the temporal cross reference data included in the file provided by New Jersey was pasted into the SMOKE MTREF file for MANE-VU Version 3.

The following New Jersey-provided were included in the monthly MOBILE6 input files for the SMOKE modeling:

- Statewide registration distribution;
- Statewide diesel sales fractions;
- Statewide I/M program and ATP inputs; and
- Diesel sulfur content data (340 ppm statewide).

Northern reformulated gasoline was modeled statewide throughout the State, using NMIM fuel program input defaults for New Jersey. The section below on QA issues for New Jersey discusses the fuel inputs modeled in the Version 3 SMOKE MOBILE6 input files in more detail.

Data provided by New Jersey indicated that the State follows the OTC-LEV program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

As discussed above for New Jersey, the Version 2 New Jersey SMOKE MOBILE6 input files modeled reformulated gasoline using the command line “FUEL PROGRAM : 2 N”, which is the default method for modeling reformulated gasoline with MOBILE6. To eliminate the effects

of the MOBILE6 reformulated gasoline bug from the SMOKE MOBILE6 inputs, Pechan explicitly modeled the reformulated gasoline program in the New Jersey MOBILE6 input files by explicitly modeling the appropriate settings of the RVP, oxygenated fuel content commands, and gasoline sulfur commands. The values for oxygenated fuel settings and gasoline sulfur contents by month were extracted from the NMIM county-level database used in developing the annual emissions inventory for the MANE-VU Version 2 onroad emissions inventory.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

9. New York

a. What Data Sources Were Used?

Table V-10 summarizes the onroad SMOKE input files that were prepared containing information for the State of New York. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-10. New York Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	NY
Speeds	MANEVU_2002_mbinv_02022006.txt	Road type/3 vehicle groups	Default NEI
Speed profiles	MANEVU_2002_spdpro.txt and MANEVU_2002_spdref.txt	County/hour/road type	NY
VMT mix	MANEVU_2002_vmtmix_02022006.txt	County/road type	NY
Temporal profiles	MANEVU_2002_mtpro_02022006.txt and MANEVU_2002_mtref_02022006.txt	Monthly by 3 county groups	NY
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

VMT for New York was provided in the form of a NIF PE table. These VMT data were extracted and included in the SMOKE MBINV file. VMT mix fractions by vehicle type were calculated from these VMT data and included in the SMOKE VMTMIX file.

New York provided a spreadsheet with average speeds in each of four daily time periods by county and road type. Pechan converted these speed data to the SMOKE SPDPRO format, assigning the speed for a given time period to all hours included in that time period. Pechan also prepared the SMOKE SPDREF file to appropriately cross reference each county and road type to the corresponding hourly speed profile. Because these more detailed speed files were provided for New York, the average speed by road type and county in the MBINV file was populated with default NEI speeds.

New York also provided spreadsheets showing monthly VMT by county and roadtype. After processing these VMT values to develop monthly temporal factors, Pechan observed that there were only three unique monthly profiles in this data set. These three profiles were then added to the SMOKE MTPRO file. Pechan then matched each county and road type in the State to the corresponding monthly VMT profile in the SMOKE MTREF file.

New York provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- Registration distributions—one for the New York metropolitan area and one for the rest of the State;
- Diesel sales fractions—one for the New York metropolitan area and one for the rest of the State;
- Statewide mileage accumulation rate input;
- Monthly RVP data—one set for the New York metropolitan area and one for the rest of the State;
- Reformulated gasoline program inputs for affected counties modeled with MOBILE6 defaults (i.e., "FUEL PROGRAM : 2 N");
- I/M program inputs for affected counties;
- Statewide ATP inputs;
- Hourly VMT distributions by county group;
- Start distributions by county;
- Diesel sulfur content data (400 ppm statewide).

New York also provided the necessary input files to model the State's LEV program implementation schedule, which differs from the OTC LEV program. New York also provided MOBILE6 Tier 2 modeling files to be used along with the New York LEV program inputs. These inputs were included in the SMOKE MOBILE6 modeling.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for New York affecting the modeling inventory files.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

10. Pennsylvania

a. What Data Sources Were Used?

Table V-11 summarizes the onroad SMOKE input files that were prepared containing information for the State of Pennsylvania. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-11. Pennsylvania Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	PA
Speeds	MANEVU_2002_mbinv_02022006.txt	County/road type	PA
VMT mix	MANEVU_2002_vmtmix_02022006.txt	County/road type	PA
Temporal profiles	MANEVU_2002_mtpro_02022006.txt and MANEVU_2002_mtref_02022006.txt	Monthly by county	PA
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

Pennsylvania provided a database file (NEIANN02.dbf) that contained the VMT and speed data by county, roadway type, and vehicle type. This included the same VMT used in the calculation of the annual onroad inventory submitted by Pennsylvania for MANE-VU. Pechan converted the data from this database file into VMT and speed data in the format of the SMOKE MBINV file. From the VMT data, Pechan calculated VMT fractions by vehicle type by county and road type for inclusion in the SMOKE VMTMIX file. Pennsylvania also provided estimates of VMT by month for each county. Pechan converted these data to monthly allocation factors in the format needed by the SMOKE MTPRO and MTREF files. A separate monthly profile was developed for each county, but applied to all road types within that county.

Pennsylvania provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- Registration distributions for each individual county;
- I/M program and ATP inputs for affected Philadelphia and Pittsburgh area counties (inputs differ for the two areas);
- Monthly RVP data for all counties including 7.8 psi RVP program from May through September for Pittsburgh counties;
- Reformulated gasoline for the 5-county Philadelphia area modeled with MOBILE6 defaults (i.e., “FUEL PROGRAM : 2 N”); and
- Diesel sulfur content data (500 ppm statewide).

Data provided by Pennsylvania indicated that the State follows the OTC-LEV program vehicle implementation schedule. Therefore, the OTC-LEV program LEV implementation schedule was included in the MOBILE6 SMOKE input files, starting implementation in the 1999 model year followed by a full implementation of the National LEV program in the 2001 model year.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for Pennsylvania affecting the modeling inventory files.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

11. Rhode Island

a. What Data Sources Were Used?

Table V-12 summarizes the onroad SMOKE input files that were prepared containing information for the State of Rhode Island. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-12. Rhode Island Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	RI
Speeds	MANEVU_2002_mbinv_02022006.txt	County group/road type	RI
VMT mix	MANEVU_2002_vmtmix_02022006.txt	Statewide	RI
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

Rhode Island provided a spreadsheet with the 2002 VMT as well as Statewide 2002 VMT fractions by 16 vehicle types. Pechan prepared a simple MOBILE6 input file including this Rhode Island 2002 VMT mix by vehicle type and the 2002 Rhode Island registration distribution. The VMT mix in the MOBILE6 output file at the 28 vehicle type level was then used to distribute the VMT by vehicle category. The 2002 daily VMT was at the State level, broken down by the 12 roadway types. To allocate these VMT data to the county/road type level of detail, Pechan summed the VMT from the preliminary version of EPA's 2002 NEI for Rhode Island first by State and roadway type and then by county and roadway type. Pechan calculated county/roadway type VMT fractions by dividing the VMT at the county/roadway type level by the State/roadway type VMT for the same roadway type. These fractions were then multiplied by the VMT supplied by Rhode Island at the State/roadway type level of detail to obtain county/roadway type VMT data. These county/roadway type VMT data were then multiplied by the 28 vehicle type VMT fractions to obtain VMT at the level of detail needed to populate the NMIM BaseYearVMT table for calculating the annual inventory and were then summed to the 16-vehicle type level of detail for use in the SMOKE MBINV file. The data were also converted from daily VMT to annual by multiplying the average daily VMT by 365. VMT mix fractions

from this final data set were then formatted in the SMOKE VMTMIX format at the State level of detail. Statewide speeds by road type, as provided by Rhode Island, were included in the SMOKE MBINV file.

Rhode Island provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- Statewide registration distribution; and
- Statewide I/M program inputs.

Data for fuel parameters were obtained from the NMIM national county database for Rhode Island. This included reformulated gasoline Statewide, modeled using the FUEL RVP, and FUEL PROGRAM (for gasoline sulfur contents) commands for each month. These values differed by season, but were consistent Statewide. Statewide diesel sulfur values modeled from NMIM were 400 ppm sulfur in the summer months (June, July, and August), 340 ppm sulfur in the winter months (December, January, and February), and 370 ppm sulfur in the spring and fall months.

The NMIM default LEV program for Rhode Island was modeled, which includes the OTC-LEV program LEV implementation schedule.

b. What QA Issues were Identified and Addressed?

No QA issues were identified for Rhode Island.

c. What Issues Need to be Addressed in Future Versions?

The Rhode Island SMOKE MOBILE6 input files did not include the OXYGENATED FUELS command. This should have been used to fully characterize the parameters of reformulated gasoline that is used Statewide in Rhode Island.

12. Vermont

a. What Data Sources Were Used?

Table V-13 summarizes the onroad SMOKE input files that were prepared containing information for the State of Vermont. This table notes the level of detail of the data included as well as the source of the original information used to create these data files.

Table V-13. Vermont Onroad Data in SMOKE Input Files

	Final MANE-VU Version 3 SMOKE Input File	Level of Detail	Data Source
VMT	MANEVU_2002_mbinv_02022006.txt	County/SCC	VT
Speeds	MANEVU_2002_mbinv_02022006.txt	Road type/vehicle group (light-duty vs. heavy-duty)	VT
VMT mix	MANEVU_2002_vmtmix_02022006.txt	County/road type	VT
Temporal profiles	MANEVU_2002_mtpro_02022006.txt and MANEVU_2002_mtref_02022006.txt	Monthly statewide	
SMOKE MOBILE6 file listing	MANEVU_2002_mcref_02022006.txt	County	
SMOKE MOBILE6 file listing	MANEVU_2002_mvref_02022006.txt	County	

Vermont submitted VMT data in the format of the NIF PE table. Vermont then provided updated VMT data for three road classifications (rural minor collectors, rural local roads, and urban local roads) in December 2004, after the time that these changes could be included in the MANE-VU annual onroad emission inventory. However, the updated VMT were included in the MANE-VU Version 3 onroad SMOKE modeling files. This VMT change resulted in a Statewide decrease in VMT from about 9.5 billion miles to about 7.8 billion miles. As a result, the SMOKE modeling performed by MANE-VU will not match the MANE-VU emission inventory for Vermont. The VMT data were converted to the SMOKE MBINV file format. VMT mix fractions were calculated from the VMT data and included in the SMOKE VMTMIX file. Vermont also provided information on the temporal allocation of VMT. From these data, Pechan prepared a monthly VMT profile for Vermont and included the data in the SMOKE MTPRO and MTREF files.

Vermont provided information on Statewide speeds by roadway type. These speeds differed for light-duty vehicles and heavy-duty vehicles. Pechan incorporated this speed information into the SMOKE MBINV file.

Vermont provided the following data that were incorporated into the monthly MOBILE6 input files for the SMOKE modeling:

- Statewide registration distribution;
- Statewide I/M program inputs; and
- RVP data.

The RVP data provided by Vermont were based on data from a local gasoline tank farm and resulted in an RVP value of 8.5 psi during the ozone season months (May through September) and 9.47 psi for the remaining months. Data for fuel parameters other than RVP (e.g., diesel and gasoline fuel sulfur content) were obtained from the NMIM national county database for Vermont. These values differed by season, but were consistent Statewide. Statewide diesel

sulfur values modeled from NMIM were 300 ppm sulfur in the summer months (June, July, and August), 290 ppm sulfur in the winter months (December, January, and February), and 295 ppm sulfur in the spring and fall months.

The NMIM default LEV program for Vermont was modeled, which includes Vermont's State-specific LEV implementation schedule.

b. What QA Issues were Identified and Addressed?

Through the State QA report process, Vermont provided a missing registration data file, RVP data and revised VMT.

c. What Issues Need to be Addressed in Future Versions?

None identified by the State.

CHAPTER VI – BIOGENIC SOURCES

A. General Methods for all States

1. What Data Sources Were Used?

Biogenic emissions for the time period from January 1, 2002 – December 31, 2002 were calculated by the New York State Department of Environmental Conservation (NYSDEC) for all of the MANE-VU states using the Biogenic Emissions Inventory System (BEIS) version 3.12 integrated within SMOKE2.1. The inventory was prepared at the state-level for CO, nitrous oxide (NO), and VOC.

General information about BEIS is available at http://www.epa.gov/AMD/biogen.html while documentation about biogenic emissions processing within SMOKE2.1 is available at http://cf.unc.edu/cep/empd/products/smoke/version2.1/html/ch06s10.html and http://cf.unc.edu/cep/empd/products/smoke/version2.1/html/ch06s17.html. Note that the SMOKE documentation refers to BEIS3.09 and has not yet been updated for BEIS3.12. This affects the number of species modeled as well as the use of different speciation profiles. However, the general processing approach has not changed from BEIS3.09 to BEIS3.12. In short, this processing approach is as follows and was utilized by NYSDEC for its biogenic emission processing for MANE-VU and the OTC modeling:

- **Normbeis3** reads gridded land use data and emissions factors and produces gridded normalized biogenic emissions for 34 species/compounds. The gridded land use file utilized by NYSDEC includes the fractional coverage of 230 different land use types for each of the 172 * 172 12-km grid cells in the MANE-VU/OTC modeling domain. In a separate BEIS3.12 input file, both summer and winter emissions factors for each species/compound are provided for each of the 230 land use types. On output, **Normbeis3** generates a file `B3GRD` which contains gridded summer and winter emission fluxes for the modeling domain that are normalized to 30 °C and a photosynthetic active radiation (PAR) of 1000 $\mu mol/m^2s$. In addition, gridded summer and winter leaf area indices (LAI) are also written to `B3GRD`.

- **Tmpbeis3** reads the gridded, normalized emissions file B3GRD and meteorological data from the MCIP-processed MM5 meteorological fields generated by the University of Maryland for MANE-VU/OTC modeling. Specifically, the following MM5/MCIP meteorological variables are used by **Tmpbeis3** to compute hour-specific, gridded biogenic emissions from the normalized emission fluxed contained in B3GRD: layer-1 air temperature ("TA"), layer-1 pressure ("PRES"), total incoming solar radiation at the surface ("RGRND"), and convective ("RC") and non-convective ("RN") rainfall. Additionally, the emissions for the 34 species/compounds modeled by BEIS3.12 are converted to CO, NO, and the CB-IV VOC species utilized in CMAQ via the use of the BEIS3.12-CB-IV speciation profile. Furthermore, an external file, BIOSEASON, was utilized to decide whether to use summer or winter emissions factors for any given grid cell on any given day. This file was generated by the SMOKE2.1 utility **Metscan** based on MM5 layer-1 air

temperatures to determine the date of the last spring frost and first fall frost at each grid cell. Summer emission factors are used by **Tmpbeis3** for the time period between the day of the last spring frost and the day of the first fall frost at any given grid cell, and winter emission factors are used for the remaining time period. Documentation for the **Metscan** utility is available at http://cf.unc.edu/cep/empd/products/smoke/version2.1/html/ch05s07.html. An animated GIF file showing the BIOSEASON file used by NYSDEC can be found at ftp://ftp.dec.state.ny.us/dar/air_research/chogrefe/biog_reports/b3season_movie.gif.

- For reporting purposes, the hourly, speciated, gridded emissions were aggregated to the county level for each day. For any given grid cell, emissions were distributed among the counties intersecting this grid cell in proportion to the area of each of these counties within the grid cell. The area gridding surrogates needed for this aggregation are based on a file obtained from EPA via http://www.epa.gov/ttn/chief/emch/spatial/new/bgpro.2km_041604.us.gz, followed by windowing for the MANE-VU/OTC modeling domain.

2. Version 3 Emissions Summary

Table VI-1 presents a State-level summary of the annual biogenic source emissions in Version 3 of the 2002 MANE-VU inventory. The annual emissions are based on the sum of the daily emissions prepared using the modeling approach previously discussed.

Table VI-1. Version 3 2002 MANE-VU Biogenic Source Emissions by State (Tons/Year)

State	CO	NO	VOC*
Connecticut	6,889	560	64,017
Delaware	4,274	990	46,343
District of Columbia	150	30	1,726
Maine	64,936	2,018	600,205
Maryland	18,351	2,934	210,104
Massachusetts	11,594	1,257	113,958
New Hampshire	14,306	482	141,894
New Jersey	14,058	1,813	181,617
New York	63,436	8,313	492,487
Pennsylvania	59,946	8,646	585,272
Rhode Island	1,764	211	19,233
Vermont	14,745	1,142	118,377
MANE-VU	274,451	28,396	2,575,232

* VOC emissions were calculated by adding the emissions for the following pollutants: ALD2, ETH, FORM, ISOP, NR, OLE, PAR, TERB, TOL, XYL.

B. State-Specific Methods

No state-specific methods were used in Version 3 of the MANE-VU inventory for biogenic emissions.

CHAPTER VII. TEMPORAL, SPECIATION, AND SPATIAL ALLOCATION PROFILES AND PREPARATION OF SMOKE (IDA) AND RPO DATA EXCHANGE PROTOCOL (NIF 3.0) FORMATS

Table VII-1 provides a summary of the file names and documentation used for modeling inputs for Version 3 of MANE-VU's 2002 inventory for point, area, nonroad, and onroad sources. The final input files used for temporal allocation, speciation, and spatial allocation of emissions were developed for Version 1 of the 2002 inventory and delivered to MARAMA during January 2005 (MANE-VU, 2005). These files were developed starting with the latest model input files available from EPA and then revised to include updates needed for the MANE-VU region or to add SCCs and profile assignments not included in the initial EPA data sets. The files were revised between September 2004 and January 2005 to incorporate comments provided by MANE-VU. Files in Table VII-1 with a date that is later than January 2005 were prepared to support modeling for Version 3. The notes column in the table identifies the modifications made to the files if the files were changed after this date. Otherwise, files with a date later than January 2005 were either provided by a state agency or were obtained from EPA and used for modeling Version 3.

The remainder of this chapter provides a brief summary of the revisions made to the EPA data sets prepared for Version 1 of the 2002 MANE-VU inventory and subsequently carried for the modeling for Version 3. Sections A, B, and C of this chapter discuss how the temporal allocation, speciation, and spatial allocation profiles, respectively, were developed. Section D of this chapter describes how the emissions inventory data were prepared in the SMOKE (IDA) and RPO Data Exchange Protocol (NIF 3.0) Formats.

A. Temporal Profiles

1. Point and Area Sources

The most recent SMOKE temporal cross-reference files available from EPA during the summer of 2004 were used as the starting point for developing the cross-reference files for point and area sources. The following 3 classes of modifications were completed to improve the temporal allocation input files:

- Update temporal cross-reference to assign an existing profile in the default SMOKE profiles for SCCs in the MANE-VU inventory
- Create a new temporal cross-reference to an existing profile in the default SMOKE profiles for SCCs in the MANE-VU inventory; the cross-reference did not previously exist in the default SMOKE files but the profile did exist.
- Create new temporal profiles and cross-references for SCCs in the MANE-VU inventory; neither the cross-reference nor profiles for the MANE-VU SCCs previously existed in the default SMOKE files.

a. Point Sources

A total of 30 point SCCs existed in the MANE-VU point source inventory that were not in the point source cross-reference file; therefore, the SCCs were added to the cross-reference file and assigned to existing profiles based on the assignment of similar SCCs already assigned to the profiles. Table II-2 lists the SCCs along with the state and county FIPS where they occurred in the MANE-VU inventory. Temporal profiles could not be identified for the SCCs listed in Table VII-3 due to either the SCC being shorter than 8-digits or the lack of information about the source categories for identifying an appropriate profile assignment. These SCCs were assigned the default profile by SMOKE.

b. Area Sources

For area sources, the improvements to the EPA cross-reference file included updates to existing profiles in the file based on MANE-VU-specific data (see Table VII-4), addition of SCCs that were assigned to existing profiles based on the assignment of similar SCCs already assigned to the profiles (see Table VII-5), and addition of new SCCs and profiles based on MANE-VU- or RPO-specific data (see Table VII-6).

Additional cross-referencing information used to revise the temporal cross-reference file included MANE-VU county-level information for residential wood combustion, monthly temporal profiles developed for NH_3 source categories using the Carnegie Mellon University (CMU) model, and a Delaware-specific cross-reference file associated with the Delaware inventory. The additions of new SCCs and new profiles shown in Table VII-6 mostly apply to the state of Delaware (State FIPS=10). For the FIPS column, the "-9" designation means the cross-reference is applied for all counties that do not have a county or state-specific SCC cross-reference record. These changes to the temporal cross-reference file allowed for the assignment of a non-flat temporal profile (262= uniform monthly, 7=uniform weekly and 24=uniform diurnal) to 95% of the SCCs in the area inventory.

2. Nonroad Sources

Nonroad sources used the same temporal profile and cross-reference files as area sources.

3. Onroad Sources

For onroad sources, the following States provided their own data to update the default temporal profile files and the temporal cross reference files: Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, and Vermont. Each of these States provided VMT information that could be used to develop monthly temporal profiles. The data were provided in a variety of formats, ranging from monthly or seasonal VMT to SMOKE-formatted monthly VMT temporal profiles. Where necessary, the monthly or seasonal VMT data were converted into the SMOKE monthly temporal profile format. In addition, New Jersey provided information for diurnal temporal profiles. However, the level of detail or variability provided in these monthly profiles varied by State. Connecticut's and Delaware's profiles each varied by county and road type. Maryland's profiles applied Statewide, with variability in the

profiles by road type. Massachusetts' profiles varied by county, road type, and vehicle type. Both New Jersey and New York provided information for three monthly temporal profiles, each used throughout one of the three county groups in each State. The Pennsylvania profiles varied by county, but not by road type. Vermont provided information for a single monthly temporal profile to be used throughout the State.

B. Speciation Profiles

1. Point and Area Sources

The most recent SMOKE speciation cross-reference files available from EPA during the summer of 2004 were used as the starting point for developing the cross-reference files for point and area sources. These files were revised to complete SCC assignments for the Carbon Bond IV (CB-IV) with PM mechanism for point and area sources. In addition, sulfur tagging species were added to the REMSAD7 CB-IV with PM mechanism (see Table VII-1).

a. Point Sources

Thirty-one SCCs in the MANE-VU point source inventory did not have chemical speciation profile assignments for the CB-IV with PM mechanism in the default SMOKE chemical cross-reference file. For 10 of the SCCs, assignments for VOC and $PM_{2.5}$ were added to the speciation cross-reference file based on the speciation profile codes assigned to similar SCCs. Table VII-7 shows the SCCs where an SCC speciation cross-reference record was added, the VOC and $PM_{2.5}$ speciation profile code assigned, and the method used to assign the profiles. Assignments were not completed for the remaining 21 point source SCCs because of a lack of information on the emission sources needed to complete the assignments (see Table VII-8 for the list of the SCCs).

b. Area Sources

Speciation profile assignments were completed for many area source SCCs for the CB-IV with PM mechanism and were documented in separate spreadsheet files provided to MARAMA during September 2004. Assignments for VOC and $PM_{2.5}$ were added to the speciation cross-reference file based on the speciation profile codes assigned to similar SCCs. Note that the transport fractions for fugitive dust were applied as a part of the modeling effort to adjust the mass emissions in Version 3 of the inventory.

2. Nonroad Sources

No updates to the speciation profiles or speciation assignments for nonroad sources were provided by the MANE-VU States.

3. Onroad Sources

No updates to the speciation profiles or speciation assignments for onroad sources were provided by the MANE-VU States.

C. Spatial Allocation Profiles

The most recent spatial profile data files available from EPA during the summer of 2004 were used as the starting point for developing the spatial profile file for point and area sources. A detailed description of this surrogate dataset was provided in a file named "surrogate_ documentation_workbook052804.xls" from EPA's website at: http://www.epa.gov/ttn/ chief/emch/spatial/newsurrogate.html. Many SCCs in the MANE-VU inventory did not have surrogate assignments in the default SMOKE gridding cross-reference file. About 200 SCC assignments were added to the gridding cross-reference file. The assignments were based on matching surrogate descriptions from the EPA99 surrogate data with the SCC descriptions.

No updates to the spatial allocation files for nonroad and onroad sources were provided by the MANE-VU States.

D. Preparation of SMOKE (IDA) and RPO Data Exchange Protocol (NIF 3.0) Formats

Table VII-9 identifies the mass emissions and SMOKE input files for Version 3 of the MANE-VU point, area, nonroad, and onroad inventories.

The SMOKE input file format contains one field for storing daily emissions for each pollutant. The area source inventory contains summer day, winter day, and average day emissions depending on the state and source category. Thus, two sets of SMOKE input files were prepared for the area source inventory. One file contains annual, summer day, and average day emissions and the other file contains annual, winter day, and average day emissions. If summer day and average day emissions were provided for the same process and pollutant in the inventory, the summer day value was included in the SMOKE input file. If winter day and average day emissions were provided for the same process and pollutant in the inventory, the winter day value was included in the SMOKE input file.

The point source inventory contains summer day and winter day emissions. Two sets of SMOKE input files were prepared for point sources as well (one file containing annual and summer day emissions and the other containing annual and winter day emissions).

Table VII-10 provides the unique list of the start date, end date, and emission type combinations for daily emissions in the point and area source inventories that were used to define summer, winter, and average day emissions. This table also shows the names of the SMOKE input files in which the emissions are included.

For onroad sources, daily emissions were calculated by SMOKE using the monthly MOBILE6 input files included in the SMOKE input files.

The nonroad IDA file only has annual total emissions. The values in the "typical day" column are zero. Annual total emissions were allocated for each hour using the monthly, weekly, and diurnal profiles described in Section A.2 of this chapter.

Table VII-1. Profiles, Cross-references, and Documentation for Model Inputs for Version 3 of 2002 MANE-VU Inventory

Description	File Name	Format	Date of File used for Version 3	Size (Bytes)	Notes
SCC descriptions file	scc_desc_manevu.083104.txt	SMOKE	8/31/2004	1,335,524	
Temporal Allocation Profiles					
Technical memo on profile/cross-reference review for area sources	MANE-VU_AreaEI_review_draft_090304.doc	MS Word	9/3/2004	760,320	
Technical memo on profile/cross-reference review for point sources	MANE-VU_PointEI_review_draft_090304.doc	MS Word	9/3/2004	262,144	
Temporal profile cross-reference file for point sources	amptref.m3.manevu.vistascem.032805.txt	SMOKE	3/28/2005	704,998	Based on "amptref.m3.manevu.012405.txt" prepared for Version 1, but added VISTAS BaseD cross-references to the state-specific 2002 continuous emissions monitoring (CEM)-derived point source temporal profiles generated by VISTAS for their BaseD modeling.
Temporal profiles file for point sources	amptpro.m3.us+can.manevu.vistascem.032805.txt	SMOKE	3/28/2005	178,427	Based on "amptpro.m3.us+can.manevu.030205.txt" prepared for Version 1, but added state-specific 2002 CEM-derived point source temporal profiles generated by VISTAS for their BaseD modeling.
Temporal profile cross-reference file for area sources	amptref.m3.manevu.012405.txt	SMOKE	1/24/2005	687,196	
Temporal profiles file for area sources	amptpro.m3.us+can.manevu.030205.txt	SMOKE	3/2/2005	136,131	
Temporal cross-reference file containing state-specific onroad mobile source data for Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, and Vermont	MANEVU_2002_mtref_02022006_addCT.txt	SMOKE	2/22/2006	2,522,013	Data for Connecticut were added to the file after the file was prepared for the other states. Hence the reason "_addCT" is included at the end of the file name.

Table VII-1 (continued)

Description	File Name	Format	Date of File used for Version 3	Size (Bytes)	Notes
Temporal profiles file containing state-specific onroad mobile source data for Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, and Vermont	MANEVU_2002_mtpro_02022006_addCT.txt	SMOKE	2/22/2006	23,122	Data for Connecticut were added to the file after the file was prepared for the other states. Hence the reason "_addCT" is included at the end of the file name.
Spatial/Gridding					
Spreadsheet summary generated for area source gridding review	MANE-VU_agref_review.xls		8/31/2004	1,607,680	
Spatial profile cross-reference file	amgref.m3.us+can+mex.manevu.082404.txt	SMOKE	8/31/2004	89,860	
Gridding surrogate cross-reference file	amgref_us_051704_manevu_added	SMOKE	5/17/2004	35,825	Based on the surrogate cross-reference file downloaded from the EPA/CHIEF site that corresponds to the gridding surrogates file. However, several MANE-VU-specific additions included in "amgref.m3.us+can+mex.manevu.082404.txt" for Version 1 were added to the gridding-cross reference file downloaded from EPA. These are cross-references for SCCs 2806010000, 2806015000, 2870000011, 2870000015, 2870000021, and 2870000022.
Modeling grid (12-km)	amgpro.12km_041604.otc12.us.txt	SMOKE	4/16/2004	150,689,358	Based on downloaded 12-km EPA gridding surrogates windowed for the OTC domain
Speciation Profiles					
Spreadsheet summary generated for area source speciation review	MANE-VU_asref_review.xls	Excel	8/31/2004	5,626,880	
Speciation profiles file for CB-IV	gspro.cmaq.cb4p25.txt	SMOKE		142,255	
Speciation cross-reference file for CB-IV	gsref.cmaq.cb4p25.manevu.083104.txt	SMOKE	8/31/2004	786,998	

Table VII-1 (continued)

Description	File Name	Format	Date of File used for Version 3	Size (Bytes)	Notes
Speciation profile cross-reference assignment file	gsref.cmaq.cb4p25.txt	SMOKE	2/1/2005	754,302	This file is based on the file "gsref.cmaq.cb4p25.manevu.083104.txt" prepared for version 1 of the MANE-VU inventory. The only revision was to change the PM2_5 speciation profile # from its default 99999 to 35501 for some mobile source categories. This update had been done by either CENRAP or VISTAS in the speciation profiles they provided and the update had a more recent creation date than the MANE-VU files created for Version 1, so this appeared to be a refinement.
Speciation profiles for REMSAD7	gspro.remsad7.cb4mpm.txt_tag	SMOKE	5/1/2005	532,990	Based on "gspro.remsad7.cb4mpm.txt" in the SMOKE, but added tagged species for REMSAD state-level sulfur tagging.
Speciation cross-reference for REMSAD7	gsref.remsad7.cb4mpm.txt_tag	SMOKE	5/1/2005	2,614,360	Based on "gsref.remsad7.cb4mpm.txt" in the SMOKE, but added tagged species for REMSAD state-level sulfur tagging.
Transport fractions for fugitive dust	gcntl.xportfrac.txt	SMOKE	2/1/2004	124,495	File obtained from input file EPA used to adjust for PM transport for modeling of Clean Air Interstate Rule (CAIR).

Table VII-2. Point Source Temporal Cross-reference Additions

State	FIPS	SCC	Recommended profiles			Method of assignment	SCC Description (Complete description not always available)
			Monthly	Weekly	Diurnal		
VT	50005	10200908	262	7	24	Use SCC=102009XX profiles	External Combustion Boilers;Industrial;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
VT	50019	10200908	262	7	24	Use SCC=102009XX profiles	External Combustion Boilers;Industrial;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
VT	50021	10200908	262	7	24	Use SCC=102009XX profiles	External Combustion Boilers;Industrial;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
VT	50017	10300908	262	7	24	Use SCC=103009XX profiles	External Combustion Boilers;Commercial/Institutional;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
PA	42009	20200299	262	7	24	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42029	20200299	262	7	24	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42045	20200299	262	7	24	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42061	20200299	262	7	24	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42067	20200299	262	7	24	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42015	20300299	262	7	24	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42029	20300299	262	7	24	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42037	20300299	262	7	24	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42071	20300299	262	7	24	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42011	28888899	262	7	24	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
PA	42123	28888899	262	7	24	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
PA	42123	28888899	262	7	24	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
PA	42129	28888899	262	7	24	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
MD	24031	30500261	262	7	24	Use SCC=30500260 profile	Industrial Processes;Mineral Products;Asphalt Concrete;Drum Mix Plant: Rotary Drum Dryer/Mixer, Waste/Drain/#6 Oil-Fired

Table VII-2 (continued)

State	FIPS	SCC	Recommended profiles			Method of assignment	SCC Description (Complete description not always available)
			Monthly	Weekly	Diurnal		
NY	36055	31603001	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Substrate Preparation;Extrusion Operations
NY	36055	31603002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Substrate Preparation;Film Support Operations
NY	36055	31604001	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Chemical Preparation;Chemical Manufacturing
NY	36055	31604002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Chemical Preparation;Emulsion Making Operations
NY	36055	31604003	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Chemical Preparation;Chemical Mixing Operations
NY	36055	31605001	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Surface Treatments;Surface Coating Operations
NY	36055	31605002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Surface Treatments;Grid Ionizers
NY	36055	31605003	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Surface Treatments;Corona Discharge Treatment
NY	36055	31606001	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Finishing Operations;General Film Manufacturing
NY	36055	31606002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Finishing Operations;Cutting/Slitting Operations
PA	42101	31606002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Finishing Operations;Cutting/Slitting Operations
NY	36055	31612001	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Cleaning Operations;Tank Cleaning Operations
NY	36055	31612002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Cleaning Operations;General Cleaning Operations
NY	36055	31613002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Storage Operations;General Storage Operations

Table VII-2 (continued)

State	FIPS	SCC	Recommended profiles			Method of assignment	SCC Description (Complete description not always available)
			Monthly	Weekly	Diurnal		
NY	36055	31614001	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Material Transfer Operations;Filling Operations (non petroleum)
NY	36055	31614002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Material Transfer Operations;Transfer of Chemicals
NY	36055	31615001	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Separation Processes;Recovery Operations
NY	36055	31615003	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Separation Processes;Distillation Operations
NY	36055	31616002	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;General Process Tank Operations
NY	36055	31616003	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;Miscellaneous Manufacturing Operations
NY	36055	31616004	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;Paint Spraying Operations
NY	36055	31616006	262	7	24	Use SIC=3861 and SIC=2796 as guidance and evaluate specific sources	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;Chemical Weighing Operations
PA	Numerous counties	39000698	262	7	24	Use SCC=39000699 profile	Industrial Processes;In-process Fuel Use;Natural Gas;Unknown
NJ	Numerous counties	39999901	262	7	24	Use SCC=399999XX profiles	Industrial Processes;Miscellaneous Manufacturing Industries;Miscellaneous Industrial Processes;Unknown
PA	42015	40202598	266	7	16	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42017	40202598	266	7	16	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42091	40202598	266	7	16	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42095	40202598	266	7	16	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42097	40202598	266	7	16	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42013	40400299	262	7	24	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown
PA	42041	40400299	262	7	24	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown

Table VII-2 (continued)

State	FIPS	SCC	Recommended profiles			Method of assignment	SCC Description (Complete description not always available)
			Monthly	Weekly	Diurnal		
PA	42045	40400299	262	7	24	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown
PA	42071	40400299	262	7	24	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown

Table VII-3. Unknown SCCs in the MANE-VU Point Source Inventory

State	FIPS	SCC	Description
PA	42101	24950002	Need more info: Unknown SCC
PA	42061	40500299	Need more info:Printing/Publishing; General
PA	42091	40500299	Need more info:Printing/Publishing; General
PA	42133	40500299	Need more info:Printing/Publishing; General

Table VII-4. Area Source Temporal Cross-Reference Updates

SCC	SCC description	SMOKE Default profile			New MANE-VU profile		
		Monthly	Weekly	Diurnal	Monthly	Weekly	Diurnal
30502713	Industrial Processes;Mineral Products;Industrial Sand and Gravel;Screening: Size Classification	262	7	24	262	5	12
30502760	Industrial Processes;Mineral Products;Industrial Sand and Gravel;Sand Handling, Transfer, and Storage	262	7	24	262	5	12
2302000000	Industrial Processes;Food and Kindred Products: SIC 20;All Processes;Total	262	7	26	262	7	250
2302050000	Industrial Processes;Food and Kindred Products: SIC 20;Bakery Products;Total	262	7	26	262	5	26
2305000000	Industrial Processes;Mineral Processes: SIC 32;All Processes;Total	262	7	26	262	5	10
2309100010	Industrial Processes;Fabricated Metals: SIC 34;Coating, Engraving, and Allied Services;Electroplating	262	7	26	262	5	10
2311010000	Industrial Processes;Construction: SIC 15 - 17;General Building Construction;Total	262	7	26	262	5	12
2311020000	Industrial Processes;Construction: SIC 15 - 17;Heavy Construction;Total	262	7	26	262	5	12
2311030000	Industrial Processes;Construction: SIC 15 - 17;Road Construction;Total	262	7	26	262	5	12
2325000000	Industrial Processes;Mining and Quarrying: SIC 14;All Processes;Total	262	7	26	262	5	10
2399000000	Industrial Processes;Industrial Processes: NEC;Industrial Processes: NEC;Total	262	7	26	262	5	10
2399010000	Industrial Processes; Industrial Refrigeration; Refrigerant Losses; All Processes	262	7	26	262	5	10
2401015000	Solvent Utilization;Surface Coating;Factory Finished Wood: SIC 2426 thru 242;Total: All Solvent Types	173	7	26	173	5	26
2401020000	Solvent Utilization;Surface Coating;Wood Furniture: SIC 25;Total: All Solvent Types	287	7	26	287	5	26
2401025000	Solvent Utilization;Surface Coating;Metal Furniture: SIC 25;Total: All Solvent Types	287	7	26	287	5	26
2401030000	Solvent Utilization;Surface Coating;Paper: SIC 26;Total: All Solvent Types	257	7	26	257	5	26
2401040000	Solvent Utilization;Surface Coating;Metal Cans: SIC 341;Total: All Solvent Types	253	7	26	253	5	26
2401045000	Solvent Utilization;Surface Coating;Metal Coils: SIC 3498;Total: All Solvent Types	253	7	26	253	5	26
2401050000	Solvent Utilization;Surface Coating;Miscellaneous Finished Metals: SIC 34 - (341 + 3498);Total: All Solvent Types	253	7	26	253	5	26

Table VII-4 (continued)

SCC	SCC description	SMOKE Default profile			New MANE-VU profile		
		Monthly	Weekly	Diurnal	Monthly	Weekly	Diurnal
2401055000	Solvent Utilization;Surface Coating;Machinery and Equipment: SIC 35;Total: All Solvent Types	253	7	26	253	5	26
2401060000	Solvent Utilization;Surface Coating;Large Appliances: SIC 363;Total: All Solvent Types	262	7	26	262	5	26
2401065000	Solvent Utilization;Surface Coating;Electronic and Other Electrical: SIC 36 - 363;Total: All Solvent Types	253	7	26	253	5	26
2401070000	Solvent Utilization;Surface Coating;Motor Vehicles: SIC 371;Total: All Solvent Types	140	7	26	140	5	26
2401075000	Solvent Utilization;Surface Coating;Aircraft: SIC 372;Total: All Solvent Types	169	7	26	169	5	26
2401080000	Solvent Utilization;Surface Coating;Marine: SIC 373;Total: All Solvent Types	266	7	26	266	5	26
2401085000	Solvent Utilization;Surface Coating;Railroad: SIC 374;Total: All Solvent Types	169	7	26	169	5	26
2401090000	Solvent Utilization;Surface Coating;Miscellaneous Manufacturing;Total: All Solvent Types	260	7	26	260	5	26
2401090999	Solvent Utilization;Surface Coating;Miscellaneous Manufacturing;Solvents: NEC	260	7	26	260	5	26
2401200000	Solvent Utilization;Surface Coating;Other Special Purpose Coatings;Total: All Solvent Types	260	7	26	260	5	26
2401990000	Solvent Utilization;Surface Coating;All Surface Coating Categories;Total: All Solvent Types	260	7	26	260	5	26
2401990999	Solvent Utilization;Surface Coating;All Surface Coating Categories;Solvents: NEC	260	7	26	260	5	26
2415000000	Solvent Utilization;Degreasing;All Processes/All Industries;Total: All Solvent Types	253	7	26	253	5	26
2415020000	Solvent Utilization;Degreasing;Fabricated Metal Products (SIC 34): All Processes;Total: All Solvent Types	253	7	26	253	5	12
2415025000	Solvent Utilization;Degreasing;Industrial Machinery and Equipment (SIC 35): All Processes;Total: All Solvent Types	253	7	26	253	5	12
2415030000	Solvent Utilization;Degreasing;Electronic and Other Elec. (SIC 36): All Processes;Total: All Solvent Types	253	7	26	253	5	12
2415035000	Solvent Utilization;Degreasing;Transportation Equipment (SIC 37): All Processes;Total: All Solvent Types	253	7	26	253	5	12
2415045000	Solvent Utilization;Degreasing;Miscellaneous Manufacturing (SIC 39): All Processes;Total: All Solvent Types	253	7	26	253	5	12
2415055000	Solvent Utilization;Degreasing;Automotive Dealers (SIC 55): All Processes;Total: All Solvent Types	253	7	26	253	5	12
2415060000	Solvent Utilization;Degreasing;Miscellaneous Repair Services (SIC 76): All Processes;Total: All Solvent Types	253	7	26	253	5	12

Table VII-4 (continued)

SCC	SCC description	SMOKE Default profile			New MANE-VU profile		
		Monthly	Weekly	Diurnal	Monthly	Weekly	Diurnal
2415065000	Solvent Utilization;Degreasing;Auto Repair Services (SIC 75): All Processes;Total: All Solvent Types	253	7	26	253	6	12
2415100000	Solvent Utilization;Degreasing;All Industries: Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415105000	Solvent Utilization;Degreasing;Furniture and Fixtures (SIC 25): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415110000	Solvent Utilization;Degreasing;Primary Metal Industries (SIC 33): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415120000	Solvent Utilization;Degreasing;Fabricated Metal Products (SIC 34): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415125000	Solvent Utilization;Degreasing;Industrial Machinery and Equipment (SIC 35): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415130000	Solvent Utilization;Degreasing;Electronic and Other Elec. (SIC 36): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415135000	Solvent Utilization;Degreasing;Transportation Equipment (SIC 37): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415140000	Solvent Utilization;Degreasing;Instruments and Related Products (SIC 38): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415145000	Solvent Utilization;Degreasing;Miscellaneous Manufacturing (SIC 39): Open Top Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415200000	Solvent Utilization;Degreasing;All Industries: Conveyerized Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415230000	Solvent Utilization;Degreasing;Electronic and Other Elec. (SIC 36): Conveyerized Degreasing;Total: All Solvent Types	253	7	26	253	5	12
2415300000	Solvent Utilization;Degreasing;All Industries: Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415305000	Solvent Utilization;Degreasing;Furniture and Fixtures (SIC 25): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415310000	Solvent Utilization;Degreasing;Primary Metal Industries (SIC 33): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415320000	Solvent Utilization;Degreasing;Fabricated Metal Products (SIC 34): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415325000	Solvent Utilization;Degreasing;Industrial Machinery and Equipment (SIC 35): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415330000	Solvent Utilization;Degreasing;Electronic and Other Elec. (SIC 36): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12

Table VII-4 (continued)

SCC	SCC description	SMOKE Default profile			New MANE-VU profile		
		Monthly	Weekly	Diurnal	Monthly	Weekly	Diurnal
2415335000	Solvent Utilization;Degreasing;Transportation Equipment (SIC 37): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415340000	Solvent Utilization;Degreasing;Instruments and Related Products (SIC 38): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415345000	Solvent Utilization;Degreasing;Miscellaneous Manufacturing (SIC 39): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415355000	Solvent Utilization;Degreasing;Automotive Dealers (SIC 55): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2415360000	Solvent Utilization;Degreasing;Auto Repair Services (SIC 75): Cold Cleaning;Total: All Solvent Types	253	7	26	253	6	12
2415365000	Solvent Utilization;Degreasing;Miscellaneous Repair Services (SIC 76): Cold Cleaning;Total: All Solvent Types	253	7	26	253	5	12
2425000000	Solvent Utilization;Graphic Arts;All Processes;Total: All Solvent Types	257	7	26	257	5	26
2425010000	Solvent Utilization;Graphic Arts;Lithography;Total: All Solvent Types	257	7	26	257	5	26
2425020000	Solvent Utilization;Graphic Arts;Letterpress;Total: All Solvent Types	257	7	26	257	5	26
2425030000	Solvent Utilization;Graphic Arts;Rotogravure;Total: All Solvent Types	262	7	26	262	5	26
2425040000	Solvent Utilization;Graphic Arts;Flexography;Total: All Solvent Types	257	7	26	257	5	26
2430000000	Solvent Utilization;Rubber/Plastics;All Processes;Total: All Solvent Types	200	7	26	200	5	26
2601010000	Waste Disposal, Treatment, and Recovery;On-site Incineration;Industrial;Total	262	7	26	262	5	12
2601020000	Waste Disposal, Treatment, and Recovery;On-site Incineration;Commercial/Institutional;Total	262	7	26	262	5	12
2610010000	Waste Disposal, Treatment, and Recovery;Open Burning;Industrial;Total	262	7	26	262	5	12
2610020000	Waste Disposal, Treatment, and Recovery;Open Burning;Commercial/Institutional;Total	262	7	26	262	5	12
2805020000	Miscellaneous Area Sources;Agriculture Production - Livestock;Cattle and Calves Waste Emissions;Total	489	7	26	1500	7	26
2805025000	Miscellaneous Area Sources;Agriculture Production - Livestock;Hogs and Pigs Waste Emissions;Total	489	7	26	1500	7	26
2805030000	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry Waste Emissions;Total	489	7	26	1500	7	26

Table VII-4 (continued)

SCC	SCC description	SMOKE Default profile			New MANE-VU profile		
		Monthly	Weekly	Diurnal	Monthly	Weekly	Diurnal
2805035000	Miscellaneous Area Sources;Agriculture Production - Livestock;Horses and Ponies Waste Emissions;Total	262	7	26	1500	7	26
2805040000	Miscellaneous Area Sources;Agriculture Production - Livestock;Sheep and Lambs Waste Emissions;Total	489	7	26	1500	7	26
2805045001	Miscellaneous Area Sources;Agriculture Production - Livestock;Goats Waste Emissions;Total	489	7	26	262	7	24
2810015000	Miscellaneous Area Sources;Other Combustion;Prescribed Burning for Forest Management;Total	14	7	24	3	11	13

Table VII-5. Area Source Temporal Cross-Reference Additions

SCC	Description	Month	Week	Diurnal
2104008002	Stationary Source Fuel Combustion;Residential;Wood;Fireplaces: Insert; non-EPA certified	485	7	26
2104008003	Stationary Source Fuel Combustion;Residential;Wood;Fireplaces: Insert; EPA certified; non-catalytic	485	7	26
2104008004	Stationary Source Fuel Combustion;Residential;Wood;Fireplaces: Insert; EPA certified; catalytic	485	7	26
2302002100	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Charbroiling;Conveyorized Charbroiling	262	7	26
2302002200	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Charbroiling;Under-fired Charbroiling	262	7	26
2302003000	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Total	262	7	26
2302003100	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Flat Griddle Frying	262	7	26
2302003200	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Clamshell Griddle Frying	262	7	26
2302080002	Industrial Processes;Food and Kindred Products: SIC 20;Miscellaneous Food and Kindred Products;Refrigeration	262	7	26
2401002000	Solvent Utilization;Surface Coating;Architectural Coatings - Solvent-based;Total: All Solvent Types	467	7	26
2401003000	Solvent Utilization;Surface Coating;Architectural Coatings - Water-based;Total: All Solvent Types	467	7	26
2401102000	Solvent Utilization;Surface Coating;Industrial Maintenance Coatings-Solvent-based;Total: All Solvent Types	500	5	26
2401103000	Solvent Utilization;Surface Coating;Industrial Maintenance Coatings-Water-based;Total: All Solvent Types	500	5	26
2415270000	Solvent Utilization;Degreasing;All Manufacturing (except SIC 36): Vapor and In-Line Cleaning;Total: All Solvent Types	253	5	12
2415280000	Solvent Utilization;Degreasing;Electronic and Other Elec. (SIC 36): Vapor and In-Line Cleaning;Total: All Solvent Types	253	5	12
2415370000	Solvent Utilization;Degreasing;Transportation Equipment Repair Services: Cold Cleaning;Total: All Solvent Types	253	5	12
2415380000	Solvent Utilization;Degreasing;All Manufacturing: Cold Cleaning;Total: All Solvent Types	253	5	12
2610000400	Waste Disposal, Treatment, and Recovery;Open Burning;All Categories;Yard Waste - Brush Species Unspecified	262	7	26
2610000500	Waste Disposal, Treatment, and Recovery;Open Burning;All Categories;Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	262	7	26
2610040400	Waste Disposal, Treatment, and Recovery;Open Burning;Municipal (collected from residences, parks,other for central burn);Yard Waste - Total	262	7	26
2630020010	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Wastewater Treatment Processes Total	262	7	24

Table VII-5 (continued)

SCC	Description	Month	Week	Diurnal
2630020020	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Biosolids Processes Total	262	7	24
2630020030	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Land Application - Digested Sludge	262	7	24
2630050000	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Land Application - Digested Sludge	262	7	24
2680001000	Waste Disposal, Treatment, and Recovery;Composting;100% Biosolids (e.g., sewage sludge, manure, mixtures of these matls);All Processes	262	7	26
2680002000	Waste Disposal, Treatment, and Recovery;Composting;Mixed Waste (e.g., a 50:50 mixture of biosolids and green wastes);All Processes	262	7	26
2801700011	Miscellaneous Area Sources;Agriculture Production - Crops;Fertilizer Application;Calcium Ammonium Nitrate	998	7	26
2801700012	Miscellaneous Area Sources;Agriculture Production - Crops;Fertilizer Application;Potassium Nitrate	998	7	26
2801700013	Miscellaneous Area Sources;Agriculture Production - Crops;Fertilizer Application;Diammonium Phosphate	998	7	26
2801700014	Miscellaneous Area Sources;Agriculture Production - Crops;Fertilizer Application;Monoammonium Phosphate	998	7	26
2801700015	Miscellaneous Area Sources;Agriculture Production - Crops;Fertilizer Application;Liquid Ammonium Polyphosphate	998	7	26
2801700099	Miscellaneous Area Sources;Agriculture Production - Crops;Fertilizer Application;Miscellaneous Fertilizers	998	7	26
2805001100	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef cattle - finishing operations on feedlots (drylots);Confinement	1500	7	26
2805001200	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef cattle - finishing operations on feedlots (drylots);Manure handling and storage	1500	7	26
2805001300	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef cattle - finishing operations on feedlots (drylots);Land application of manure	1500	7	26
2805002000	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef Cattle Composite; Not Elsewhere Classified	1500	7	26
2805003100	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef cattle - finishing operations on pasture/range;Confinement	1500	7	26
2805007100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with dry manure management systems;Confinement	1500	7	26
2805007200	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - layers with dry manure management systems;Management	1500	7	26
2805007300	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with dry manure management systems;Land application of manure	262	7	24
2805007330	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - layers with dry manure management systems; Land application	1500	7	26
2805007340	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - layers with dry manure management systems; Land application	1500	7	26

Table VII-5 (continued)

SCC	Description	Month	Week	Diurnal
2805008100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with wet manure management systems;Confinement	1500	7	26
2805008200	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with wet manure management systems;Manure handling and storage	1500	7	26
2805008300	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with wet manure management systems;Land application of manure	1500	7	26
2805009100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - broilers;Confinement	1500	7	26
2805009300	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - broilers;Land application of manure	1500	7	26
2805010100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - turkeys;Confinement	262	7	24
2805010200	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - turkeys;Manure handling and storage	262	7	24
2805010300	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - turkeys;Land application of manure	1500	7	26
2805018000	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle composite; Not Elsewhere Classified	1501	7	26
2805019100	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - flush dairy;Confinement	1500	7	26
2805019200	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - flush dairy;Manure handling and storage	1500	7	26
2805019300	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - flush dairy;Land application of manure	1500	7	26
2805020001	Miscellaneous Area Sources;Agriculture Production - Livestock;Cattle and Calves Waste Emissions;Milk Cows	1500	7	26
2805020002	Miscellaneous Area Sources;Agriculture Production - Livestock;Cattle and Calves Waste Emissions;Beef Cows	1500	7	26
2805020003	Miscellaneous Area Sources;Agriculture Production - Livestock;Cattle and Calves Waste Emissions;Heifers and Heifer Calves	1500	7	26
2805021300	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - scrape dairy;Land application of manure	1500	7	26
2805022100	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - deep pit dairy;Confinement	1500	7	26
2805022200	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - deep pit dairy;Manure handling and storage	1500	7	26
2805022300	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - deep pit dairy;Land application of manure	1500	7	26
2805023300	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - drylot/pasture dairy;Land application of manure	1500	7	26
2805030001	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry Waste Emissions;Pullet Chicks and Pullets less than 13 weeks old	1500	7	26

Table VII-5 (continued)

SCC	Description	Month	Week	Diurnal
2805030002	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry Waste Emissions;Pullets 13 weeks old and older but less than 20 weeks	1500	7	26
2805030003	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry Waste Emissions;Layers	1500	7	26
2805030004	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry Waste Emissions;Broilers	1500	7	26
2805030008	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry Waste Emissions;Geese	1500	7	26
2805039100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons;Confinement	1500	7	26
2805039200	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons;Manure handling and storage	1500	7	26
2805039300	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons;Land application of manure	1500	7	26
2805045000	Miscellaneous Area Sources;Agriculture Production - Livestock;Goats Waste Emissions;Not Elsewhere Classified	1500	7	26
2805045002	Miscellaneous Area Sources;Agriculture Production - Livestock;Goats Waste Emissions;Angora Goats	1500	7	26
2805045003	Miscellaneous Area Sources;Agriculture Production - Livestock;Goats Waste Emissions;Milk Goats	1500	7	26
2805047100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - deep-pit house operations;Confinement	1500	7	26
2805047300	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - deep-pit house operations;Land application of manure	1500	7	26
2805053100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - outdoor operations; Confinement	1500	7	26
2805054000	Miscellaneous Area Sources;Agricultural Production - Livestock;"Mules; Donkeys; and Burros Waste Emissions";Not Elsewhere Classified	262	7	24
2806010000	Miscellaneous Area Sources;Domestic Animals Waste Emissions;Cats;Total	262	7	24
2806015000	Miscellaneous Area Sources;Domestic Animals Waste Emissions;Dogs;Total	262	7	24
2807020001	Miscellaneous Area Sources;Wild Animals Waste Emissions;Bears;Black Bears	262	7	26
2807020002	Miscellaneous Area Sources;Wild Animals Waste Emissions;Bears;Grizzly Bears	262	7	26
2807025000	Miscellaneous Area Sources;Wild Animals Waste Emissions;Elk;Total	262	7	26
2807030000	Miscellaneous Area Sources;Wild Animals Waste Emissions;Deer;Total	262	7	26
2807040000	Miscellaneous Area Sources;Wild Animals Waste Emissions;Birds;Total	262	7	26
2810060100	Miscellaneous Area Sources;Other Combustion;Cremation;Humans	262	7	24
2870000001	Miscellaneous Area Sources;Humans;Respiration and Perspiration;Total	262	7	24
2870000002	Miscellaneous Area Sources;Humans;Infant Diapered Waste;Total	262	7	24
2870000011	Miscellaneous Area Sources;Domestic Activity;Household Products;Total	262	7	24

Table VII-5 (continued)

SCC	Description	Month	Week	Diurnal
2870000015	Miscellaneous Area Sources;Domestic Activity;Non-agricultural Fertilizers;Total	3	7	24
2870000021	Miscellaneous Area Sources;Domestic Animals;Dogs;Total	262	7	24
2870000022	Miscellaneous Area Sources;Domestic Animals;Cats;Total	262	7	24
2870000031	Miscellaneous Area Sources;Wild Animals;Deer;Total	262	7	24

Table VII-6. Area Source Temporal Cross-Reference and Profile Additions for the MANE-VU Inventory

SCC	Description	Month	Week	Diurnal	FIPS
2102002000	Stationary Source Fuel Combustion;Industrial;Bituminous/Subbituminous Coal;Total: All Boiler Types	1726	8	26	10000
2102006000	Stationary Source Fuel Combustion;Industrial;Natural Gas;Total: Boilers and IC Engines	1727	8	26	10000
2102007000	Stationary Source Fuel Combustion;Industrial;Liquified Petroleum Gas (LPG);Total: All Boiler Types	1727	8	26	10000
2103001000	Stationary Source Fuel Combustion;Commercial/Institutional;Anthracite Coal;Total: All Boiler Types	1720	8	26	10000
2103004000	Stationary Source Fuel Combustion;Commercial/Institutional;Distillate Oil;Total: Boilers and IC Engines	1721	8	26	10000
2103006000	Stationary Source Fuel Combustion;Commercial/Institutional;Natural Gas;Total: Boilers and IC Engines	1722	8	26	10000
2103007000	Stationary Source Fuel Combustion;Commercial/Institutional;Liquified Petroleum Gas (LPG);Total: All Combustor Types	1723	8	26	10000
2104002000	Stationary Source Fuel Combustion;Residential;Bituminous/Subbituminous Coal;Total: All Combustor Types	1732	7	26	10000
2104004000	Stationary Source Fuel Combustion;Residential;Distillate Oil;Total: All Combustor Types	1733	7	26	10000
2104006000	Stationary Source Fuel Combustion;Residential;Natural Gas;Total: All Combustor Types	1734	7	26	10000
2104007000	Stationary Source Fuel Combustion;Residential;Liquified Petroleum Gas (LPG);Total: All Combustor Types	1735	7	26	10000
2104008000	Stationary Source Fuel Combustion;Residential;Wood;Total: Woodstoves and Fireplaces	1740	2007	2014	10001
2104008000	Stationary Source Fuel Combustion;Residential;Wood;Total: Woodstoves and Fireplaces	1741	2008	2015	10003
2104008000	Stationary Source Fuel Combustion;Residential;Wood;Total: Woodstoves and Fireplaces	1742	2009	2016	10005
2104008000	Stationary Source Fuel Combustion;Residential;Wood;Total: Woodstoves and Fireplaces	1742	2009	2016	10005
2104008070	Stationary Source Fuel Combustion;Residential;Wood;Outdoor Wood Burning Equipment;	1743	2010	2017	10001
2104008070	Stationary Source Fuel Combustion;Residential;Wood;Outdoor Wood Burning Equipment;	1744	2011	2017	10003
2104008070	Stationary Source Fuel Combustion;Residential;Wood;Outdoor Wood Burning Equipment;	1745	2012	2017	10005
2104011000	Stationary Source Fuel Combustion;Residential;Kerosene;Total: All Heater Types	1736	7	26	10000
2294000000	Mobile Sources;Paved Roads;All Paved Roads;Total: Fugitives	1729	7	26	10000
2302002100	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Charbroiling;Conveyorized Charbroiling	262	7	26	10000
2302002100	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Charbroiling;Conveyorized Charbroiling	262	7	26	10000
2302002200	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Charbroiling;Under-fired Charbroiling	262	7	26	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2302002200	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Charbroiling;Under-fired Charbroiling	262	7	26	10000
2302003000	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Total	262	7	26	10000
2302003000	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Total	262	7	26	10000
2302003100	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Flat Griddle Frying	262	7	26	10000
2302003100	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Flat Griddle Frying	262	7	26	10000
2302003200	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Clamshell Griddle Frying	262	7	26	10000
2302003200	Industrial Processes;Food and Kindred Products: SIC 20;Commercial Deep Fat Frying;Clamshell Griddle Frying	262	7	26	10000
2311030000	Industrial Processes;Construction: SIC 15 - 17;Road Construction;Total	262	7	9	10000
2401002000	Solvent Utilization;Surface Coating;Architectural Coatings - Solvent-based;Total: All Solvent Types	467	7	26	-9
2401002000	Solvent Utilization;Surface Coating;Architectural Coatings - Solvent-based;Total: All Solvent Types	500	20	27	10000
2401003000	Solvent Utilization;Surface Coating;Architectural Coatings - Water-based;Total: All Solvent Types	467	7	26	-9
2401003000	Solvent Utilization;Surface Coating;Architectural Coatings - Water-based;Total: All Solvent Types	500	20	27	10000
2401005000	Solvent Utilization;Surface Coating;Auto Refinishing: SIC 7532;Total: All Solvent Types	1702	5	27	10000
2401005500	Solvent Utilization;Surface Coating;Auto Refinishing: SIC 7532;Surface Preparation Solvents	1702	5	27	10000
2401005600	Solvent Utilization;Surface Coating;Auto Refinishing: SIC 7532;Primers	1702	5	27	10000
2401005700	Solvent Utilization;Surface Coating;Auto Refinishing: SIC 7532;Top Coats	1702	5	27	10000
2401005800	Solvent Utilization;Surface Coating;Auto Refinishing: SIC 7532;Clean-up Solvents	1702	5	27	10000
2401005800	Solvent Utilization;Surface Coating;Auto Refinishing: SIC 7532;Clean-up Solvents	1702	5	27	10001
2401008000	Solvent Utilization;Surface Coating;Traffic Markings;Total: All Solvent Types	1700	7	26	-9
2401008000	Solvent Utilization;Surface Coating;Traffic Markings;Total: All Solvent Types	1700	5	26	10000
2401008999	Solvent Utilization;Surface Coating;Traffic Markings;Solvents: NEC	1700	7	26	-9
2401102000	Solvent Utilization;Surface Coating;Industrial Maintenance Coatings-Solvent-based;Total: All Solvent Types	500	5	26	10000
2401103000	Solvent Utilization;Surface Coating;Industrial Maintenance Coatings-Water-based;Total: All Solvent Types	500	5	26	10000
2415100000	Solvent Utilization;Degreasing;All Industries: Open Top Degreasing;Total: All Solvent Types	262	6	5	10000
2415130000	Solvent Utilization;Degreasing;Electronic and Other Elec. (SIC 36): Open Top Degreasing;Total: All Solvent Types	262	6	5	10000
2415300000	Solvent Utilization;Degreasing;All Industries: Cold Cleaning;Total: All Solvent Types	262	6	5	10000
2415360000	Solvent Utilization;Degreasing;Auto Repair Services (SIC 75): Cold Cleaning;Total: All Solvent Types	262	5	5	10000
2461021000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Cutback Asphalt;Total: All Solvent Types	1712	7	26	10001
2461021000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Cutback Asphalt;Total: All Solvent Types	1714	7	26	10001
2461021000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Cutback Asphalt;Total: All Solvent Types	1713	7	26	10003

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2461021000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Cutback Asphalt;Total: All Solvent Types	1712	7	26	10003
2461021000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Cutback Asphalt;Total: All Solvent Types	1714	7	26	10005
2461021000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Cutback Asphalt;Total: All Solvent Types	1713	7	26	10005
2461022000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Emulsified Asphalt;Total: All Solvent Types	1709	7	26	10001
2461022000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Emulsified Asphalt;Total: All Solvent Types	1711	7	26	10001
2461022000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Emulsified Asphalt;Total: All Solvent Types	1710	7	26	10003
2461022000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Emulsified Asphalt;Total: All Solvent Types	1709	7	26	10003
2461022000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Emulsified Asphalt;Total: All Solvent Types	1711	7	26	10005
2461022000	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Emulsified Asphalt;Total: All Solvent Types	1710	7	26	10005
2461850001	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Pesticide Application: Agricultural;Herbicides, Corn	536	7	26	10000
2461850005	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Pesticide Application: Agricultural;Herbicides, Soy Beans	536	7	26	10000
2461850006	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Pesticide Application: Agricultural;Herbicides, Hay & Grains	536	7	26	10000
2461850051	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Pesticide Application: Agricultural;Other Pesticides, Corn	536	7	26	10000
2461850055	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Pesticide Application: Agricultural;Other Pesticides, Soy Beans	536	7	26	10000
2461850056	Solvent Utilization;Miscellaneous Non-industrial: Commercial;Pesticide Application: Agricultural;Other Pesticides, Hay & Grains	536	7	26	10000
2501011010	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Vapor Losses	1701	7	26	10000
2501011010	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Vapor Losses	1701	7	26	10000
2501011011	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Permeation	1701	7	26	10000
2501011011	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Permeation	1701	7	26	10000
2501011012	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Diurnal	1701	7	26	10000
2501011012	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Diurnal	1701	7	26	10000
2501011015	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Spillage	1701	7	26	10000
2501011015	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Spillage	1701	7	26	10000
2501011016	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Transport	1701	7	26	10000
2501011016	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Residential;Transport	1701	7	26	10000
2501012010	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Vapor Losses	1701	7	26	10000
2501012010	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Vapor Losses	1701	7	26	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2501012011	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Permeation	1701	7	26	10000
2501012011	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Permeation	1701	7	26	10000
2501012012	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Diurnal	1701	7	26	10000
2501012012	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Diurnal	1701	7	26	10000
2501012015	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Spillage	1701	7	26	10000
2501012015	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Spillage	1701	7	26	10000
2501012016	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Transport	1701	7	26	10000
2501012016	Storage and Transport;Petroleum and Petroleum Product Storage;Portable Containers: Commercial;Transport	1701	7	26	10000
2501060000	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Total: All Gasoline/All Processes	1701	7	26	-9
2501060050	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 1: Total	1701	7	26	-9
2501060051	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 1: Submerged Filling	1701	7	26	-9
2501060052	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 1: Splash Filling	1701	7	26	-9
2501060053	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 1: Balanced Submerged Filling	1701	7	26	-9
2501060100	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 2: Total	1701	7	26	-9
2501060100	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 2: Total	1724	7	26	10000
2501060101	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 2: Displacement Loss/Uncontrolled	1701	7	26	-9
2501060102	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 2: Displacement Loss/Controlled	1701	7	26	-9
2501060103	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 2: Spillage	1701	7	26	-9
2501060201	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Underground Tank: Breathing and Emptying	1701	7	26	-9
2501060204	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 2: Off-Highway Equipment Displacement Loss/Controlled	1701	7	26	10000
2501060205	Storage and Transport;Petroleum and Petroleum Product Storage;Gasoline Service Stations;Stage 2: Off-Highway Equipment Spillage	1701	7	26	10000
2501080050	Storage and Transport;Petroleum and Petroleum Product Storage;Airports : Aviation Gasoline;Stage 1: Total	1701	7	26	10000
2501080102	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Aviation Gasoline;Stage 2: Displacement Loss	1701	7	26	10000
2501080103	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Aviation Gasoline;Stage 2: Spillage	1701	7	26	10000
2501080201	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Aviation Gasoline;Underground Tank: Breathing and Emptying	1701	7	26	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2501090050	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Jet A or JP-8;Stage 1: Total	1701	7	26	10000
2501090060	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Jet A or JP-8;Stage 2: Total	1701	7	26	10000
2501090070	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Jet Naphtha or JP-4;Stage 1: Total	1701	7	26	10000
2501090080	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Jet Naphtha or JP-4;Stage 2: Total	1701	7	26	10000
2501090101	Storage and Transport;Petroleum and Petroleum Product Storage;Airports: Jet A or JP-8;Stage 2: Total	1701	7	26	10000
2501090102	Storage and Transport;Petroleum and Petroleum Product Storage;Marinas: Gasoline;Stage 2: Displacement Loss	1701	7	26	10000
2501090103	Storage and Transport;Petroleum and Petroleum Product Storage;Marinas: Gasoline;Stage 2: Spillage	1701	7	26	10000
2501090201	Storage and Transport;Petroleum and Petroleum Product Storage;Marinas: Gasoline;Underground Tank: Emptying and Breathing	1701	7	26	10000
2505000000	Storage and Transport;Petroleum and Petroleum Product Transport;All Transport Types;Total: All Products	1701	7	26	-9
2610010000	Waste Disposal, Treatment, and Recovery;Open Burning;Industrial;Total	262	9	2013	10000
2630020000	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Total Processed	262	7	24	10000
2630020010	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Wastewater Treatment Processes Total	262	7	24	10000
2630020020	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Biosolids Processes Total	262	7	24	10000
2630020030	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Land Application - Digested Sludge	262	7	24	10000
2630050000	Waste Disposal, Treatment, and Recovery;Wastewater Treatment;Public Owned;Land Application - Digested Sludge	262	7	24	10000
2680001000	Waste Disposal, Treatment, and Recovery;Composting;100% Biosolids (e.g., sewage sludge, manure, mixtures of these matls);All Processes	262	7	26	10000
2730100000	Natural Sources;Geogenic;Wind Erosion;Total	1704	7	26	10000
2801001001	Miscellaneous Area Sources;Agriculture Production - Crops;Corn;Land preparation and cultivation	1703	20	132	10000
2801001005	Miscellaneous Area Sources;Agriculture Production - Crops;Wheat;Land preparation and cultivation	1703	20	132	10000
2801001009	Miscellaneous Area Sources;Agriculture Production - Crops;Barley;Land preparation and cultivation	1703	20	132	10000
2801001013	Miscellaneous Area Sources;Agriculture Production - Crops;Soybeans;Land preparation and cultivation	1703	20	132	10000
2801001017	Miscellaneous Area Sources;Agriculture Production - Crops;Hay/Alfalfa;Land preparation and cultivation	1703	20	132	10000
2801001021	Miscellaneous Area Sources;Agriculture Production - Crops;Vegetables;Land preparation and cultivation	1703	20	132	10000
2801002001	Miscellaneous Area Sources;Agriculture Production - Crops;Corn;Harvesting	1703	20	132	10000
2801002002	Miscellaneous Area Sources;Agriculture Production - Crops;Wheat;Harvesting	1703	20	132	10000
2801002003	Miscellaneous Area Sources;Agriculture Production - Crops;Barley;Harvesting	1703	20	132	10000
2801002004	Miscellaneous Area Sources;Agriculture Production - Crops;Soybeans;Harvesting	1703	20	132	10000
2801002005	Miscellaneous Area Sources;Agriculture Production - Crops;Hay/Alfalfa;Harvesting	1703	20	132	10000
2801002006	Miscellaneous Area Sources;Agriculture Production - Crops;Vegetables;Harvesting	1703	20	132	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2801700020	Miscellaneous Area Sources;Agricultural Production - Crops;Fertilizer Application;Corn	1705	7	26	10000
2801700021	Miscellaneous Area Sources;Agricultural Production - Crops;Fertilizer Application;Sorghum	1705	7	26	10000
2801700022	Miscellaneous Area Sources;Agricultural Production - Crops;Fertilizer Application;Wheat	1705	7	26	10000
2801700023	Miscellaneous Area Sources;Agricultural Production - Crops;Fertilizer Application;Barley	1705	7	26	10000
2801700024	Miscellaneous Area Sources;Agricultural Production - Crops;Fertilizer Application;Soybeans	1705	7	26	10000
2801700025	Miscellaneous Area Sources;Agricultural Production - Crops;Fertilizer Application;Hay/Alfalfa	1705	7	26	10000
2801700026	Miscellaneous Area Sources;Agricultural Production - Crops;Fertilizer Application;Vegetables	1705	7	26	10000
2805001100	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef cattle - finishing operations on feedlots (drylots);Confinement	1706	7	24	10000
2805001200	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef cattle - finishing operations on feedlots (drylots);Manure handling	1706	7	24	10000
2805001300	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef cattle - finishing operations on feedlots (drylots);Land application of	1706	7	24	10000
2805001310	Miscellaneous Area Sources;Agricultural Production - Livestock;Beef Cattle - finishing operations on feedlots (drylots);Land Appl	1706	7	24	10000
2805001320	Miscellaneous Area Sources;Agricultural Production - Livestock;Beef Cattle - finishing operations on feedlots (drylots);Land Appl	1706	7	24	10000
2805001330	Miscellaneous Area Sources;Agricultural Production - Livestock;Beef Cattle - finishing operations on feedlots (drylots);Land Appl	1706	7	24	10000
2805001340	Miscellaneous Area Sources;Agricultural Production - Livestock;Beef Cattle - finishing operations on feedlots (drylots);Land Appl	1706	7	24	10000
2805002000	Miscellaneous Area Sources;Agriculture Production - Livestock;Beef Cattle Composite; Total	1706	7	24	10000
2805007100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with dry manure management systems;Confinement	262	7	24	10000
2805007200	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - layers with dry manure management systems;Man	262	7	24	10000
2805007300	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with dry manure management systems;Land applicati	262	7	24	10000
2805007340	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - layers with dry manure management systems;Lan	262	7	24	10000
2805008100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with wet manure management systems;Confinement	262	7	24	10000
2805008200	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - layers with wet manure management systems;Manure handlin	262	7	24	10000
2805008310	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - layers with wet manure management systems;Lan	1708	7	24	10000
2805008320	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - layers with wet manure management systems;Lan	1708	7	24	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2805009100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - broilers;Confinement	262	7	24	10000
2805009200	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - broilers;Manure handling and storage	262	7	24	10000
2805009330	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - broilers;Land Application of solid manure wit	1708	7	24	10000
2805009340	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - broilers;Land Application of solid manure wit	1708	7	24	10000
2805010100	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - turkeys;Confinement	262	7	24	10000
2805010200	Miscellaneous Area Sources;Agriculture Production - Livestock;Poultry production - turkeys;Manure handling and storage	262	7	24	10000
2805010330	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - turkeys;Land Application of solid manure with	1708	7	24	10000
2805010340	Miscellaneous Area Sources;Agricultural Production - Livestock;Poultry Production - turkeys;Land Application of solid manure with	1708	7	24	10000
2805019100	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - flush dairy;Confinement	1706	7	24	10000
2805019200	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - flush dairy;Manure handling and storage	1706	7	24	10000
2805019300	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - flush dairy;Land application of manure	1706	7	24	10000
2805019310	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - flush dairy;Land Application of liquid manure with	1706	7	24	10000
2805019320	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - flush dairy;Land Application of liquid manure witho	1706	7	24	10000
2805019330	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - flush dairy;Land Application of solid manure with i	1706	7	24	10000
2805019340	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - flush dairy;Land Application of solid manure withou	1706	7	24	10000
2805021100	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - scrape dairy;Confinement	1706	7	24	10000
2805021200	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - scrape dairy;Manure handling and storage	1706	7	24	10000
2805021310	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - scrape dairy;Land Application of liquid manure with	1706	7	24	10000
2805021320	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - scrape dairy;Land Application of liquid manure with	1706	7	24	10000
2805021330	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - scrape dairy;Land Application of solid manure with	1706	7	24	10000
2805021340	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - scrape dairy;Land Application of solid manure witho	1706	7	24	10000
2805023100	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - drylot/pasture dairy;Confinement	1706	7	24	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2805023200	Miscellaneous Area Sources;Agriculture Production - Livestock;Dairy cattle - drylot/pasture dairy;Manure handling and storage	1706	7	24	10000
2805023310	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - drylot/pasture dairy;Land Application of liquid man	1706	7	24	10000
2805023320	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - drylot/pasture dairy;Land Application of liquid man	1706	7	24	10000
2805023330	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - drylot/pasture dairy;Land Application of solid manu	1706	7	24	10000
2805023340	Miscellaneous Area Sources;Agricultural Production - Livestock;Dairy Cattle - drylot/pasture dairy;Land Application of solid manu	1706	7	24	10000
2805035000	Miscellaneous Area Sources;Agriculture Production - Livestock;Horses and Ponies Waste Emissions;Total	262	7	24	10000
2805038100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons (unspecified animal age);Confineme	1707	7	24	10000
2805038200	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons (unspecified animal age);Manure ha	1707	7	24	10000
2805038300	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons (unspecified animal age);Land appl	1707	7	24	10000
2805039100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons;Confinement	1707	7	24	10000
2805039200	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - operations with lagoons;Manure handling and storage	1707	7	24	10000
2805039310	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - operations with lagoon (unspecified animal age)	1707	7	24	10000
2805039320	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - operations with lagoon (unspecified animal age)	1707	7	24	10000
2805039330	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - operations with lagoon (unspecified animal age)	1707	7	24	10000
2805039340	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - operations with lagoon (unspecified animal age)	1707	7	24	10000
2805040000	Miscellaneous Area Sources;Agriculture Production - Livestock;Sheep and Lambs Waste Emissions;Total	262	7	24	10000
2805045001	Miscellaneous Area Sources;Agriculture Production - Livestock;Goats Waste Emissions;Total	262	7	24	10000
2805046100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - deep-pit house operations (unspecified animal age);Confine	1707	7	24	10000
2805046300	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - deep-pit house operations (unspecified animal age);Land ap	1707	7	24	10000
2805047100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - deep-pit house operations;Confinement	1707	7	24	10000
2805047200	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - deep pit house operations (unspecified animal a	1707	7	24	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2805047310	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - deep pit house operations (unspecified animal a	1707	7	24	10000
2805047320	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - deep pit house operations (unspecified animal a	1707	7	24	10000
2805047330	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - deep pit house operations (unspecified animal a	1707	7	24	10000
2805047340	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - deep pit house operations (unspecified animal a	1707	7	24	10000
2805052100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - outdoor operations (unspecified animal age);Confinement	1707	7	24	10000
2805053100	Miscellaneous Area Sources;Agriculture Production - Livestock;Swine production - outdoor operations; Confinement	1707	7	24	10000
2805053200	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - outdoor operations (unspecified animal age);Man	1707	7	24	10000
2805053310	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - outdoor operations (unspecified animal age);Lan	1707	7	24	10000
2805053320	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - outdoor operations (unspecified animal age);Lan	1707	7	24	10000
2805053330	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - outdoor operations (unspecified animal age);Lan	1707	7	24	10000
2805053340	Miscellaneous Area Sources;Agricultural Production - Livestock;Swine Production - outdoor operations (unspecified animal age);Lan	1707	7	24	10000
2805054000	Miscellaneous Area Sources;Agricultural Production - Livestock;"Mules; Donkeys; and Burros Waste Emissions";Not Elsewhere Classif	262	7	24	10000
2806010000	Miscellaneous Area Sources;Domestic Animals Waste Emissions;Cats;Total	262	7	24	10000
2806015000	Miscellaneous Area Sources;Domestic Animals Waste Emissions;Dogs;Total	262	7	24	10000
2807030000	Miscellaneous Area Sources;Wild Animals Waste Emissions;Deer;Total	262	7	24	10000
2807040000	Miscellaneous Area Sources;Wild Animals Waste Emissions;Birds;Total	262	7	24	10000
2810010000	Miscellaneous Area Sources;Other Combustion;Human Perspiration and Respiration;Total	1739	2006	24	10000
2810015000	Miscellaneous Area Sources;Other Combustion;Prescribed Burning for Forest Management;Total	1731	7	24	10000
2810030000	Miscellaneous Area Sources;Other Combustion;Structure Fires;Total	1715	7	24	10000
2810035000	Miscellaneous Area Sources;Other Combustion;Firefighting Training;Total	1716	2004	24	10000
2870000001	Miscellaneous Area Sources;Humans;Respiration and Perspiration;Total	262	7	24	10000
2870000002	Miscellaneous Area Sources;Humans;Infant Diapered Waste;Total	262	7	24	10000
2870000011	Miscellaneous Area Sources;Domestic Activity;Household Products;Total	262	7	24	10000
2870000015	Miscellaneous Area Sources;Domestic Activity;Non-agricultural Fertilizers;Total	3	7	24	10000

Table VII-6 (continued)

SCC	Description	Month	Week	Diurnal	FIPS
2870000021	Miscellaneous Area Sources;Domestic Animals;Dogs;Total	262	7	24	10000
2870000022	Miscellaneous Area Sources;Domestic Animals;Cats;Total	262	7	24	10000
2870000031	Miscellaneous Area Sources;Wild Animals;Deer;Total	262	7	24	10000
2870000032	Miscellaneous Area Sources;Wild Animals;Birds;Total	1728	7	24	10000

Table VII-7. Point Source Speciation Profiles Added to Speciation Cross-reference File for CB-IV with PM Mechanism

State	FIPS	SCC	Recommended Profiles		Method of Assignment	SCC Description (Complete description not always available)
			VOC	$PM_{2.5}$		
VT	50005	10200908	1084	NWWAS	Use SCC=102009XX profiles	External Combustion Boilers;Industrial;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
VT	50019	10200908	1084	NWWAS	Use SCC=102009XX profiles	External Combustion Boilers;Industrial;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
VT	50021	10200908	1084	NWWAS	Use SCC=102009XX profiles	External Combustion Boilers;Industrial;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
VT	50017	10300908	1084	NWWAS	Use SCC=103009XX profiles	External Combustion Boilers;Commercial/Institutional;Wood/Bark Waste;Wood-fired Boiler - Dry Wood (<20% moisture)
PA	42009	20200299	0007	22004	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42029	20200299	0007	22004	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42045	20200299	0007	22004	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42061	20200299	0007	22004	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42067	20200299	0007	22004	Use SCC=202002XX profiles	Internal Combustion Engines;Industrial;Natural Gas;Unknown
PA	42015	20300299	0007	22004	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42029	20300299	0007	22004	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42037	20300299	0007	22004	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42071	20300299	0007	22004	Use SCC=203002XX profiles	Internal Combustion Engines;Commercial/Institutional;Natural Gas;Unknown
PA	42011	28888899	9002	35602	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
PA	42123	28888899	9002	35602	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
PA	42123	28888899	9002	35602	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
PA	42129	28888899	9002	35602	Use SCC=288888XX profiles	Internal Combustion Engines;Fugitive Emissions;Other Not Classified;Specify in Comments
MD	24031	30500261	0025	22035	Use SCC=30500260 profile	Industrial Processes;Mineral Products;Asphalt Concrete;Drum Mix Plant: Rotary Drum Dryer/Mixer, Waste/Drain/#6 Oil-Fired
PA	Numerous counties	39000698	0000	22004	Use SCC=39000699 profile	Industrial Processes;In-process Fuel Use;Natural Gas;Unknown
NJ	Numerous counties	39999901	9003	22054	Use SCC=399999XX profiles	Industrial Processes;Miscellaneous Manufacturing Industries;Miscellaneous Industrial Processes;Unknown
PA	42015	40202598	1003	99999	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42017	40202598	1003	99999	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42091	40202598	1003	99999	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42095	40202598	1003	99999	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42097	40202598	1003	99999	Use SCC=40202599 profile	Petroleum and Solvent Evaporation;Surface Coating Operations;Miscellaneous Metal Parts;Unknown
PA	42013	40400299	1014	22042	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown
PA	42041	40400299	1014	22042	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown
PA	42045	40400299	1014	22042	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown
PA	42071	40400299	1014	22042	Use SCC=404002XX profiles	Petroleum and Solvent Evaporation;Petroleum Liquids Storage (non-Refinery);Bulk Plants;Unknown

Table VII-8. Point Source SCCs Lacking Speciation Profile Assignments for CB-IV with PM Mechanism

State	FIPS	SCC	Description
NY	36055	31603001	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Substrate Preparation;Extrusion Operations
NY	36055	31603002	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Substrate Preparation;Film Support Operations
NY	36055	31604001	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Chemical Preparation;Chemical Manufacturing
NY	36055	31604002	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Chemical Preparation;Emulsion Making Operations
NY	36055	31604003	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Chemical Preparation;Chemical Mixing Operations
NY	36055	31605001	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Surface Treatments;Surface Coating Operations
NY	36055	31605002	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Surface Treatments;Grid Ionizers
NY	36055	31605003	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Surface Treatments;Corona Discharge Treatment
NY	36055	31606001	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Finishing Operations;General Film Manufacturing
NY	36055	31606002	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Finishing Operations;Cutting/Slitting Operations
PA	42101	31606002	Industrial Processes;Photographic Film Manufacturing;Product Manufacturing - Finishing Operations;Cutting/Slitting Operations
NY	36055	31612001	Industrial Processes;Photographic Film Manufacturing;Support Activities - Cleaning Operations;Tank Cleaning Operations
NY	36055	31612002	Industrial Processes;Photographic Film Manufacturing;Support Activities - Cleaning Operations;General Cleaning Operations
NY	36055	31613002	Industrial Processes;Photographic Film Manufacturing;Support Activities - Storage Operations;General Storage Operations
NY	36055	31614001	Industrial Processes;Photographic Film Manufacturing;Support Activities - Material Transfer Operations;Filling Operations (non petroleum)
NY	36055	31614002	Industrial Processes;Photographic Film Manufacturing;Support Activities - Material Transfer Operations;Transfer of Chemicals
NY	36055	31615001	Industrial Processes;Photographic Film Manufacturing;Support Activities - Separation Processes;Recovery Operations
NY	36055	31615003	Industrial Processes;Photographic Film Manufacturing;Support Activities - Separation Processes;Distillation Operations
NY	36055	31616002	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;General Process Tank Operations
NY	36055	31616003	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;Miscellaneous Manufacturing Operations
NY	36055	31616004	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;Paint Spraying Operations
NY	36055	31616006	Industrial Processes;Photographic Film Manufacturing;Support Activities - Other Operations;Chemical Weighing Operations

Table VII-9. Summary of Version 3 Mass Emissions and SMOKE Input Files

S/L Agencies Included in Files	NIF 3.0 File Name Containing Mass Emissions Inventory (Access 2000 Database Files)	Temporal Period of Mass Emissions Inventory	SMOKE Input File Name	Temporal Period of Emissions in SMOKE/IDA File
Point Source Inventory				
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA (state and Philadelphia, and Allegheny Counties), RI, VT	MANEVU_2002_Pt_Version 3_040706.mdb	Annual, Summer Day, and Winter Day	MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_042706.txt	Annual and Summer Day
"	"	"	MANEVU_Point_SMOKE_INPUT_ANNUAL_WINTERDAY_042706.txt	Annual and Winter Day
Area Source Inventory				
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT	MANEVU_2002_Area_040606.mdb	Annual, Summer Day, Winter Day, and Average Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt	Annual, Summer Day, and Average Day
"	"	"	MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt	Annual, Winter Day, and Average Day
Nonroad Source Inventory				
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT	MANEVU_NRD2002_NIF_030306.mdb	Annual	MANEVU_NRD2002_SMOKE_030306.ida	Annual
Onroad Source Inventory				
CT	CT2002MANEVUORCAP_122004.mdb	Annual		
DE	DE2002MANEVUORCAP_072004.mdb	Annual		
DC	DC2002MANEVUORCAP_072004.mdb	Annual		
ME	ME2002MANEVUORCAP_072004.mdb	Annual		
MD	MD2002MANEVUORCAP_072004.mdb	Annual		
MA	MA2002MANEVUORCAP_022006_Access2000.mdb MA2002MANEVUORCAP_022006_Access97.mdb	Annual		
NH	NH2002MANEVUORCAP_072004.mdb	Annual		
NJ	NJ2002MANEVUORCAP_022006_Access2000.mdb NJ2002MANEVUORCAP_022006_Access97.mdb	Annual		
NY	NY2002MANEVUORCAP_072004.mdb	Annual		
PA	PA2002MANEVUORCAP_072004.mdb	Annual		
RI	DRI2002MANEVUORCAP_072004.mdb	Annual		
VT	VT2002MANEVUORCAP_122004.mdb	Annual		
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT			MANEVU_2002_mbinv_02022006.txt	
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT			MANEVU_2002_mcref_02022006.txt	

S/L Agencies Included in Files	NIF 3.0 File Name Containing Mass Emissions Inventory (Access 2000 Database Files)	Temporal Period of Mass Emissions Inventory	SMOKE Input File Name	Temporal Period of Emissions in SMOKE/IDA File
DE, MA, MD, NJ, NY, PA, VT			MANEVU_2002_mtpro_02022006.txt	
DE, MA, MD, NJ, NY, PA, VT			MANEVU_2002_mtref_02022006.txt	
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT			MANEVU_2002_mvref_02022006.txt	
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT			MANEVU_2002_vmtmix_02022006.txt	
			MANEVU_2002_mcodes.txt	
CT, NY			MANEVU_2002_spdpro.txt	
CT, NY			MANEVU_2002_spdref.txt	
CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT			SMOKE MOBILE6 input files—too numerous to list individually	

Table VII-10. Unique List of Start Date, End Date, and Emission Type Combinations for Daily Emissions in the MANE-VU 2002 Point and Area Source Inventories, Version 3

Start Date	End Date	Emission Type	Emission Type Period	Season Designation	SMOKE File
Point Source Inventory					
20011201	20020228	27	NONANNUAL	Winter	MANEVU_Point_SMOKE_INPUT_ANNUAL_WINTERDAY_042706.txt
20011201	20020228	29	NONANNUAL	Winter	MANEVU_Point_SMOKE_INPUT_ANNUAL_WINTERDAY_042706.txt
20020101	20020331	27	NONANNUAL	Winter	MANEVU_Point_SMOKE_INPUT_ANNUAL_WINTERDAY_042706.txt
20020101	20021231	29	NONANNUAL	MD-Winter	MANEVU_Point_SMOKE_INPUT_ANNUAL_WINTERDAY_042706.txt
				VT-Summer	MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_042706.txt
20020501	20020930	29	NONANNUAL	Summer	MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_042706.txt
20020601	20020831	27	NONANNUAL	Summer	MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_042706.txt
20020601	20020831	29	NONANNUAL	Summer	MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_042706.txt
20020601	20020831	30	NONANNUAL	Summer	MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_042706.txt
Area Source Inventory					
20020101	20020831	27	Daily	Average Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt and MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt
20020101	20021231	29	Daily	Average Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt and MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt
20020401	20020930	29	Daily	Summer Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt
20020401	20021031	29	Daily	Summer Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt
20020512	20020512	27	Daily	Summer Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt
20020601	20020831	27	Daily	Summer Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt
20020601	20020831	29	Daily	Summer Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt
20020601	20020929	29	Daily	Summer Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt
20020629	20020629	27	Daily	Summer Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt
20011201	20020228	27	Daily	Winter Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt
20011201	20020228	29	Daily	Winter Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt
20021029	20021029	27	Daily	Winter Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt
20021104	20021104	27	Daily	Winter Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt
20021205	20021205	27	Daily	Winter Day	MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt

CHAPTER VIII. METHODS FOR AREAS OUTSIDE OF THE MANE-VU REGION

Figure VIII-1 shows the geographic area for which the 12-kilometer (km) CMAQ modeling domain was used to support air quality modeling for the MANE-VU region. The 36-km domain definition was used for geographical areas outside of the area shown in Figure VIII-1. Table VIII-1 identifies the geographic region as well as the types of emissions inventory and ancillary data used to in modeling for the MANE-VU region. The geographic areas for which data were obtained include the Visibility Improvement State and Tribal Association of the Southeast (VISTAS), Central Regional Air Planning Organization (CENRAP), and WRAP RPOs, the Midwest RPO, Canada, and Mexico.

Figure VIII-1. MANE-VU 12-Kilometer CMAQ Modeling Domain

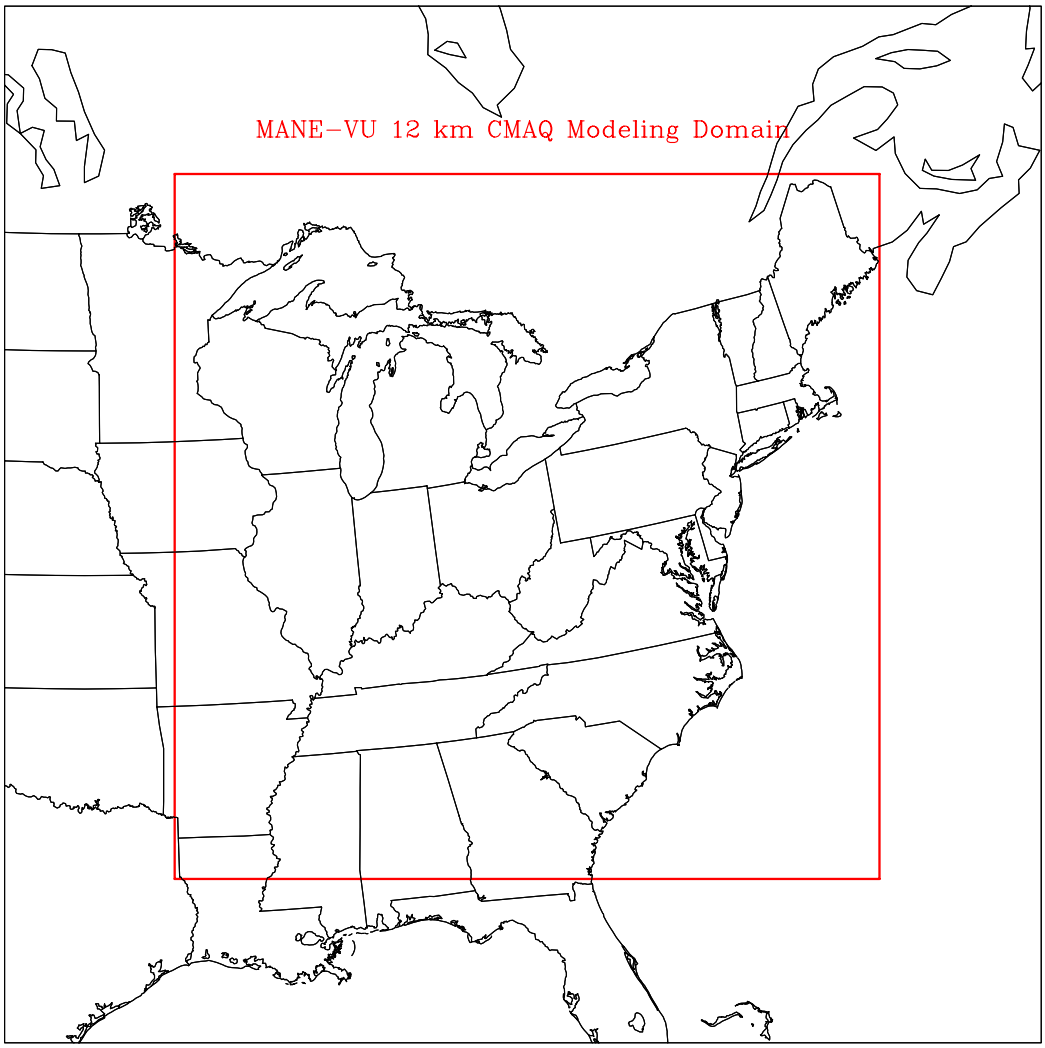


Table VIII-1. Description of Non-MANE-VU Region Inventory Data Used for MANE-VU BaseB Modeling

Geographical Region/RPO	Raw Data	Time Period and Version Number	Raw Data Format	Source of Data	Source of Ancillary Data	Date Data and Summaries Obtained by MANE-VU Modelers
VISTAS	Point, area, nonroad, and mobile	2002 BaseG	SMOKE IDA	Gregory Stella, Alpine Geophysics	Gregory Stella, Alpine Geophysics	June/July 2006
MRPO	Point, area, nonroad, and mobile	2002 BaseK	SMOKE IDA	NIF files provided by Mark Janssen, MRPO, and converted to IDA format by Gregory Stella, Alpine Geophysics	Part of VISTAS 2002 BaseD provided by Gregory Stella, Alpine Geophysics	May 2006
CENRAP	Point, area, nonroad, and mobile	2002 BaseB	SMOKE IDA	CENRAP ftp site Lee Warden, Oklahoma DEQ	CENRAP ftp site Lee Warden, Oklahoma DEQ	March 2006
WRAP *	Point, area, nonroad, and mobile	Part of VISTAS 2002 BaseD	SMOKE IDA	Part of VISTAS 2002 BaseD provided by Gregory Stella, Alpine Geophysics	Part of VISTAS 2002 BaseD provided by Gregory Stella, Alpine Geophysics	January 2005
Canada	Area, nonroad and mobile	2000	SMOKE IDA	ftp://ftp.epa.gov/EmisInventory/canada_2000inventory	SMOKE 2.1 defaults	February 2005
	Point	2002	SMOKE IDA created by NYSDEC from Canadian NPRI database	http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm	SMOKE 2.1 defaults	May 2005
Mexico *	Point, area, nonroad and mobile	1999	SMOKE IDA	EPA CAIR NODA	SMOKE 2.1 defaults	February 2005

* Only utilized for 2002 BaseA 36-km modeling to generate boundary conditions for BaseA/BaseA1/BaseB current and future year 12-km modeling.

CHAPTER IX. REFERENCES

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APPENDIX A

POINT SOURCE INVENTORY, VERSION 3:
DATA SOURCES BY SCC, EMISSION TYPE PERIOD, AND POLLUTANT

[*NOTE: The Appendix A table for each State is provided in a separate MS Word file because of the large size of each table. The Word files are provided in the zip file named "Appendix A.zip"; this zip file also includes an Excel Workbook file that contains the spreadsheet from which the Word file was created for each State.]*

APPENDIX B

AREA SOURCE INVENTORY, VERSION 3:
DATA SOURCES BY SCC, EMISSION TYPE PERIOD, AND POLLUTANT

[*NOTE: The Appendix B table for each State is provided in a separate MS Word file because of the large size of each table. The Word files are provided in the zip file named "Appendix B.zip"; this zip file also includes an Excel Workbook file that contains the spreadsheet from which the Word file was created for each State.]*

APPENDIX C

NONROAD SOURCE INVENTORY, VERSION 3: FINAL COUNTY, MONTHLY NATIONAL MOBILE INVENTORY MODEL (NMIM) INPUTS

CONTENTS

CONNECTICUT C-2
DELAWARE C-2
DISTRICT OF COLUMBIA C-3
MAINE C-3
MARYLAND C-4
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Table C-1. MANE-VU County, Monthly NMIM/NONROAD Inputs

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
09	**CONNECTICUT**														
RVP, psi															
		001	Fairfield County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		003	Hartford County	12.3	12.3	10.0	10.0	6.9	6.9	6.9	6.9	6.9	10.0	10.0	12.3
		005	Litchfield County	12.3	12.3	10.0	10.0	6.9	6.9	6.9	6.9	6.9	10.0	10.0	12.3
		007	Middlesex County	12.3	12.3	10.0	10.0	6.9	6.9	6.9	6.9	6.9	10.0	10.0	12.3
		009	New Haven County	12.3	12.3	10.0	10.0	6.9	6.9	6.9	6.9	6.9	10.0	10.0	12.3
		011	New London County	12.3	12.3	10.0	10.0	6.9	6.9	6.9	6.9	6.9	10.0	10.0	12.3
		013	Tolland County	12.3	12.3	10.0	10.0	6.9	6.9	6.9	6.9	6.9	10.0	10.0	12.3
		015	Windham County	12.3	12.3	10.0	10.0	6.9	6.9	6.9	6.9	6.9	10.0	10.0	12.3
Oxygen Weight Percent															
		001	Fairfield County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		003	Hartford County	1.5667	1.5667	1.6068	1.6068	1.6596	1.6596	1.6596	1.6596	1.6596	1.6068	1.6068	1.5667
		005	Litchfield County	1.5667	1.5667	1.6068	1.6068	1.6596	1.6596	1.6596	1.6596	1.6596	1.6068	1.6068	1.5667
		007	Middlesex County	1.5667	1.5667	1.6068	1.6068	1.6596	1.6596	1.6596	1.6596	1.6596	1.6068	1.6068	1.5667
		009	New Haven County	1.5667	1.5667	1.6068	1.6068	1.6596	1.6596	1.6596	1.6596	1.6596	1.6068	1.6068	1.5667
		011	New London County	1.5667	1.5667	1.6068	1.6068	1.6596	1.6596	1.6596	1.6596	1.6596	1.6068	1.6068	1.5667
		013	Tolland County	1.5667	1.5667	1.6068	1.6068	1.6596	1.6596	1.6596	1.6596	1.6596	1.6068	1.6068	1.5667
		015	Windham County	1.5667	1.5667	1.6068	1.6068	1.6596	1.6596	1.6596	1.6596	1.6596	1.6068	1.6068	1.5667
Gasoline Sulfur, ppm															
		001	Fairfield County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
		003	Hartford County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
		005	Litchfield County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
		007	Middlesex County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
		009	New Haven County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
		011	New London County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
		013	Tolland County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
		015	Windham County	135.0	135.0	135.0	135.0	106.0	106.0	106.0	106.0	106.0	135.0	135.0	135.0
10	**DELAWARE**														
RVP, psi															
		001	Kent County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		003	New Castle County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		005	Sussex County	13.4	13.4	10.4	10.4	6.4	6.4	6.4	6.4	6.4	10.4	10.4	13.4
Oxygen Weight Percent															
		001	Kent County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		003	New Castle County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		005	Sussex County	1.4645	1.4645	1.5538	1.5538	1.6431	1.6431	1.6431	1.6431	1.6431	1.5538	1.5538	1.4645
Gasoline Sulfur, ppm															
		001	Kent County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		003	New Castle County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		005	Sussex County	225.0	225.0	186.0	186.0	134.0	134.0	134.0	134.0	134.0	186.0	186.0	225.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
11	**DISTRICT OF COLUMBIA**														
RVP, psi															
		001	District of Columbia	13.1	13.1	10.4	10.4	6.8	6.8	6.8	6.8	6.8	6.8	10.4	13.1
Oxygen Weight Percent															
		001	District of Columbia	1.7681	1.7681	1.8217	1.8217	1.8932	1.8932	1.8932	1.8932	1.8932	1.8932	1.8217	1.7681
Gasoline Sulfur, ppm															
		001	District of Columbia	230.0	230.0	199.6	199.6	159.0	159.0	159.0	159.0	159.0	159.0	199.6	230.0
23	**MAINE**														
RVP, psi															
		001	Androscoggin County	12.3	11.1	11.2	8.4	7.5	7.5	7.7	7.3	9.7	10.7	10.3	11.6
		003	Aroostook County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		005	Cumberland County	12.3	11.1	11.2	8.4	7.5	7.5	7.7	7.3	9.7	10.7	10.3	11.6
		007	Franklin County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		009	Hancock County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		011	Kennebec County	12.3	11.1	11.2	8.4	7.5	7.5	7.7	7.3	9.7	10.7	10.3	11.6
		013	Knox County	12.3	11.1	11.2	8.4	7.5	7.5	7.7	7.3	9.7	10.7	10.3	11.6
		015	Lincoln County	12.3	11.1	11.2	8.4	7.5	7.5	7.7	7.3	9.7	10.7	10.3	11.6
		017	Oxford County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		019	Penobscot County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		021	Piscataquis County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		023	Sagadahoc County	12.3	11.1	11.2	8.4	7.5	7.5	7.7	7.3	9.7	10.7	10.3	11.6
		025	Somerset County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		027	Waldo County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		029	Washington County	12.3	11.1	11.2	8.4	8.6	8.6	8.4	8.4	9.7	10.7	10.3	11.6
		031	York County	12.3	11.1	11.2	8.4	7.5	7.5	7.7	7.3	9.7	10.7	10.3	11.6
Oxygen Weight Percent															
		001	Androscoggin County	0.4334	0.6510	0.5390	0.3235	0.2420	0.1753	0.7061	0.6868	0.5895	0.6930	0.3560	0.2080
		003	Aroostook County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		005	Cumberland County	0.4334	0.6510	0.5390	0.3235	0.2420	0.1753	0.7061	0.6868	0.5895	0.6930	0.3560	0.2080
		007	Franklin County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		009	Hancock County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		011	Kennebec County	0.4334	0.6510	0.5390	0.3235	0.2420	0.1753	0.7061	0.6868	0.5895	0.6930	0.3560	0.2080
		013	Knox County	0.4334	0.6510	0.5390	0.3235	0.2420	0.1753	0.7061	0.6868	0.5895	0.6930	0.3560	0.2080
		015	Lincoln County	0.4334	0.6510	0.5390	0.3235	0.2420	0.1753	0.7061	0.6868	0.5895	0.6930	0.3560	0.2080
		017	Oxford County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		019	Penobscot County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		021	Piscataquis County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		023	Sagadahoc County	0.4334	0.6510	0.5390	0.3235	0.2420	0.1753	0.7061	0.6868	0.5895	0.6930	0.3560	0.2080
		025	Somerset County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		027	Waldo County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		029	Washington County	0.4334	0.6510	0.5390	0.3235	0.3786	0.5845	0.8545	0.5448	0.5895	0.6930	0.3560	0.2080
		031	York County	0.4334	0.6510	0.5390	0.3235	0.2420	0.1753	0.7061	0.6868	0.5895	0.6930	0.3560	0.2080
Gasoline Sulfur, ppm															
		001	Androscoggin County	151.5	236.1	221.1	145.4	319.7	268.1	101.1	83.4	159.9	279.8	190.9	171.0
		003	Aroostook County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
		005	Cumberland County	151.5	236.1	221.1	145.4	319.7	268.1	101.1	83.4	159.9	279.8	190.9	171.0
		007	Franklin County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		009	Hancock County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
23	*MAINE (cont'd)*	011	Kennebec County	151.5	236.1	221.1	145.4	319.7	268.1	101.1	83.4	159.9	279.8	190.9	171.0
		013	Knox County	151.5	236.1	221.1	145.4	319.7	268.1	101.1	83.4	159.9	279.8	190.9	171.0
		015	Lincoln County	151.5	236.1	221.1	145.4	319.7	268.1	101.1	83.4	159.9	279.8	190.9	171.0
		017	Oxford County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
		019	Penobscot County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
		021	Piscataquis County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
		023	Sagadahoc County	151.5	236.1	221.1	145.4	319.7	268.1	101.1	83.4	159.9	279.8	190.9	171.0
		025	Somerset County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
		027	Waldo County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
		029	Washington County	151.5	236.1	221.1	145.4	170.1	290.9	128.6	299.4	159.9	279.8	190.9	171.0
		031	York County	151.5	236.1	221.1	145.4	319.7	268.1	101.1	83.4	159.9	279.8	190.9	171.0
24	**MARYLAND**														
RVP, psi															
		003	Anne Arundel County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		005	Baltimore County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		009	Calvert County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		011	Caroline County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		013	Carroll County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		015	Cecil County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		017	Charles County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		019	Dorchester County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		021	Frederick County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		023	Garrett County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		025	Harford County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		027	Howard County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		029	Kent County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		031	Montgomery County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		033	Prince George's County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		035	Queen Anne's County	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
		037	St. Mary's County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		039	Somerset County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		041	Talbot County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		043	Washington County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		045	Wicomico County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		047	Worcester County	12.6	12.6	9.6	9.6	9.6	8.2	8.2	8.2	9.3	9.3	9.3	12.6
		510	Baltimore city	12.6	12.6	9.6	9.6	9.6	6.6	6.6	6.6	9.3	9.3	9.3	12.6
Oxygen Weight Percent															
		001	Allegany County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		003	Anne Arundel County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		005	Baltimore County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		009	Calvert County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		011	Caroline County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		013	Carroll County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		015	Cecil County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		017	Charles County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		019	Dorchester County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		021	Frederick County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		023	Garrett County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
24	*MARYLAND (cont'd)*	025	Harford County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		027	Howard County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		029	Kent County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		031	Montgomery County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		033	Prince George's County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		035	Queen Anne's County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		037	St. Mary's County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		039	Somerset County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		041	Talbot County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		043	Washington County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		045	Wicomico County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		047	Worcester County	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
		510	Baltimore city	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075	2.1075
Gasoline Sulfur, ppm															
		001	Allegany County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		003	Anne Arundel County	211.0	211.0	184.0	129.0	129.0	129.0	129.0	129.0	129.0	148.0	184.0	211.0
		005	Baltimore County	211.0	211.0	184.0	129.0	129.0	129.0	129.0	129.0	129.0	148.0	184.0	211.0
		009	Calvert County	230.0	230.0	199.6	129.0	129.0	129.0	129.0	129.0	129.0	159.0	199.6	230.0
		011	Caroline County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		013	Carroll County	211.0	211.0	184.0	129.0	129.0	129.0	129.0	129.0	129.0	148.0	184.0	211.0
		015	Cecil County	174.0	174.0	155.1	129.0	129.0	129.0	129.0	129.0	129.0	130.0	155.1	174.0
		017	Charles County	230.0	230.0	199.6	129.0	129.0	129.0	129.0	129.0	129.0	159.0	199.6	230.0
		019	Dorchester County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		021	Frederick County	230.0	230.0	199.6	129.0	129.0	129.0	129.0	129.0	129.0	159.0	199.6	230.0
		023	Garrett County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		025	Harford County	211.0	211.0	184.0	129.0	129.0	129.0	129.0	129.0	129.0	148.0	184.0	211.0
		027	Howard County	211.0	211.0	184.0	129.0	129.0	129.0	129.0	129.0	129.0	148.0	184.0	211.0
		029	Kent County	174.0	174.0	155.1	129.0	129.0	129.0	129.0	129.0	129.0	130.0	155.1	174.0
		031	Montgomery County	230.0	230.0	199.6	129.0	129.0	129.0	129.0	129.0	129.0	159.0	199.6	230.0
		033	Prince George's County	230.0	230.0	199.6	129.0	129.0	129.0	129.0	129.0	129.0	159.0	199.6	230.0
		035	Queen Anne's County	174.0	174.0	155.1	129.0	129.0	129.0	129.0	129.0	129.0	130.0	155.1	174.0
		037	St. Mary's County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		039	Somerset County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		041	Talbot County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		043	Washington County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		045	Wicomico County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		047	Worcester County	207.9	207.9	191.9	191.9	170.5	170.5	170.5	170.5	170.5	170.5	191.9	207.9
		510	Baltimore city	211.0	211.0	184.0	129.0	129.0	129.0	129.0	129.0	129.0	148.0	184.0	211.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
25	**MASSACHUSETTS**														
RVP, psi															
		001	Barnstable County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		003	Berkshire County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		005	Bristol County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		007	Dukes County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		009	Essex County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		011	Franklin County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		013	Hampden County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		015	Hampshire County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		017	Middlesex County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		019	Nantucket County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		021	Norfolk County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		023	Plymouth County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		025	Suffolk County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
		027	Worcester County	13.5	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	13.5	13.5	13.5
Oxygen Weight Percent															
		001	Barnstable County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		003	Berkshire County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		005	Bristol County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		007	Dukes County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		009	Essex County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		011	Franklin County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		013	Hampden County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		015	Hampshire County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		017	Middlesex County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		019	Nantucket County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		021	Norfolk County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		023	Plymouth County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		025	Suffolk County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
		027	Worcester County	1.5002	1.5002	1.5002	1.5002	2.1075	2.1075	2.1075	2.1075	2.1075	1.5002	1.5002	1.5002
Gasoline Sulfur, ppm															
		001	Barnstable County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		003	Berkshire County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		005	Bristol County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		007	Dukes County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		009	Essex County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		011	Franklin County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		013	Hampden County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		015	Hampshire County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		017	Middlesex County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		019	Nantucket County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		021	Norfolk County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		023	Plymouth County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		025	Suffolk County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		027	Worcester County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
33	**NEW HAMPSHIRE**														
RVP, psi															
		001	Belknap County	13.6	13.6	11.2	11.2	7.9	7.9	7.9	7.9	7.9	11.2	11.2	13.6
		003	Carroll County	13.6	13.6	11.2	11.2	7.9	7.9	7.9	7.9	7.9	11.2	11.2	13.6
		005	Cheshire County	13.6	13.6	11.2	11.2	7.9	7.9	7.9	7.9	7.9	11.2	11.2	13.6
		007	Coos County	13.6	13.6	11.2	11.2	7.9	7.9	7.9	7.9	7.9	11.2	11.2	13.6
		009	Grafton County	13.6	13.6	11.2	11.2	7.9	7.9	7.9	7.9	7.9	11.2	11.2	13.6
		011	Hillsborough County	12.9	12.9	10.2	10.2	6.7	6.7	6.7	6.7	6.7	10.2	10.2	12.9
		013	Merrimack County	12.9	12.9	10.2	10.2	6.7	6.7	6.7	6.7	6.7	10.2	10.2	12.9
		015	Rockingham County	12.9	12.9	10.2	10.2	6.7	6.7	6.7	6.7	6.7	10.2	10.2	12.9
		017	Strafford County	12.9	12.9	10.2	10.2	6.7	6.7	6.7	6.7	6.7	10.2	10.2	12.9
		019	Sullivan County	13.6	13.6	11.2	11.2	7.9	7.9	7.9	7.9	7.9	11.2	11.2	13.6
Oxygen Weight Percent															
		001	Belknap County	0.1786	0.1786	0.2322	0.2322	0.2858	0.2858	0.2858	0.2858	0.2858	0.2322	0.2322	0.1786
		003	Carroll County	0.1786	0.1786	0.2322	0.2322	0.2858	0.2858	0.2858	0.2858	0.2858	0.2322	0.2322	0.1786
		005	Cheshire County	0.1786	0.1786	0.2322	0.2322	0.2858	0.2858	0.2858	0.2858	0.2858	0.2322	0.2322	0.1786
		007	Coos County	0.1786	0.1786	0.2322	0.2322	0.2858	0.2858	0.2858	0.2858	0.2858	0.2322	0.2322	0.1786
		009	Grafton County	0.1786	0.1786	0.2322	0.2322	0.2858	0.2858	0.2858	0.2858	0.2858	0.2322	0.2322	0.1786
		011	Hillsborough County	1.8217	1.8217	1.9110	1.9110	2.0182	2.0182	2.0182	2.0182	2.0182	1.9110	1.9110	1.8217
		013	Merrimack County	1.8217	1.8217	1.9110	1.9110	2.0182	2.0182	2.0182	2.0182	2.0182	1.9110	1.9110	1.8217
		015	Rockingham County	1.9825	1.9825	2.0539	2.0539	2.1432	2.1432	2.1432	2.1432	2.1432	2.0539	2.0539	1.9825
		017	Strafford County	1.9825	1.9825	2.0539	2.0539	2.1432	2.1432	2.1432	2.1432	2.1432	2.0539	2.0539	1.9825
		019	Sullivan County	0.1786	0.1786	0.2322	0.2322	0.2858	0.2858	0.2858	0.2858	0.2858	0.2322	0.2322	0.1786
Gasoline Sulfur, ppm															
		001	Belknap County	228.1	228.1	208.6	208.6	182.5	182.5	182.5	182.5	182.5	208.6	208.6	228.1
		003	Carroll County	228.1	228.1	208.6	208.6	182.5	182.5	182.5	182.5	182.5	208.6	208.6	228.1
		005	Cheshire County	228.1	228.1	208.6	208.6	182.5	182.5	182.5	182.5	182.5	208.6	208.6	228.1
		007	Coos County	228.1	228.1	208.6	208.6	182.5	182.5	182.5	182.5	182.5	208.6	208.6	228.1
		009	Grafton County	228.1	228.1	208.6	208.6	182.5	182.5	182.5	182.5	182.5	208.6	208.6	228.1
		011	Hillsborough County	121.0	121.0	101.3	101.3	75.0	75.0	75.0	75.0	75.0	101.3	101.3	121.0
		013	Merrimack County	121.0	121.0	101.3	101.3	75.0	75.0	75.0	75.0	75.0	101.3	101.3	121.0
		015	Rockingham County	148.0	148.0	121.0	121.0	85.0	85.0	85.0	85.0	85.0	121.0	121.0	148.0
		017	Strafford County	148.0	148.0	121.0	121.0	85.0	85.0	85.0	85.0	85.0	121.0	121.0	148.0
		019	Sullivan County	228.1	228.1	208.6	208.6	182.5	182.5	182.5	182.5	182.5	208.6	208.6	228.1
34	**NEW JERSEY**														
RVP, psi															
		001	Atlantic County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		003	Bergen County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		005	Burlington County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		007	Camden County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		009	Cape May County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		011	Cumberland County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		013	Essex County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		015	Gloucester County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		017	Hudson County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		019	Hunterdon County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		021	Mercer County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		023	Middlesex County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
34	*NEW JERSEY (cont'd)*	025	Monmouth County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		027	Morris County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		029	Ocean County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		031	Passaic County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		033	Salem County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
		035	Somerset County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		037	Sussex County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		039	Union County	12.5	12.5	10.1	10.1	6.8	6.8	6.8	6.8	6.8	10.1	10.1	12.5
		041	Warren County	13.4	13.4	10.6	10.6	6.8	6.8	6.8	6.8	6.8	10.6	10.6	13.4
Oxygen Weight Percent															
		001	Atlantic County	1.6922	1.6922	1.8499	1.8499	2.0718	2.0718	2.0718	2.0718	2.0718	1.8499	1.8499	1.6922
		003	Bergen County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		005	Burlington County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		007	Camden County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		009	Cape May County	1.6922	1.6922	1.8499	1.8499	2.0718	2.0718	2.0718	2.0718	2.0718	1.8499	1.8499	1.6922
		011	Cumberland County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		013	Essex County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		015	Gloucester County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		017	Hudson County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		019	Hunterdon County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		021	Mercer County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		023	Middlesex County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		025	Monmouth County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		027	Morris County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		029	Ocean County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		031	Passaic County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		033	Salem County	1.8442	1.8442	1.9457	1.9457	2.0896	2.0896	2.0896	2.0896	2.0896	1.9457	1.9457	1.8442
		035	Somerset County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		037	Sussex County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		039	Union County	1.7172	1.7172	1.7660	1.7660	1.8234	1.8234	1.8234	1.8234	1.8234	1.7660	1.7660	1.7172
		041	Warren County	1.8753	1.8753	1.9110	1.9110	1.9825	1.9825	1.9825	1.9825	1.9825	1.9110	1.9110	1.8753
Gasoline Sulfur, ppm															
		001	Atlantic County	207.0	207.0	174.0	174.0	130.0	130.0	130.0	130.0	130.0	174.0	174.0	207.0
		003	Bergen County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		005	Burlington County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		007	Camden County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		009	Cape May County	207.0	207.0	174.0	174.0	130.0	130.0	130.0	130.0	130.0	174.0	174.0	207.0
		011	Cumberland County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		013	Essex County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		015	Gloucester County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		017	Hudson County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		019	Hunterdon County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		021	Mercer County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		023	Middlesex County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		025	Monmouth County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		027	Morris County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		029	Ocean County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		031	Passaic County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
34	*NEW JERSEY (cont'd)*	033	Salem County	174.0	174.0	155.1	155.1	130.0	130.0	130.0	130.0	130.0	155.1	155.1	174.0
		035	Somerset County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		037	Sussex County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		039	Union County	141.0	141.0	129.4	129.4	114.0	114.0	114.0	114.0	114.0	129.4	129.4	141.0
		041	Warren County	125.0	125.0	123.7	123.7	122.0	122.0	122.0	122.0	122.0	123.7	123.7	125.0
36	**NEW YORK**														
RVP, psi															
		001	Albany County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		003	Allegany County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		005	Bronx County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		007	Broome County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		009	Cattaraugus County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		011	Cayuga County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		013	Chautauqua County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		015	Chemung County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		017	Chenango County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		019	Clinton County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		021	Columbia County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		023	Cortland County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		025	Delaware County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		027	Dutchess County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		029	Erie County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		031	Essex County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		033	Franklin County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		035	Fulton County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		037	Genesee County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		039	Greene County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		041	Hamilton County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		043	Herkimer County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		045	Jefferson County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		047	Kings County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		049	Lewis County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		051	Livingston County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		053	Madison County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		055	Monroe County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		057	Montgomery County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		059	Nassau County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		061	New York County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		063	Niagara County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		065	Oneida County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		067	Onondaga County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		069	Ontario County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		071	Orange County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		073	Orleans County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		075	Oswego County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		077	Otsego County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		079	Putnam County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		081	Queens County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
36	*NEW YORK*	083	Rensselaer County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
	(cont'd)	085	Richmond County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		087	Rockland County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		089	St. Lawrence County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		091	Saratoga County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		093	Schenectady County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		095	Schoharie County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		097	Schuyler County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		099	Seneca County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		101	Steuben County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		103	Suffolk County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		105	Sullivan County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		107	Tioga County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		109	Tompkins County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		111	Ulster County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		113	Warren County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		115	Washington County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		117	Wayne County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		119	Westchester County	12.8	12.6	12.1	9.0	6.8	6.7	6.6	6.7	6.9	10.3	11.7	12.5
		121	Wyoming County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
		123	Yates County	12.7	12.7	12.6	10.9	8.6	8.3	8.3	8.2	8.2	9.6	10.7	11.4
Oxygen Weight Percent															
		001	Albany County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		003	Allegany County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		005	Bronx County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		007	Broome County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		009	Cattaraugus County	0.8965	1.0344	0.8275	0.6551	0.8965	0.5862	0.8275	0.9654	0.6551	0.6896	0.9310	0.8965
		011	Cayuga County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		013	Chautauqua County	0.8965	1.0344	0.8275	0.6551	0.8965	0.5862	0.8275	0.9654	0.6551	0.6896	0.9310	0.8965
		015	Chemung County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		017	Chenango County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		019	Clinton County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		021	Columbia County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		023	Cortland County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		025	Delaware County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		027	Dutchess County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		029	Erie County	0.8965	1.0344	0.8275	0.6551	0.8965	0.5862	0.8275	0.9654	0.6551	0.6896	0.9310	0.8965
		031	Essex County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		033	Franklin County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		035	Fulton County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		037	Genesee County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		039	Greene County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		041	Hamilton County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		043	Herkimer County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		045	Jefferson County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		047	Kings County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		049	Lewis County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		051	Livingston County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		053	Madison County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
36	*NEW YORK*	055	Monroe County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
	(cont'd)	057	Montgomery County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		059	Nassau County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		061	New York County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		063	Niagara County	0.8965	1.0344	0.8275	0.6551	0.8965	0.5862	0.8275	0.9654	0.6551	0.6896	0.9310	0.8965
		065	Oneida County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		067	Onondaga County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		069	Ontario County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		071	Orange County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		073	Orleans County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		075	Oswego County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		077	Otsego County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		079	Putnam County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		081	Queens County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		083	Rensselaer County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		085	Richmond County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		087	Rockland County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		089	St. Lawrence County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		091	Saratoga County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		093	Schenectady County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		095	Schoharie County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		097	Schuyler County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		099	Seneca County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		101	Steuben County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		103	Suffolk County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		105	Sullivan County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		107	Tioga County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		109	Tompkins County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		111	Ulster County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		113	Warren County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		115	Washington County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		117	Wayne County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		119	Westchester County	1.8932	1.9467	1.8932	1.8753	1.9646	1.9467	1.9646	1.8217	1.9646	1.8217	1.8574	1.6431
		121	Wyoming County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
		123	Yates County	0.8751	1.0180	0.8216	0.6430	0.8930	0.5894	0.8216	0.9466	0.6787	0.6965	0.9466	0.8930
Gasoline Sulfur, ppm															
		001	Albany County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		003	Allegany County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		005	Bronx County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		007	Broome County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		009	Cattaraugus County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		011	Cayuga County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		013	Chautauqua County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		015	Chemung County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		017	Chenango County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		019	Clinton County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		021	Columbia County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		023	Cortland County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		025	Delaware County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
36	*NEW YORK*	027	Dutchess County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
	(cont'd)	029	Erie County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		031	Essex County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		033	Franklin County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		035	Fulton County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		037	Genesee County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		039	Greene County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		041	Hamilton County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		043	Herkimer County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		045	Jefferson County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		047	Kings County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		049	Lewis County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		051	Livingston County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		053	Madison County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		055	Monroe County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		057	Montgomery County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		059	Nassau County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		061	New York County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		063	Niagara County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		065	Oneida County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		067	Onondaga County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		069	Ontario County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		071	Orange County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		073	Orleans County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		075	Oswego County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		077	Otsego County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		079	Putnam County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		081	Queens County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		083	Rensselaer County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		085	Richmond County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		087	Rockland County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		089	St. Lawrence County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		091	Saratoga County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		093	Schenectady County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		095	Schoharie County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		097	Schuyler County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		099	Seneca County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		101	Steuben County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		103	Suffolk County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		105	Sullivan County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		107	Tioga County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		109	Tompkins County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		111	Ulster County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		113	Warren County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		115	Washington County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		117	Wayne County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		119	Westchester County	210.0	220.0	180.0	200.0	220.0	210.0	220.0	190.0	190.0	220.0	200.0	240.0
		121	Wyoming County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0
		123	Yates County	260.0	250.0	250.0	230.0	310.0	320.0	340.0	290.0	270.0	250.0	250.0	210.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
42	**PENNSYLVANIA**														
RVP, psi															
		001	Adams County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		003	Allegheny County	13.5	13.5	11.0	11.0	7.8	7.8	7.8	7.8	7.8	11.0	11.0	13.5
		005	Armstrong County	13.5	13.5	11.0	11.0	7.8	7.8	7.8	7.8	7.8	11.0	11.0	13.5
		007	Beaver County	13.5	13.5	11.0	11.0	7.8	7.8	7.8	7.8	7.8	11.0	11.0	13.5
		009	Bedford County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		011	Berks County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		013	Blair County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		015	Bradford County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		017	Bucks County	13.5	13.5	10.6	10.6	6.7	6.7	6.7	6.7	6.7	10.6	10.6	13.5
		019	Butler County	13.5	13.5	11.0	11.0	7.8	7.8	7.8	7.8	7.8	11.0	11.0	13.5
		021	Cambria County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		023	Cameron County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		025	Carbon County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		027	Centre County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		029	Chester County	13.5	13.5	10.6	10.6	6.7	6.7	6.7	6.7	6.7	10.6	10.6	13.5
		031	Clarion County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		033	Clearfield County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		035	Clinton County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		037	Columbia County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		039	Crawford County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		041	Cumberland County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		043	Dauphin County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		045	Delaware County	13.5	13.5	10.6	10.6	6.7	6.7	6.7	6.7	6.7	10.6	10.6	13.5
		047	Elk County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		049	Erie County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		051	Fayette County	13.5	13.5	11.0	11.0	7.8	7.8	7.8	7.8	7.8	11.0	11.0	13.5
		053	Forest County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		055	Franklin County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		057	Fulton County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		059	Greene County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		061	Huntingdon County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		063	Indiana County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		065	Jefferson County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		067	Juniata County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		069	Lackawanna County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		071	Lancaster County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		073	Lawrence County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		075	Lebanon County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		077	Lehigh County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		079	Luzerne County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		081	Lycoming County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		083	McKean County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		085	Mercer County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		087	Mifflin County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		089	Monroe County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		091	Montgomery County	13.5	13.5	10.6	10.6	6.7	6.7	6.7	6.7	6.7	10.6	10.6	13.5
		093	Montour County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
42	*PENNSYLVANIA (cont'd)*	095	Northampton County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		097	Northumberland County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		099	Perry County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		101	Philadelphia County	13.5	13.5	10.6	10.6	6.7	6.7	6.7	6.7	6.7	10.6	10.6	13.5
		103	Pike County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		105	Potter County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		107	Schuylkill County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		109	Snyder County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		111	Somerset County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		113	Sullivan County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		115	Susquehanna County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		117	Tioga County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		119	Union County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		121	Venango County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		123	Warren County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		125	Washington County	13.5	13.5	11.0	11.0	7.8	7.8	7.8	7.8	7.8	11.0	11.0	13.5
		127	Wayne County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		129	Westmoreland County	13.5	13.5	11.0	11.0	7.8	7.8	7.8	7.8	7.8	11.0	11.0	13.5
		131	Wyoming County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
		133	York County	13.5	13.5	11.0	11.0	8.7	8.7	8.7	8.7	8.7	11.0	11.0	13.5
Oxygen Weight Percent															
		001	Adams County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		003	Allegheny County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		005	Armstrong County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		007	Beaver County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		009	Bedford County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		011	Berks County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		013	Blair County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		015	Bradford County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		017	Bucks County	2.5303	2.5303	2.5303	2.5303	2.1075	2.1075	2.1075	2.1075	2.1075	2.5303	2.5303	2.5303
		019	Butler County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		021	Cambria County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		023	Cameron County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		025	Carbon County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		027	Centre County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		029	Chester County	2.5303	2.5303	2.5303	2.5303	2.1075	2.1075	2.1075	2.1075	2.1075	2.5303	2.5303	2.5303
		031	Clarion County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		033	Clearfield County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		035	Clinton County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		037	Columbia County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		039	Crawford County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		041	Cumberland County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		043	Dauphin County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		045	Delaware County	2.5303	2.5303	2.5303	2.5303	2.1075	2.1075	2.1075	2.1075	2.1075	2.5303	2.5303	2.5303
		047	Elk County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		049	Erie County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		051	Fayette County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		053	Forest County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		055	Franklin County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
42	*PENNSYLVANIA*	057	Fulton County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
	(cont'd)	059	Greene County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		061	Huntingdon County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		063	Indiana County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		065	Jefferson County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		067	Juniata County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		069	Lackawanna County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		071	Lancaster County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		073	Lawrence County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		075	Lebanon County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		077	Lehigh County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		079	Luzerne County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		081	Lycoming County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		083	McKean County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		085	Mercer County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		087	Mifflin County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		089	Monroe County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		091	Montgomery County	2.5303	2.5303	2.5303	2.5303	2.1075	2.1075	2.1075	2.1075	2.1075	2.5303	2.5303	2.5303
		093	Montour County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		095	Northampton County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		097	Northumberland County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		099	Perry County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		101	Philadelphia County	2.5303	2.5303	2.5303	2.5303	2.1075	2.1075	2.1075	2.1075	2.1075	2.5303	2.5303	2.5303
		103	Pike County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		105	Potter County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		107	Schuylkill County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		109	Snyder County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		111	Somerset County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		113	Sullivan County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		115	Susquehanna County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		117	Tioga County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		119	Union County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		121	Venango County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		123	Warren County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		125	Washington County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		127	Wayne County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		129	Westmoreland County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		131	Wyoming County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
		133	York County	0.1965	0.1965	0.2322	0.2322	0.2679	0.2679	0.2679	0.2679	0.2679	0.2322	0.2322	0.1965
Gasoline Sulfur, ppm															
		001	Adams County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		003	Allegheny County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		005	Armstrong County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		007	Beaver County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		009	Bedford County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		011	Berks County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		013	Blair County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		015	Bradford County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		017	Bucks County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
42	*PENNSYLVANIA*	019	Butler County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
	(cont'd)	021	Cambria County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		023	Cameron County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		025	Carbon County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		027	Centre County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		029	Chester County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		031	Clarion County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		033	Clearfield County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		035	Clinton County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		037	Columbia County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		039	Crawford County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		041	Cumberland County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		043	Dauphin County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		045	Delaware County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		047	Elk County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		049	Erie County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		051	Fayette County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		053	Forest County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		055	Franklin County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		057	Fulton County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		059	Greene County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		061	Huntingdon County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		063	Indiana County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		065	Jefferson County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		067	Juniata County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		069	Lackawanna County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		071	Lancaster County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		073	Lawrence County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		075	Lebanon County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		077	Lehigh County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		079	Luzerne County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		081	Lycoming County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		083	McKean County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		085	Mercer County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		087	Mifflin County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		089	Monroe County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		091	Montgomery County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		093	Montour County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		095	Northampton County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		097	Northumberland County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		099	Perry County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		101	Philadelphia County	279.0	279.0	279.0	279.0	129.0	129.0	129.0	129.0	129.0	279.0	279.0	279.0
		103	Pike County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		105	Potter County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		107	Schuylkill County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		109	Snyder County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		111	Somerset County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		113	Sullivan County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		115	Susquehanna County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
42	*PENNSYLVANIA (cont'd)*	117	Tioga County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		119	Union County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		121	Venango County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		123	Warren County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		125	Washington County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		127	Wayne County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		129	Westmoreland County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		131	Wyoming County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
		133	York County	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
44	**RHODE ISLAND**														
RVP, psi															
		001	Bristol County	12.5	12.5	10.1	10.1	6.9	6.9	6.9	6.9	6.9	10.1	10.1	12.5
		003	Kent County	12.5	12.5	10.1	10.1	6.9	6.9	6.9	6.9	6.9	10.1	10.1	12.5
		005	Newport County	12.5	12.5	10.1	10.1	6.9	6.9	6.9	6.9	6.9	10.1	10.1	12.5
		007	Providence County	12.5	12.5	10.1	10.1	6.9	6.9	6.9	6.9	6.9	10.1	10.1	12.5
		009	Washington County	12.5	12.5	10.1	10.1	6.9	6.9	6.9	6.9	6.9	10.1	10.1	12.5
Oxygen Weight Percent															
		001	Bristol County	1.7110	1.7110	1.6801	1.6801	1.6745	1.6745	1.6745	1.6745	1.6745	1.6801	1.6801	1.7110
		003	Kent County	1.7110	1.7110	1.6801	1.6801	1.6745	1.6745	1.6745	1.6745	1.6745	1.6801	1.6801	1.7110
		005	Newport County	1.7110	1.7110	1.6801	1.6801	1.6745	1.6745	1.6745	1.6745	1.6745	1.6801	1.6801	1.7110
		007	Providence County	1.7110	1.7110	1.6801	1.6801	1.6745	1.6745	1.6745	1.6745	1.6745	1.6801	1.6801	1.7110
		009	Washington County	1.7110	1.7110	1.6801	1.6801	1.6745	1.6745	1.6745	1.6745	1.6745	1.6801	1.6801	1.7110
Gasoline Sulfur, ppm															
		001	Bristol County	193.0	193.0	166.4	166.4	131.0	131.0	131.0	131.0	131.0	166.4	166.4	193.0
		003	Kent County	193.0	193.0	166.4	166.4	131.0	131.0	131.0	131.0	131.0	166.4	166.4	193.0
		005	Newport County	193.0	193.0	166.4	166.4	131.0	131.0	131.0	131.0	131.0	166.4	166.4	193.0
		007	Providence County	193.0	193.0	166.4	166.4	131.0	131.0	131.0	131.0	131.0	166.4	166.4	193.0
		009	Washington County	193.0	193.0	166.4	166.4	131.0	131.0	131.0	131.0	131.0	166.4	166.4	193.0

Table C-1 (continued)

FIPS_State	State	FIPS_County	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
50	**VERMONT**														
RVP, psi															
		001	Addison County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		003	Bennington County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		005	Caledonia County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		007	Chittenden County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		009	Essex County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		011	Franklin County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		013	Grand Isle County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		015	Lamoille County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		017	Orange County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		019	Orleans County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		021	Rutland County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		023	Washington County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		025	Windham County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
		027	Windsor County	9.5	9.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	9.5
Oxygen Weight Percent															
		001	Addison County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		003	Bennington County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		005	Caledonia County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		007	Chittenden County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		009	Essex County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		011	Franklin County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		013	Grand Isle County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		015	Lamoille County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		017	Orange County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		019	Orleans County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		021	Rutland County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		023	Washington County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		025	Windham County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
		027	Windsor County	0.1786	0.1786	0.2143	0.2143	0.2679	0.2679	0.2679	0.2679	0.2679	0.2143	0.2143	0.1786
Gasoline Sulfur, ppm															
		001	Addison County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		003	Bennington County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		005	Caledonia County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		007	Chittenden County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		009	Essex County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		011	Franklin County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		013	Grand Isle County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		015	Lamoille County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		017	Orange County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		019	Orleans County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		021	Rutland County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		023	Washington County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		025	Windham County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3
		027	Windsor County	209.3	209.3	209.3	209.3	183.1	183.1	183.1	183.1	183.1	209.3	209.3	209.3

G-2: Development of Emissions Projections

Mid-Atlantic Regional Air Management Association

Development of Emission Projections For 2009, 2012, and 2018 For NonEGU Point, Area, and Nonroad Source In the MANE-VU Region

Final Report

February, 2007

About MARAMA

The Mid-Atlantic Regional Air Management Association is an association of ten state and local air pollution control agencies. MARAMA's mission is to strengthen the skills and capabilities of member agencies and to help them work together to prevent and reduce air pollution impacts in the Mid-Atlantic Region.

MARAMA provides cost-effective approaches to regional collaboration by pooling resources to develop and analyze data, share ideas, and train staff to implement common requirements.

The following State and Local governments are MARAMA members: Delaware, the District of Columbia, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia, Philadelphia, and Allegheny County, Pennsylvania.

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About MACTEC Federal Programs, Inc.

MACTEC, Inc. is a leader in the engineering, environmental and remedial construction industries. MACTEC provides premier management, technical, and professional services to help clients successfully manage complex businesses, projects, and facilities. MACTEC Federal Programs, Inc. is a division of MACTEC that provides these same services tailored to meet the unique needs of government agencies, including state/local agencies and federal agencies.

Development of Emission Projections for 2009, 2012, and 2018 for NonEGU Point, Area, and Nonroad Sources in the MANE-VU Region

Final Technical Support Document

Prepared for:

Mid-Atlantic Regional Air Management Association (MARAMA)

Prepared by:

MACTEC Federal Programs, Inc.

February 28, 2007

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Acronyms and Abbreviations

Acronym	Description
AEO	Annual Energy Outlook
BOTW	Beyond-on-the-Way emission controls
CAIR	Clean Air Interstate Rule
EGAS 5.0	Economic Growth Analysis System Version 5.0
EGU	Electric Generating Unit
EIA	Energy Information Agency
EPA	U.S. Environmental Protection Agency
IDA	Inventory Data Analyzer (data format used by SMOKE modeling system)
IPM	Integrated Planning Model
MANE-VU	Mid-Atlantic/Northeast Visibility Union
MARAMA	Mid-Atlantic Regional Air Management Association
MOBILE6	U.S. EPA's emission model for onroad sources
NESCAUM	Northeast States for Coordinated Air Use Management
NH3	Ammonia
NIF3.0	National Emission Inventory Input Format Version 3.0
NMIM	National Mobile Inventory Model
NONROAD	U.S. EPA's emission model for certain types of nonroad equipment
NOx	Oxides of nitrogen
OTB/OTW	On-the-Books/On-the-Way
OTC	Ozone Transport Commission
PM10-PRI	Particulate matter less than or equal to 10 microns in diameter that includes both the filterable and condensable components of particulate matter
PM25-PRI	Particulate matter less than or equal to 2.5 microns in diameter that includes both the filterable and condensable components of particulate matter
SIC	Standard Industrial Classification code
SIP	State Implementation Plan
SCC	Source Classification Code
SMOKE	Sparse Matrix Operator Kernel Emissions Modeling System
SO2	Sulfur dioxide
VOC	Volatile organic compounds

1.0 EXECUTIVE SUMMARY

This report was prepared for the Mid-Atlantic Regional Air Management Association (MARAMA) as part of an effort to assist states in developing State Implementation Plans (SIPs) for ozone, fine particles, and regional haze. It describes the data sources, methods, and results for emission forecasts for three years, three emission sectors, two emission control scenarios; seven pollutants, and 11 states plus the District of Columbia. The following is a summary of the future year inventories that were developed:

- The three projection years are 2009, 2012, and 2018.
- The three source sectors are non-Electric Generating Units (non-EGUs), area sources, and nonroad mobile sources. (Note: under separate efforts, MANE-VU prepared EGU projections using the Integrated Planning Model {IPM} and onroad mobile source projections using the SMOKE emission modeling system).
- The two emission control scenarios are: a) a combined "on-the-books/on-the-way" (OTB/W) control strategy accounting for emission control regulations already in place as well as emission control regulations that are not yet finalized but are likely to achieve additional reductions by 2009; and b) a "beyond-on-the-way" (BOTW) scenarios to account for controls from potential new regulations that may be necessary to meet attainment and other regional air quality goals.
- The seven pollutants are sulfur dioxide (SO2), oxides of nitrogen (NOx), volatile organic compounds (VOC), carbon monoxide (CO), particulate matter less than or equal to 10 microns in diameter that includes both the filterable and condensable components of particulate matter (PM10-PRI), particulate matter less than or equal to 2.5 microns in diameter that includes both the filterable and condensable components of particulate matter (PM25-PRI), and ammonia (NH3).
- The states are those that comprise the Mid-Atlantic/Northeast Visibility Union (MANE-VU) region. In addition to the District of Columbia, the 11 MANE-VU states are Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

The results of the emission projections are summarized in Table 1-1 and Figures 1-1 to 1-7.

Section 2 of this report describes how the nonEGU OTB/W emission projections were made. Section 3 describes the methods for the area source emission projections. Section 4 describes the methods for the nonroad section, including sources accounted for by the NONROAD model as well as aircraft, locomotives, and marine vessels. Section 5 describes the development of the BOTW emission projections.

Table 1-1 Summary of MANE-VU Area, NonEGU, and Nonroad Emission Inventory by Pollutant, Sector, and Year Annual Emissions (tons per year)

Pollutant	Sector	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CO	Area	1,326,796	1,283,959	1,283,959	1,260,627	1,260,627	1,211,727	1,211,727
	NonEGU	295,577	328,546	328,546	346,090	346,090	412,723	412,723
	Nonroad	4,553,124	4,969,925	4,969,925	5,099,538	5,099,538	5,401,353	5,401,353
		6,175,497	6,582,430	6,582,430	6,706,255	6,706,255	7,025,803	7,025,803
NH3	Area	249,795	294,934	294,934	312,419	312,419	341,746	341,746
	NonEGU	3,916	4,301	4,301	4,448	4,448	4,986	4,986
	Nonroad	287	317	317	337	337	369	369
		253,998	299,552	299,552	317,204	317,204	347,101	347,101
NOx	Area	265,400	278,038	265,925	281,659	261,057	284,535	263,030
	NonEGU	207,048	210,522	185,658	218,137	184,527	237,802	199,732
	Nonroad	431,631	354,850	354,850	321,935	321,935	271,185	271,185
		904,079	843,410	806,433	821,731	767,519	793,522	733,947
PM10	Area	1,452,309	1,527,586	1,527,586	1,556,316	1,550,400	1,614,476	1,607,602
	NonEGU	51,280	55,869	55,869	57,848	57,624	63,757	63,524
	Nonroad	40,114	34,453	34,453	32,445	32,445	27,059	27,059
		1,543,703	1,617,908	1,617,908	1,646,609	1,640,469	1,705,292	1,698,185
PM2.5	Area	332,521	340,049	340,049	341,875	336,779	345,419	339,461
	NonEGU	33,077	36,497	36,497	37,625	37,444	41,220	41,029
	Nonroad	36,084	30,791	30,791	28,922	28,922	23,938	23,938
		401,682	407,337	407,337	408,422	403,145	410,577	404,428
SO2	Area	286,921	304,018	304,018	305,339	202,058	305,437	190,431
	NonEGU	264,377	249,658	249,658	255,596	253,638	270,433	268,330
	Nonroad	57,257	15,651	15,651	8,731	8,731	8,643	8,643
		608,555	569,327	569,327	569,666	464,427	584,513	467,404
VOC	Area	1,528,269	1,398,982	1,363,278	1,382,803	1,339,851	1,387,882	1,334,039
	NonEGU	91,278	92,279	91,718	96,887	96,260	110,524	109,762
	Nonroad	572,751	460,922	460,922	424,257	424,257	380,080	380,080
		2,192,298	1,952,183	1,915,918	1,903,947	1,860,368	1,878,486	1,823,881

OTB/W – on-the-books/way scenario; BOTW – beyond-on-the-way scenario

Figure 1-1 2002 Base Year, OTB/OTW AND BOTW Annual CO Emissions (tons per year)

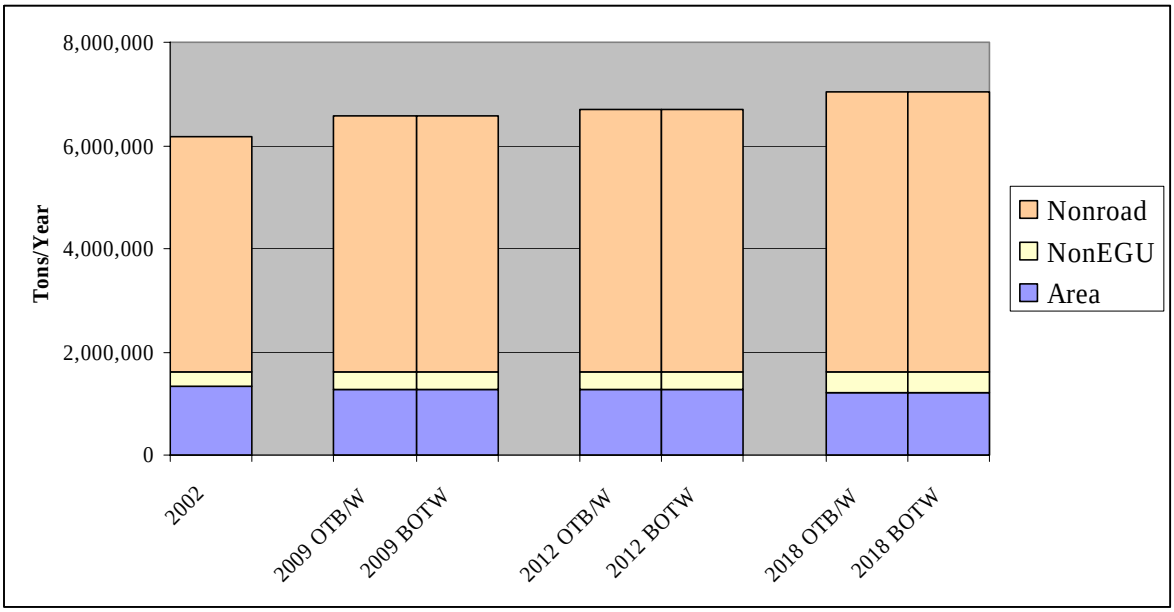


Figure 1-2 2002 Base Year, OTB/OTW AND BOTW Annual NH3 Emissions (tons per year)

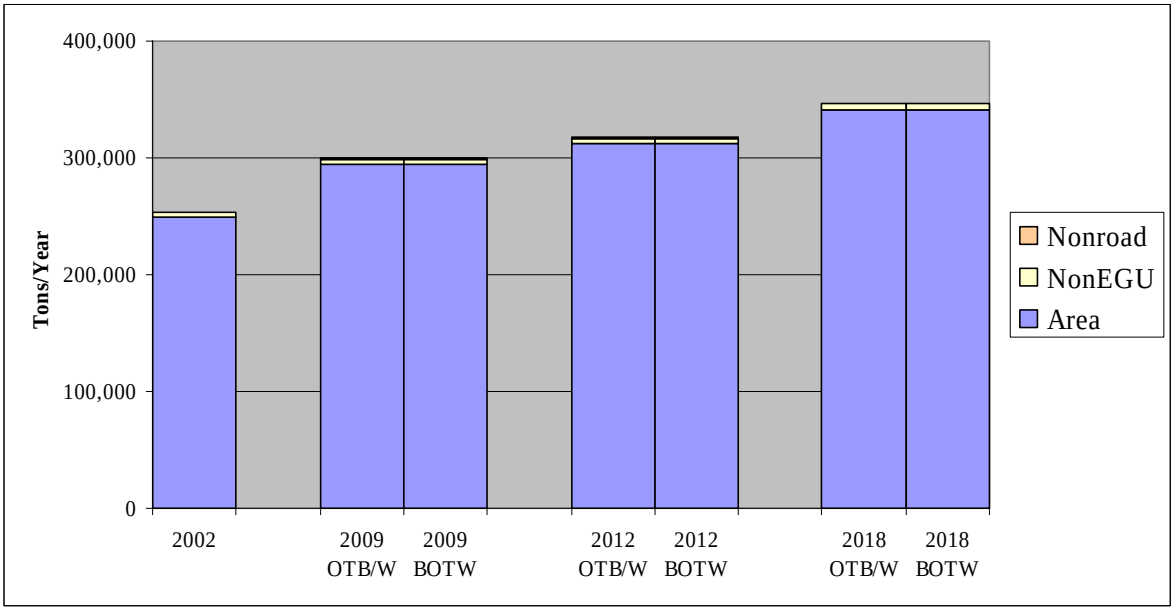


Figure 1-3 2002 Base Year, OTB/OTW AND BOTW Annual NOx Emissions (tons per year)

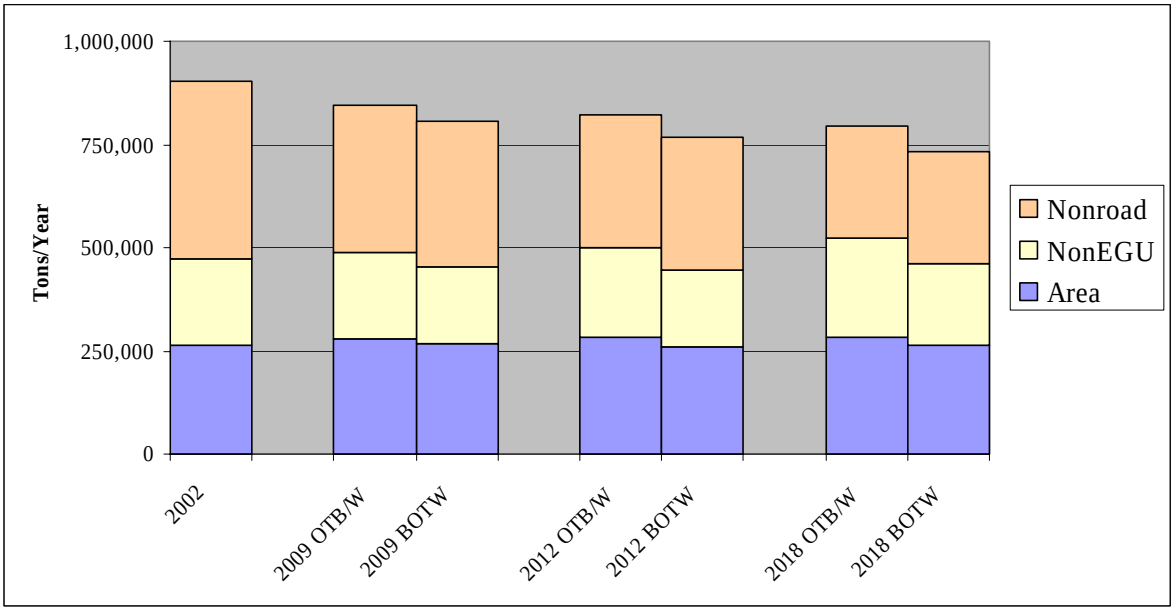


Figure 1-4 2002 Base Year, OTB/OTW AND BOTW Annual SO2 Emissions (tons per year)

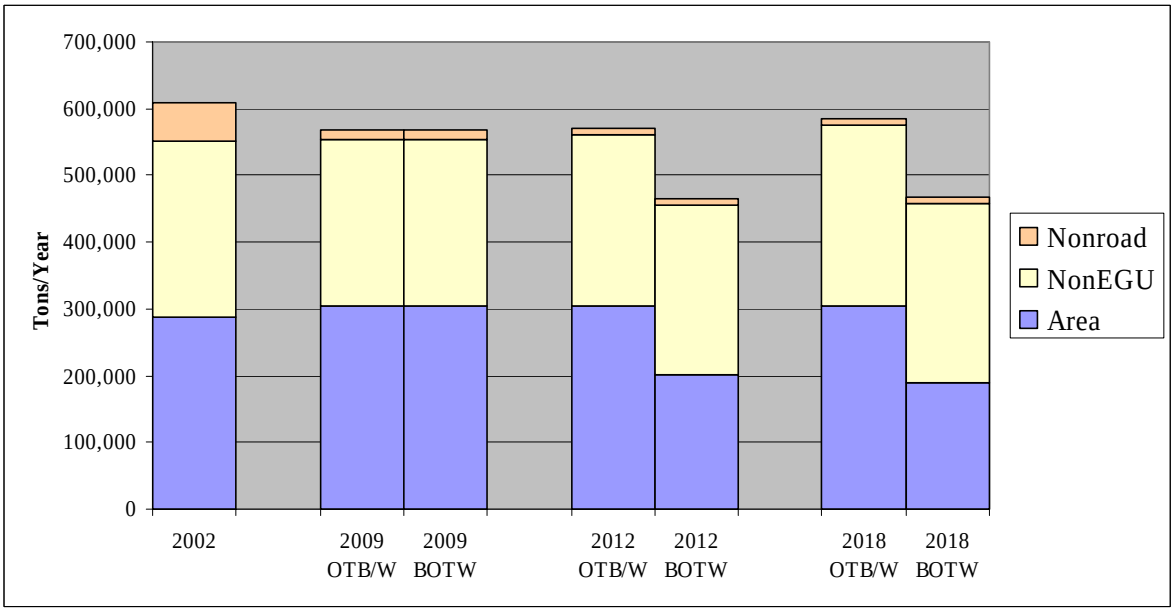


Figure 1-5 2002 Base Year, OTB/OTW AND BOTW Annual PM10 Emissions (tons per year)

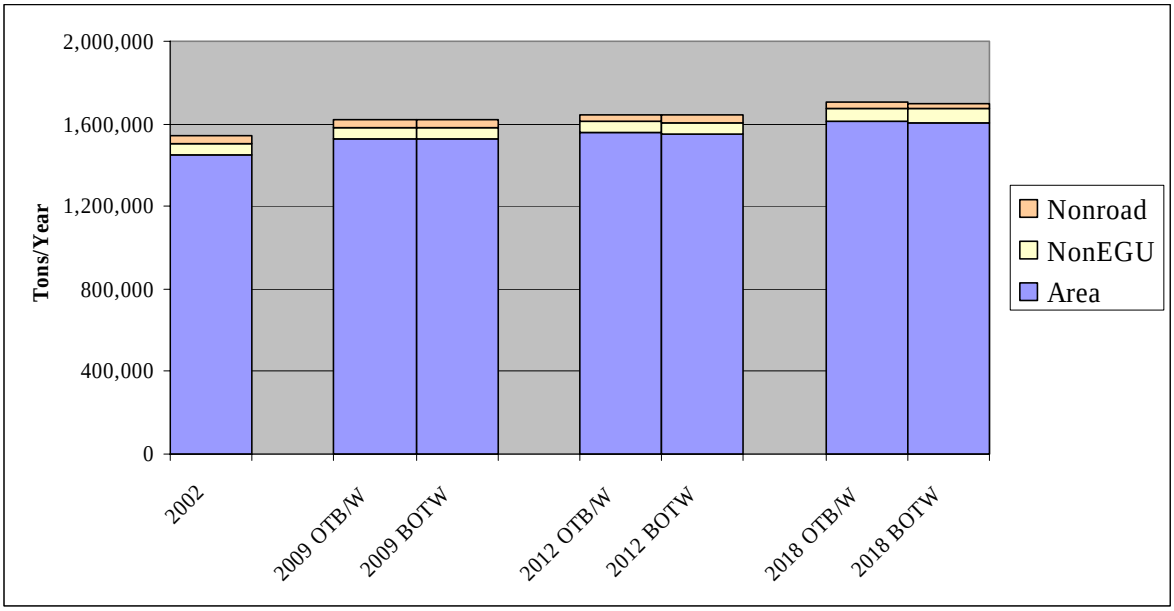


Figure 1-6 2002 Base Year, OTB/OTW AND BOTW Annual PM2.5 Emissions (tons per year)

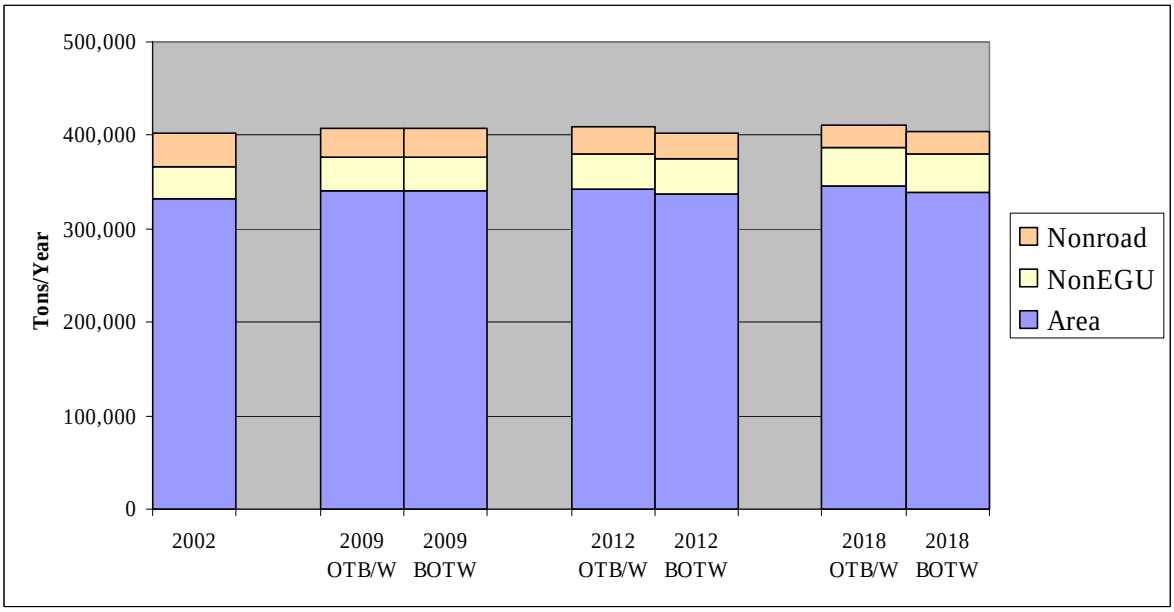
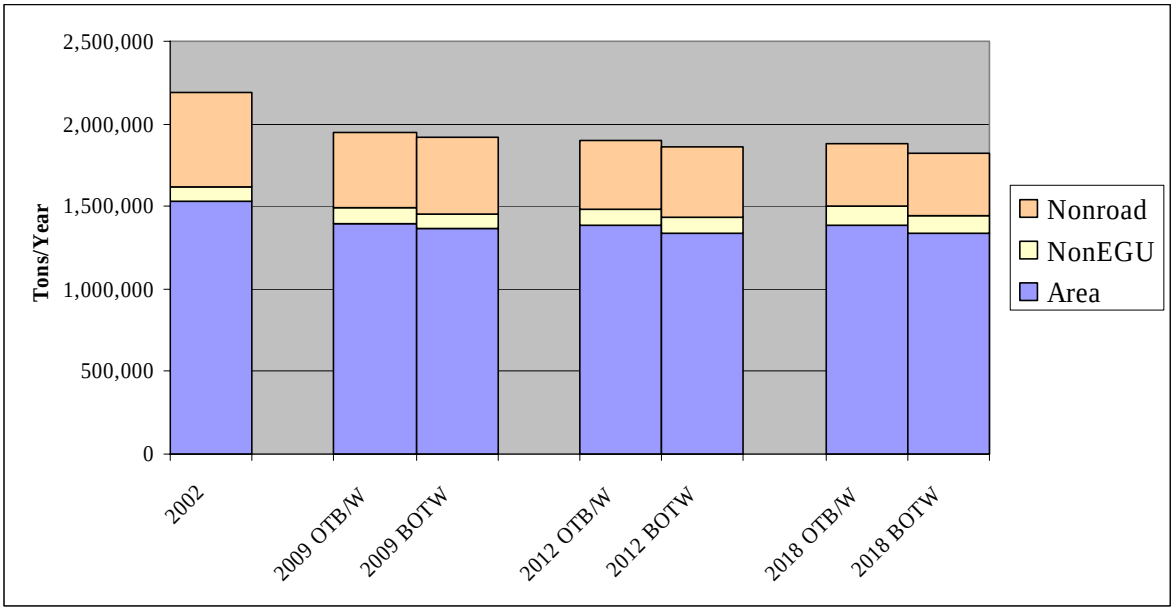


Figure 1-7 2002 Base Year, OTB/OTW AND BOTW Annual VOC Emissions (tons per year)



2.0 NONEGU POINT SOURCES

Under ideal circumstances, all stationary sources would be considered point sources for purposes of emission inventories. In practical applications, however, only sources that emit more than a specified cutoff level of pollutant are considered point sources. In general, the MANE-VU point source inventory includes only major sources (i.e., those required to obtain a Title V operating permit). Some states may include additional stationary sources that emit below the major source thresholds.

For emission projection purposes, the point source inventory is divided into two sub-sectors – the Electric Generating Unit (EGU) sector and the non-EGU sector – because different projections methods are used for these two sectors. For EGUs, MANE-VU used the Integrated Planning Model (IPM) to project future generation as well as to calculate the impact of future control programs on future emission levels.

The procedures for projecting emissions for non-EGUs are described in this section. We started with the MANE-VU 2002 point source emission inventory, which contains data for both EGUs and nonEGUs. We implemented a procedure to split the 2002 point source inventory into two components – and EGU inventory for those units accounted for in IPM, and a nonEGU inventory for those point sources not accounted for in IPM. For the nonEGU sources, we first applied growth factors to account for changes in economic activity. Next, we applied control factors to account for future emission reductions from on-the-books (OTB) control regulations and on-the-way (OTW) control regulations. The OTB control scenario accounts for post-2002 emission reductions from promulgated federal, State, local, and site-specific control programs as of June 15, 2005. The OTW control scenario accounts for proposed (but not final) control programs that are reasonably anticipated to result in post-2002 emission reductions. We then conducted a series of quality assurance steps to ensure the development of complete, accurate, and consistent emission inventories. We provided the inventories in three formats – the National Emission Inventory Input Format (NIF), SMOKE Inventory Data Analyzer (IDA) format, and SMOKE growth/control packets. We also prepared emission summary tables by state and pollutant. Each of these activities is discussed in this section.

2.1 INITIAL 2002 POINT SOURCE EMISSION INVENTORY

The starting point for the nonEGU projections was Version 3 of the MANE-VU 2002 point source emission inventory (MANE-VU_2002_Pt_Version 3_040706.MDB). Since this file contains both EGUs and nonEGU point sources, and EGU emissions are projected using the IPM, it was necessary to split the 2002 point source file into two components.

The first component contains those emission units accounted for in the IPM forecasts. The second component contains all other point sources not accounted for in IPM.

The MANE-VU 2002 point source inventory contains a cross-reference table (xwalk {MANE-VU}) that matches IPM emission unit identifiers (ORISPL plant code and BLRID emission unit code) to MANE-VU NIF emission unit identifiers (FIPSST state code, FIPSCNTY county code, State Plant ID, State Point ID). Initially, we used this cross-reference table to split the point source file into the EGU and nonEGU components. When there was a match between the IPM ORISPL/BLRID and the MANE-VU emission unit ID, the unit was assigned to the EGU inventory; all other emission units were assigned to the nonEGU inventory. The exception to this rule was for the State of New York. The cross-reference table only contained matches at the plant level, not the emission unit level. So for New York EGUs accounted for in IPM, all emission units at a plant were assigned to the MANE-VU EGU file (including ancillary emission units not accounted for in IPM).

After performing this initial splitting of the MANE-VU point source inventory into EGU and nonEGU components, we prepared several ad-hoc QA/QC queries to verify that there was no double-counting of emissions in the EGU and nonEGU inventories:

- We reviewed the IPM parsed files {VISTASII_PC_1f_AllUnits_2009 (To Client).xls and VISTASII_PC_1f_AllUnits_2018 (To Client).xls} to identify EGUs accounted for in IPM. We compared this list of emission units to the nonEGU inventory derived from the MANE-VU cross-reference table to verify that units accounted for in IPM were not double-counted in the nonEGU inventory. As a result of this comparison, we made a few adjustments in the cross-reference table to add emission units for four plants to ensure these units accounted for in IPM were moved to the EGU inventory.

- We reviewed the nonEGU inventory to identify remaining emission units with an Standard Industrial Classification (SIC) code of “4911 Electrical Services” or Source Classification Code of “1-01-xxx-xx External Combustion Boiler, Electric Generation”. We compared the list of sources meeting these selection criteria to the IPM parsed file to ensure that these units were not double-counted.

- We compared the number of records for each NIF table in the original 2002 point source file to the 2002 EGU and 2002 nonEGU files. We determined that the sum of the number of records in the EGU file and the number of records in the nonEGU file equaled the number of records in the original 2002 point source file.

- We compared the emissions by pollutant and state in the original 2002 point source file to the 2002 EGU file and 2002 nonEGU files. We determined that the sum of the emissions in the EGU file and the emissions in the nonEGU file equaled the emissions in the original 2002 point source file.

As a result of this procedure, we created separate sets of NIF tables for 2002 for EGUs (i.e., units accounted for in IPM) and nonEGUs. The nonEGU set of 2002 NIF tables were used in all subsequent projections for 2009/2012/2018.

After release of Version 3 of the MANE-VU 2002 inventory, New Jersey discovered that fugitive emissions from petroleum refineries were missing from Version 3. New Jersey supplied MACTEC with the emission unit identifiers for the fugitive releases, and the appropriate records were added to the 2002 NIF files.. MACTEC used these revised fugitive estimates for projecting emissions to 2009/2012/2018.

2.2 NONEGU POINT SOURCE GROWTH FACTORS

The nonEGU growth factors were developed using three sets of data:

- The U.S. EPA's Economic Growth and Analysis System Version 5.0 (EGAS 5.0) using the default SCC configuration. EGAS 5.0 generates growth factors from REMI's 53 Sector Policy Insight Model Version 5.5, the U.S. Department of Energy (DOE) Annual Energy Outlook 2004 (AEO2004) fuel use projections, and national vehicle mile travel projections from EPA's MOBILE 4.1 Fuel Combustion Model;

- The DOE's Annual Energy Outlook 2005 (AEO2005) fuel consumption forecasts were used to replace the AEO2004 forecasts that are used as the default values in EGAS 5.0; and

- State-supplied population, employment, and other emission projection data.

The priority for applying these growth factors was to first use the state-supplied projection data (if available). If no state-supplied data are available, then we used the AEO2005 projection factors for fuel consumption sources. If data from these two sources were not available, we used the EGAS 5.0 default SCC configuration. Appendix A lists the nonEGU point source growth factors used for this study.

2.2.1 EGAS 5.0 Growth Factors

EGAS is an EPA-developed economic and activity forecast tool that provides credible growth factors for developing emission inventory projections. Growth factors are

generated using national- and regional-economic forecasts. For nonEGUs, the primary economic activity data sets in EGAS 5.0 are:

- State-specific growth rates from the Regional Economic Model, Inc. (REMI) Policy Insight® model, version 5.5. The REMI socioeconomic data (output by industry sector, population, farm sector value added, and gasoline and oil expenditures) are available by 4-digit SIC code at the State level.
- Energy consumption data from the DOE's Energy Information Administration's (EIA) *Annual Energy Outlook 2004, with Projections through 2025* for use in generating growth factors for non-EGU fuel combustion sources. These data include regional or national fuel-use forecast data that were mapped to specific SCCs for the non-EGU fuel use sectors (e.g., commercial coal, industrial natural gas). Growth factors are reported at the Census division level. These Census divisions represent a group of States (e.g., the South Atlantic division includes Delaware, the District of Columbia, and Maryland; the Middle Atlantic division includes New Jersey, New York, and Pennsylvania; the New England division includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont). Although one might expect different growth rates in each of these States due to unique demographic and socioeconomic trends, all States within each division received the same growth rate.

EGAS uses these economic activity datasets and a set of cross-reference files to generate growth factors by Standard Industrial Classification (SIC) code, Source Classification Code (SCC), or Maximum Achievable Control Technology (MACT) codes. Growth factors for 2009, 2012, and 2018 were calculated using 2002 as the base year at the State and SCC level. County-specific growth factors are not available in EGAS 5.0.

There were several SCCs in the MANE-VU 2002 inventory that are not included in the EGAS 5.0 files. As a result, EGAS did not generate growth factors for those SCCs. MACTEC assigned growth factors for the missing SCCs by assigning a surrogate SCC that best represented the missing SCC.

2.2.2 AEO2005 Growth Factors

The default version of EGAS 5.0 uses the DOE's AEO2004 forecasts. We replaced these data with the more recent AEO2005 forecasts to improve the emissions growth factors produced. Using ACCESS, we created a copy of the "DOE EGAS 5" dataset. The dataset includes three tables. One table contains the projection data values from 2001-2025. The other two tables are the MACT and SCC crosswalk tables. The crosswalk tables are linked

to the projection table via a "model code". Using the copy of AEO2004 data, we updated the corresponding projection tables with data from the AEO2005 located at: http://www.eia.doe.gov/oiaf/aeo/supplement/supref.html . Using the data and descriptions from the new tables, we matched the projection data to the appropriate model codes and then built a table identical to the DOE EGAS 5 dataset with the new 2005 AEO data. The resulting ACCESS dataset contains a projection data table with the exact same structure as the original except with the new data. The SCC and MACT crosswalks did not require any updates since the model code assignments were not changed in the new data table.

2.2.3 State Specific Growth Factors

In addition to the growth data described above, we received growth projections from several MANE-VU states to be used instead of the default EGAS or AEO2005 growth factors. The following paragraphs describe the growth factors used for each state.

2.2.3.1 Connecticut

Connecticut provided state-level employment-based growth factors for various SIC categories derived from CT Department of Labor (CTDOL) projections. For many manufacturing sectors, employment is projected to decline, indicating the likelihood of reduced activity levels and emissions for those sectors. Associated growth factors are less than one. To ensure consistency within a facility, CTDEP indicated that the employment-based growth factors be used wherever possible, as matched by SIC. MACTEC used the growth factors by SIC code for all sources in CT, including those fuel combustion sources that would otherwise have been projected using the AEO2005 forecasts.

2.2.3.2 Delaware

Delaware provided state-level employment data from the Department of Labor by NAICS codes for 2002 and 2012. We used these data to calculate the growth factor from 2002 to 2012 and interpolated these data to derive growth factors for 2009 and 2018. We matched these industry NAICS groupings to SCC codes in order to create SCC specific growth factors for non-EGU point sources.

2.2.3.3 District of Columbia

DC indicated that it preferred to use the EGAS 5.0 growth factors, with the enhancement of using the DOE's 2005 Annual Energy Outlook data for combustion sources.

2.2.3.4 Maine

Maine indicated that it preferred to use the EGAS 5.0 growth factors and the DOE's 2005 Annual Energy Outlook data for combustion sources.

2.2.3.5 Maryland

Maryland provided growth factors by SCC for all counties in the State. These growth factors were derived from a variety source sources, including the MWCOG Cooperative Forecast 7.0, the BMC Round 6A Cooperative Forecast (prepared by the MD Dept. of Planning, May 2004), and EGAS 5.0.

2.2.3.6 Massachusetts

Massachusetts also provided a link to employment projections for 2000-2010 for very narrow occupational categories that are not directly correlated with SIC or SCC codes. Since we could not match the occupational titles in the Massachusetts employment projections with SIC or SCC codes, MACTEC used the EGAS 5.0 growth factors (with the AEO2005 enhancement for combustion sources) for projecting emissions from nonEGU sources.

2.2.3.7 New Hampshire

New Hampshire indicated that it preferred to use the EGAS 5.0 growth factors, with the enhancement of using the DOE's 2005 Annual Energy Outlook data for combustion sources.

2.2.3.8 New Jersey

New Jersey indicated that it preferred to use the EGAS 5.0 growth factors, with the enhancement of using the DOE's 2005 Annual Energy Outlook data for combustion sources.

2.2.3.9 New York

New York provided county-level employment data for 12 counties in the New York City metro area for 2002, 2009, 2012, and 2018. The employment projections are for broad industry categories not directly correlated with SIC or SCC codes. Since we could not match the 12-county employment projections with SIC or SCC codes, MACTEC used the EGAS 5.0 growth factors (with the AEO2005 enhancement for combustion sources) for projecting emissions from nonEGU sources for both the 12-county area and all other counties in the state.

2.2.3.10 Pennsylvania

Pennsylvania provided total employment projections for a subset of counties. These employment projections do not have enough detail regarding specific industrial groupings to be correlated with SIC or SCC codes. MACTEC used the EGAS 5.0 growth factors

(with the AEO2005 enhancement for combustion sources) for projecting emissions from nonEGU sources

2.2.3.11 Rhode Island

Rhode Island provided state-level employment data from the Department of Labor and Training by 3-digit NAICS codes for 2002 and 2012. We used these data to calculate the growth factor from 2002 to 2012 and interpolated these data to derive growth factors for 2009 and 2018. We matched these industry NAICS groupings to SCC codes in order to create SCC specific growth factors for non-EGU point sources.

2.2.3.12 Vermont

Vermont indicated that it preferred to use the EGAS 5.0 growth factors, with the enhancement of using the DOE's 2005 Annual Energy Outlook data for combustion sources.

2.3 NONEGU POINT SOURCE CONTROL FACTORS

The following sections document how the OTB/OTW control factors were developed for the MANE-VU future year inventories. We developed control factors to estimate emission reductions that will result from on-the-books regulations that will result in post-2002 emission reductions and proposed regulations or actions that will result in post-2002 emission reductions. Control factors were developed for the following national, regional, or state control measures:

- NOx SIP Call Phase I (NOx Budget Trading Program)
- NOx SIP Call Phase II
- NOx RACT in 1-hour Ozone SIPs
- NOx OTC 2001 Model Rule for ICI Boilers
- 2-, 4-, 7-, and 10-year MACT Standards
- Combustion Turbine and RICE MACT
- Industrial Boiler/Process Heater MACT
- Refinery Enforcement Initiative
- Source Shutdowns

In addition, states provided specific control measure information about specific sources or regulatory programs in their state. We used the state-specific data to the extent it was available.

2.3.1 NOx SIP Call Phase I

Compliance with the NOx SIP Call in the Ozone Transport Commission (OTC) states was scheduled for May 1, 2003. The requirements applied to all MANE-VU states except Maine, New Hampshire, and Vermont. While the program applies primarily to electric generating units (EGUs), the NOx SIP Call applies to non-EGUs such as large industrial boilers and turbines. The NOx SIP Call did not mandate which sources must reduce emissions; rather, it required states to meet an overall emission budget and gave them flexibility to develop control strategies to meet that budget. All states in the MANE-VU region affected by the NOx SIP Call chose to meet their NOx SIP Call requirements by participating in the NOx Budget Trading Program. We reviewed the available state rules and guidance documents to determine the affected nonEGU sources and ozone season NOx allowances for each source. Future year emissions for non-EGU boilers/turbines were capped at the allowance levels. Since the allowances are given in terms of tons per ozone season (5 months May to September), we calculated annual emissions by multiplying the ozone season allowances by a factor of 12 (annual) / 5 (ozone season). Table B-1 identifies those units included in the NOx SIP Call Phase I budget program.

Cement kilns were also included in Phase I of the NO_x SIP call. There is a cement kiln in Maine, but it is not subject to the NOx SIP call. For the cement kilns in Maryland and New York, a default control efficiency value of 25 percent was applied. For the cement kilns in Pennsylvania, the state provided their best estimates of the actual control efficiency expected for each kiln after the NOx SIP Call. Table B-2 identifies the cement kilns affected by the NOx SIP Call.

2.3.2 NOx SIP Call Phase II

The final Phase II NOx SIP Call rule was promulgated on April 21, 2004. States had until April 21, 2005, to submit SIPs meeting the Phase II NOx budget requirements. The Phase II rule applies to large IC engines, which are primarily used in pipeline transmission service at compressor stations. We have identified affected units using the same methodology as was used by EPA in the proposed Phase II rule (i.e., a large IC engine is one that emitted, on average, more than 1 ton per day during 2002). The final rule reflects a control level of 82 percent for natural gas-fired IC engines and 90 percent for diesel or dual fuel categories. Pennsylvania identified large IC engines affected by the rule. Table B-3 identifies those units included in the NOx SIP Call Phase II.

2.3.3 NOx RACT in 1-hour Ozone SIPs

Emission reductions requirements from NOx reasonably available control technology (RACT) requirements in 1-hour Ozone SIP areas were implemented in or prior to 2002.

These reductions should already be accounted for in the MANE-VU 2002 inventory since the 2002 inventory was based on 2002 actual emissions which includes any reductions due to NOx RACT.

2.3.4 NOx OTC 2001 Model Rule for ICI Boilers

The Ozone Transport Commission (OTC) developed control measures for industrial, commercial, and institutional (ICI) boilers in 2001. Information about the proposed OTC NOx emission limits by fuel type and size range was obtained from Table III-1 of *Control Measure Development Support Analysis of Ozone Transport Commission Model Rules* (E.H. Pechan & Associates, Inc., March 31, 2001). Information about the emission limits contained in the existing state rules (prior to adoption of the OTC 2001 model rule) were obtained from Tables III-2 through III-9 of the Pechan document. Information about the emission limits contained in the current state rules (as they existed in June 2006) were obtained from the individual states regulations. The percent reduction for ICI boilers was estimated by state, fuel type, and size range by comparing the current state emission limits (as they existed in June 2006) with the state emission limits as they existed in 2001. Pennsylvania adopted the OTC 2001 model rule in five southeastern counties (Bucks, Chester, Delaware, Montgomery, and Philadelphia) for boilers in the 100 to 250 million Btu/hour range. New Jersey adopted the OTC 2001 model rule for natural gas-fired boilers with a maximum heat rate of at least 100 million Btu/hour. For other states, it did not appear that the emission limits in 2006 had changed from the emission limits in 2001.

2.3.5 2-, 4-, 7-, and 10-year MACT Standards

Maximum achievable control technology (MACT) requirements were also applied, as documented in the report entitled *Control Packet Development and Data Sources*, dated July 14, 2004 (available at http://www.epa.gov/air/interstateairquality/pdfs/Non-EGU_nonpoint_Control_Development.pdf). The point source MACTs and associated emission reductions were designed from Federal Register (FR) notices and discussions with EPA's Emission Standards Division (ESD) staff. These MACT requirements apply only to units located at a major source of hazardous air pollutants (HAP). We did not apply reductions for MACT standards with an initial compliance date of 2002 or earlier, assuming that the effects of these controls are already accounted for in the inventories supplied by the States. Emission reductions were applied only for MACT standards with an initial compliance date of 2003 or greater.

Because the MANE-VU inventory does not identify HAP major sources, the reductions from post-2002 MACT standards were applied on a more general scale to all sources with certain SCCs. Every source with an SCC determined to be affected by a post-2002 MACT

standard was assigned an incremental percent reduction for the applicable MACT standard. Table B-4 shows the SCCs affected and the incremental control efficiencies applied for post-2002 MACT standards.

2.3.6 Combustion Turbine and RICE MACT

The MANE-VU projection inventory does not include the NOx co-benefit effects of the MACT regulations for Gas Turbines or stationary Reciprocating Internal Combustion Engines, which EPA estimates to be small compared to the overall inventory.

2.3.7 Industrial Boiler/Process Heater MACT

EPA anticipates ancillary reductions in PM and SO2 as a result of the Industrial Boiler/Process Heater MACT standard. The MACT applies to industrial, commercial, and institutional units firing solid fuel (coal, wood, waste, biomass) which have a design capacity greater than 10 mmBtu/hr and are located at a major source of hazardous air pollutants (HAP). The boiler design capacity field in many cases was missing from the MANE-VU emission inventory. In lieu of boiler design capacity, we identified boilers with the following SCCs that emitted greater than 10 tons/year of either SO2 or PM10

- 1-02-001-xx Industrial, Anthracite Coal
- 1-02-002-xx Industrial, Bituminous/subbituminous Coal
- 1-02-008-xx Industrial, Petroleum Coke
- 1-02-009-xx Industrial, Wood/Bark Waste
- 1-03-001-xx Commercial/Institutional, Anthracite Coal
- 1-03-002-xx Commercial/Institutional, Bituminous/subbituminous Coal
- 1-03-009-xx Commercial/Institutional, Wood/Bark Waste
- 3-90-002-89 In-Process Fuel Use, Bituminous Coal
- 3-90-002-99 In-Process Fuel Use, Bituminous Coal
- 3-90-008-89 In-Process Fuel Use, Coke
- 3-90-008-99 In-Process Fuel Use, Coke
- 3-90-009-99 In-Process Fuel Use, Wood

For these sources, we applied the average MACT control efficiencies of 4% for SO2 and 40% for PM.

2.3.8 Refinery Enforcement Initiative

Both EPA and State/local agencies have negotiated (or are in the process of negotiating) Consent Decrees that will require significant investment in pollution control technology and will result in significant emission reductions in the future. There are eight refineries in the MANE-VU inventory impacted by the settlements. The five major refinery processes that are affected by the judicial settlements are:

- Fluid Catalytic Cracking Units (FCCUs) and Fluid Coking Units (FCUs)
- Process Heaters and Boilers
- Flare Gas Recovery
- Leak Detection and Repair
- Benzene/Wastewater

As part of the development of the *Assessment of Control Technology Options for Petroleum Refineries in the Mid-Atlantic Region* (Draft Final, October 2006), MACTEC coordinated with State and local agencies to develop estimates of future year emissions based upon the settlements and recent permits that implement the provisions of those settlements.

For FCCUs/FCUs, the Consent Decree control requirements generally require the installation of wet gas scrubbers for SO2 control. Some of the units have already been permitted to include the control requirements. In those cases, specific emission limits for SO2 have already been established and were used as the best estimate of emission in 2009. In cases where specific emission limitation have not yet been specified in permits, a 90 percent SO2 control efficiency was assumed as a conservative estimate of the SO2 reductions from the installation of a wet gas scrubber.

For NOx control at FCCUs/FCUs, the Consent Decrees require selective catalytic reduction (SCR), selective non-catalytic reduction (SCNR), or optimization studies to reduce NOx emissions. Some of the units have already been permitted to include the control requirements. In those cases, specific emission limits for NOx have already been established and were used as the best estimate of emission in 2009. In cases where specific emission limitation have not yet been specified in permits, a 90 percent NOx control efficiency was assumed for SCR, and a 60 percent reduction was assumed from the installation of SNCR.

For SO2 emissions from boilers/heaters, the control requirements generally require the elimination of burning solid/liquid fuels. We identified all boilers and heaters at the eight affected refineries that burn solid or liquid fuels. For these units, we set the SO2 emissions to zero in the future year inventories.

For NOx emissions from boilers/heaters, control requirements generally apply to units greater than 40 million British thermal units (MMBtu) per hour capacity or larger. In many cases, the consent decrees establish NO_x emission reduction objectives across a number of refineries that are owned by the same firm. Therefore, the companies have some discretion in deciding which individual boilers/heaters to control as well as the control techniques to apply. Also, the consent decrees have various phase-in dates which make it difficult to determine the exact date when the reductions will be fully realized. As

part of the development of the *Assessment of Control Technology Options for Petroleum Refineries in the Mid-Atlantic Region* (Draft Final, October 2006), MACTEC coordinated with State and local agencies to develop estimates of future year emissions based upon the settlements and recent permits that implement the provisions of those settlements. Heater/boiler NOx controls for the units to which they are applied were determined to be equivalent to meeting a 0.04 lbs per million Btu NOx emission rate. Meeting this emission reduction requirement is expected to provide an average NOx emission reduction of 50 percent from 2002 levels in 2009.

The Consent Decrees also included enhanced LDAR programs (e.g., reducing the defined leak concentration, increasing the monitoring frequency, other requirements. Our best estimate is a 50% reduction in VOC emissions as a result of implementing enhanced LDAR programs similar to those required in the recent Consent Decrees. This is based on a study (http://www.rti.org/pubs/ertc_enviro_2002_final1.pdf) that estimated an enhanced LDAR program could result in a 50% reduction in fugitive VOCs.

The settlements are expected to produce additional SO2, NOx, and VOC emission reductions for flare gas recovery and wastewater operations. These emission reductions were not quantified as they are expected to produce less significant changes in the MANE-VU inventory because of the magnitude and uncertainty associated with the emissions from these units in the 2002 MANE-VU inventory.

2.3.9 Source Shutdowns

A few states indicated that significant source shutdowns have occurred since 2002 and that emissions from these sources should not be included in the future year inventories. These sources are identified in Table B-5.

2.3.10 State Specific Control Factors

Delaware provided reductions expected from the Maritrans lightering operation. VOC emissions are projected to be reduced by 34.8% by 2009, 69.3% by 2012, and 79.2% by 2018.

2.4 NONEGU POINT SOURCE QA/QC REVIEW

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, and to ensure that a full and complete inventory was developed. Quality assurance was an important component to the inventory development process and MACTEC performed the following QA steps on the nonEGU point source component of the MANE-VU future year inventories:

1. State agencies reviewed the draft growth and control factors in the summer of 2005. Changes based on these comments were implemented in the files.
2. Compared, at the emission unit-level, emissions from the IPM parsed files and the MANE-VU NIF files to verify that the splitting of the MANE-VU point source inventory into the EGU and nonEGU sectors did not result in any double county of emissions or cause units to be missing from both inventories.
3. SCC level emission summaries were prepared and evaluated to ensure that emissions were consistent and that there were no missing sources. Tier comparisons (by pollutant) were developed between the revised 2002 base year inventory and the 2009/2012/2018 projection inventories.
4. State level emission summaries were prepared and evaluated to ensure that emissions were consistent and reasonable. The summaries included base year 2002 emissions, 2009/2012/2018 projected emissions accounting only for growth, 2009/2012/2018 projected emissions accounting for both growth and emission reductions from OTB and OTW controls.
5. Emission inventory files in NIF format were provided for state agency review and comment. Changes based on these comments were implemented.
6. All final files were run through EPA's Format and Content checking software.
7. Version numbering was used for all inventory files developed. The version numbering process used a decimal system to track major and minor changes. For example, a major change would result in a version going from 1.0 to 2.0 for example. A minor change would cause a version number to go from 1.0 to 1.1. Minor changes resulting from largely editorial changes would result in a change from 1.00 to 1.01 for example.

Final QA checks were run on the revised projection inventory data set to ensure that all corrections provided by the S/L agencies and stakeholders were correctly incorporated into the S/L inventories and that there were no remaining QA issues that could be addressed during the duration of the project. After exporting the inventory to ASCII text files in NIF 3.0, the EPA QA program was run on the ASCII files and the QA output was reviewed to verify that all QA issues that could be addressed were resolved

2.5 NONEGU POINT SOURCE NIF AND SMOKE FILES

The Version 3 file names and descriptions delivered to MARAMA are shown in Table 2-1.

2.6 NONEGU POINT SOURCE EMISSION SUMMARIES

Emission summaries by state, year, and pollutant are presented in Tables 2-2 through 2-8 for CO, NH3, NOx, PM10-PRI, PM25-PRI, SO2, and VOC, respectively.

Table 2-1 NonEGU Point Source NIF, IDA, and Summary File Names

File Name	Date	Description
MANEVU_OTB2009_NonEGU_NIFV3_1.mdb	Dec. 4, 2006	Version 3.1 of 2009 OTB NonEGU source NIF inventory
MANEVU_OTB2012_NonEGU_NIFV3_1.mdb	Dec. 4, 2006	Version 3.1 of 2012 OTB NonEGU source NIF inventory
MANEVU_OTB2018_NonEGU_NIFV3_1.mdb	Dec. 4, 2006	Version 3.1 of 2018 OTB NonEGU source NIF inventory
MANEVU_OTB2009_NonEGU_IDAV3_1.txt	Nov. 22, 2006	Version 3.1 of 2009 OTB NonEGU source inventory in SMOKE IDA format
MANEVU_OTB2012_NonEGU_IDAV3_1.txt	Nov. 22, 2006	Version 3.1 of 2012 OTB NonEGU source inventory in SMOKE IDA format
MANEVU_OTB2018_NonEGU_IDA3V_2.txt	Nov. 22, 2006	Version 3.1 of 2018 OTB NonEGU source inventory in SMOKE IDA format
MANEVU OTB BOTW NonEGU V3_1 State Summary.xls	Nov. 22, 2006	Spreadsheet with state totals by pollutant for all NonEGU sources
MANEVU OTB BOTW NonEGU V3_1 State SCC Summary.xls	Dec. 4, 2006	Spreadsheet with SCC totals by state and pollutant for all NonEGU sources.

Table 2-2 NonEGU Point Sources
OTB/OTW Annual CO Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	2,157	2,251	2,306	2,415
DE	8,812	9,037	8,748	8,651
DC	247	283	299	327
ME	9,043	10,147	10,467	11,433
MD	94,536	104,012	111,174	141,342
MA	10,793	12,027	12,552	13,426
NH	774	858	871	907
NJ	8,209	10,076	10,806	12,244
NY	53,259	61,411	65,541	78,876
PA	105,815	116,430	121,251	140,909
RI	1,712	1,764	1,821	1,927
VT	220	250	254	267
Total	**295,577**	**328,546**	**346,090**	**412,724**

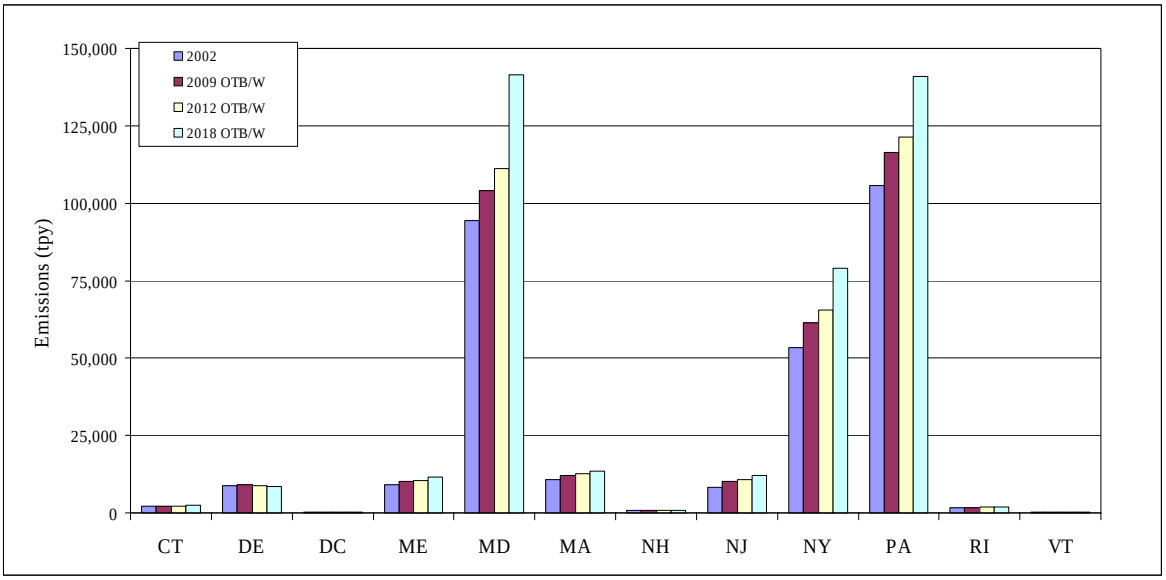


Table 2-3 NonEGU Point Sources
OTB/OTW Annual NH3 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	0	0	0	0
DE	153	145	138	134
DC	4	5	5	5
ME	700	796	809	859
MD	305	347	366	410
MA	462	510	521	563
NH	37	46	50	60
NJ	0	0	0	0
NY	1,027	1,081	1,128	1,296
PA	1,170	1,307	1,363	1,591
RI	58	64	68	68
VT	0	0	0	0
Total	**3,916**	**4,301**	**4,448**	**4,986**

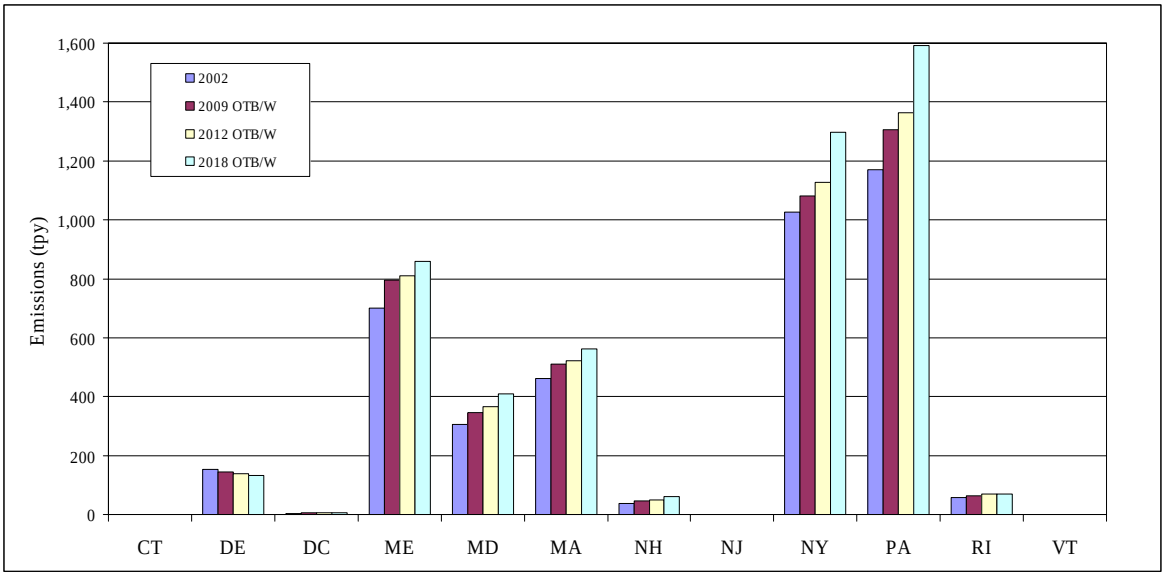


Table 2-4 NonEGU Point Sources
OTB/OTW Annual NOx Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	6,773	7,236	7,465	7,921
DE	4,372	4,076	4,135	4,246
DC	480	548	577	627
ME	12,108	14,285	14,661	15,753
MD	21,940	19,401	20,399	22,797
MA	18,292	20,603	21,372	23,040
NH	1,188	1,384	1,394	1,435
NJ	15,812	16,498	17,091	18,805
NY	34,253	33,648	34,586	37,133
PA	89,136	89,932	93,526	103,137
RI	2,308	2,449	2,471	2,442
VT	386	462	460	466
Total	**207,048**	**210,522**	**218,137**	**237,802**

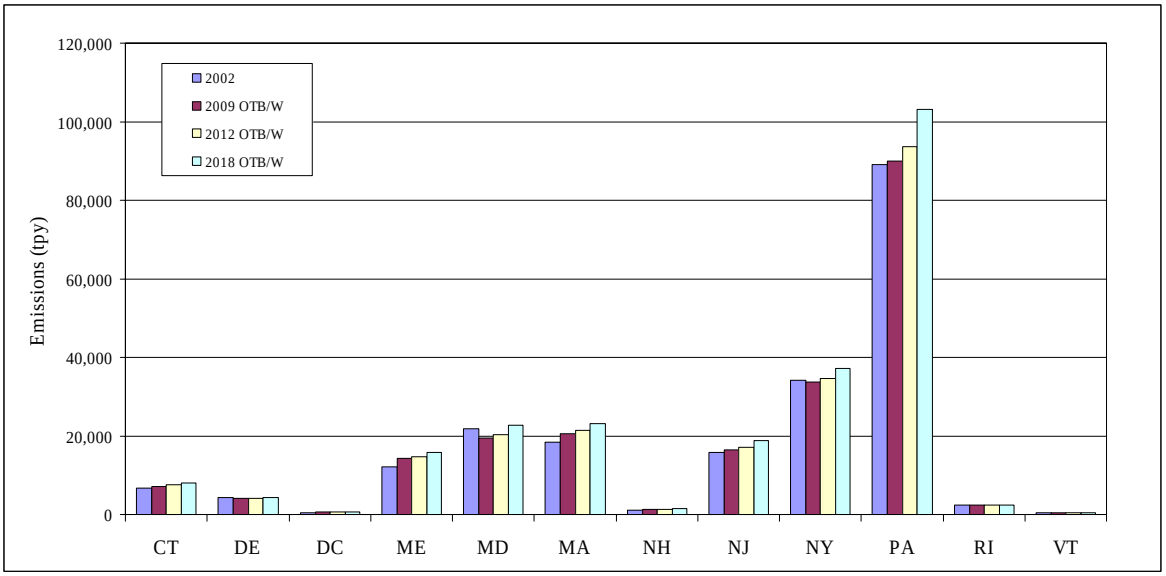


Table 2-5 NonEGU Point Sources
OTB/OTW Annual PM10-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	990	1,035	1,058	1,106
DE	1,820	1,486	1,475	1,487
DC	157	178	186	198
ME	6,120	7,088	7,133	7,496
MD	4,739	4,797	5,040	5,828
MA	4,212	5,006	5,088	5,314
NH	918	1,084	1,097	1,129
NJ	3,439	4,205	4,417	4,959
NY	5,072	5,221	5,444	6,098
PA	23,282	25,169	26,307	29,516
RI	296	333	331	330
VT	235	267	272	296
Total	**51,280**	**55,869**	**57,848**	**63,757**

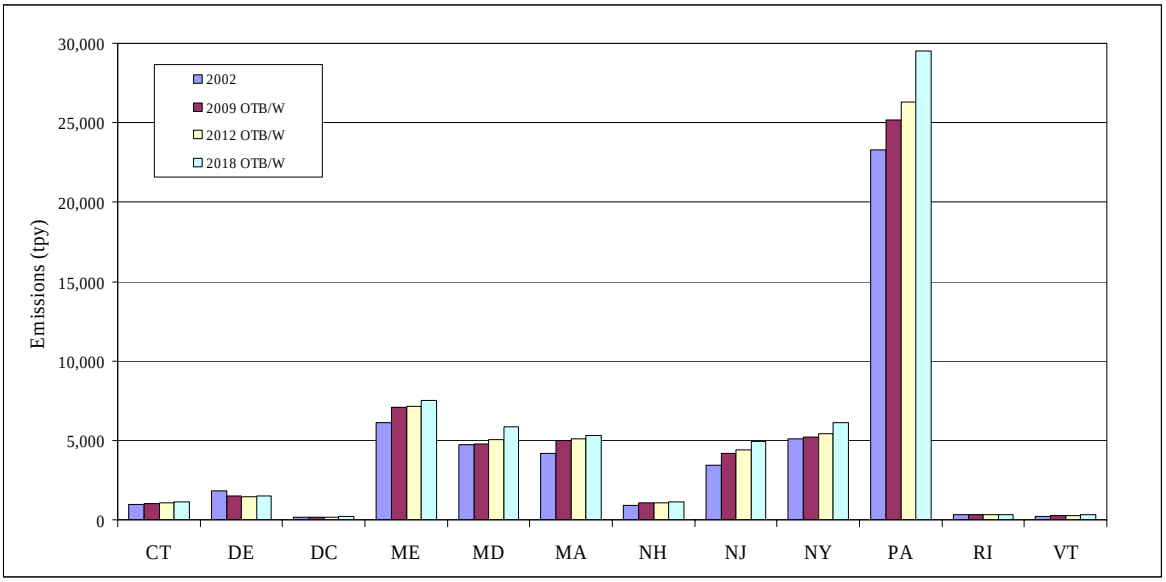


Table 2-6 NonEGU Point Sources
OTB/OTW Annual PM25-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	822	871	894	939
DE	1,606	1,256	1,245	1,254
DC	128	145	152	164
ME	4,899	5,675	5,690	5,935
MD	2,772	2,861	3,011	3,503
MA	2,953	3,554	3,574	3,660
NH	857	1,008	1,021	1,052
NJ	2,947	3,588	3,764	4,234
NY	3,355	3,535	3,688	4,161
PA	12,360	13,578	14,159	15,878
RI	180	200	198	194
VT	198	226	229	246
Total	**33,077**	**36,497**	**37,625**	**41,220**

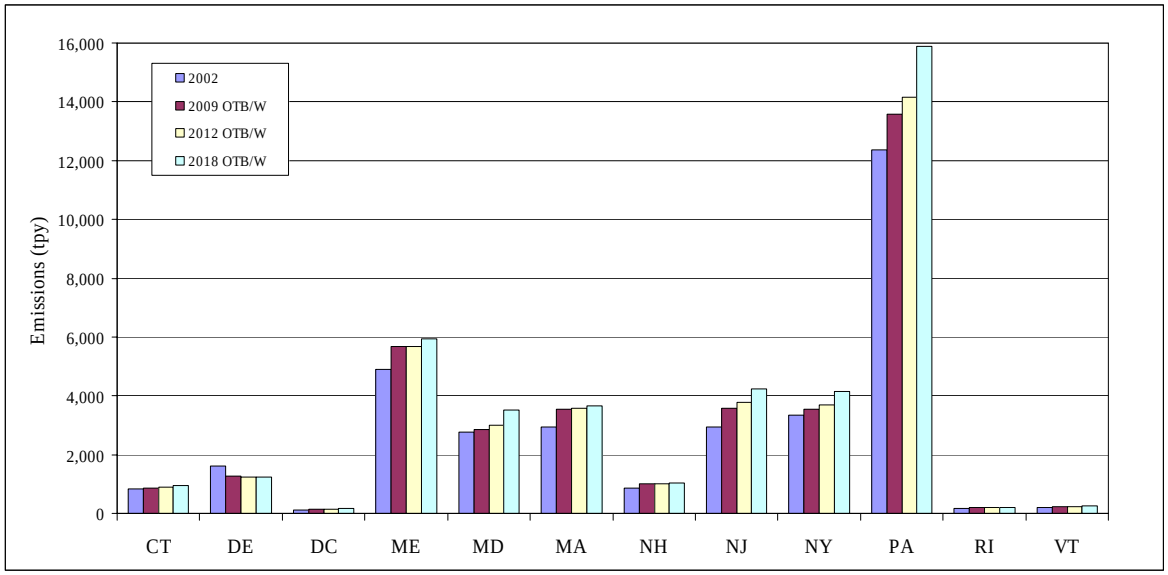


Table 2-7 NonEGU Point Sources
OTB/OTW Annual SO2 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	2,438	2,528	2,567	2,644
DE	35,706	7,117	7,401	7,610
DC	618	707	735	780
ME	14,412	18,656	18,492	18,794
MD	34,193	34,223	35,373	38,921
MA	14,766	18,185	18,442	18,955
NH	2,436	3,099	3,098	3,114
NJ	9,797	7,141	7,234	7,856
NY	58,227	62,922	64,484	67,545
PA	88,259	90,735	93,441	99,924
RI	2,651	3,163	3,182	3,164
VT	874	1,182	1,147	1,127
Total	**264,377**	**249,658**	**255,596**	**270,434**

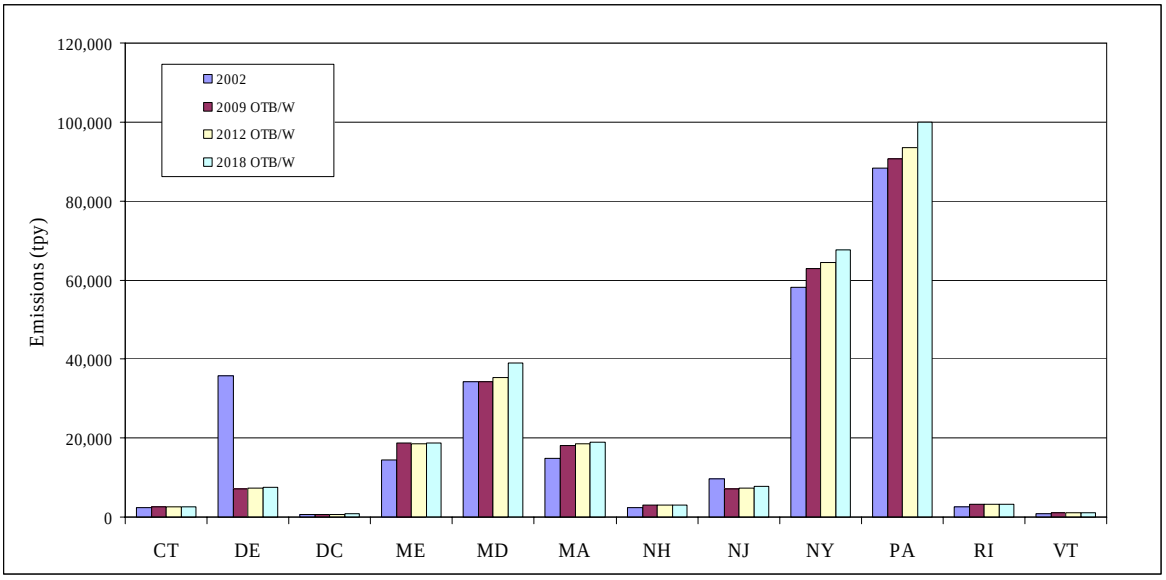
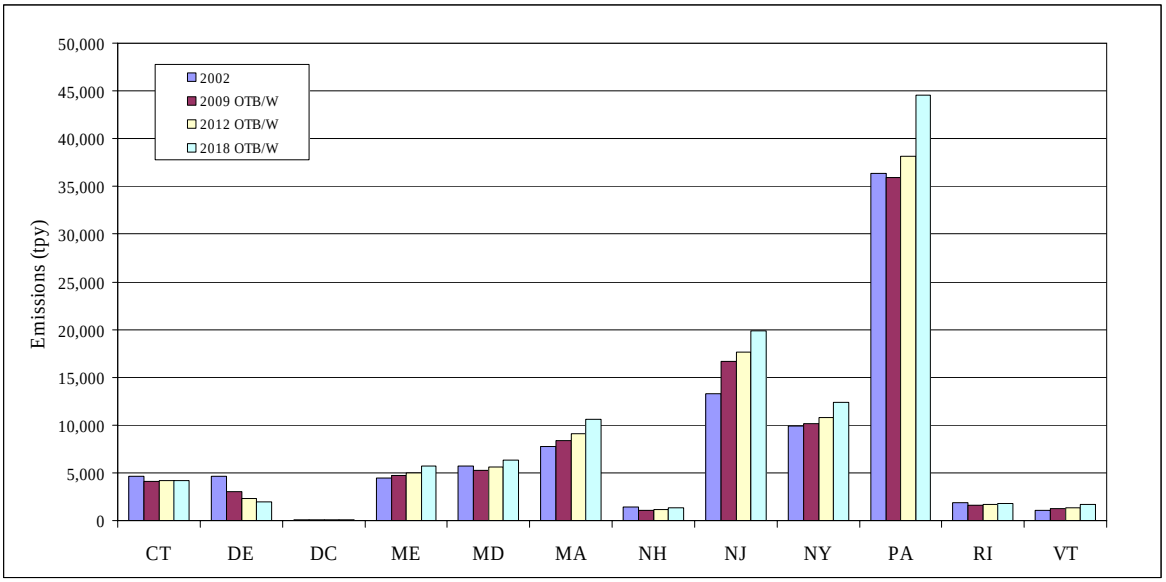


Table 2-8 NonEGU Point Sources
OTB/OTW Annual VOC Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	4,604	4,114	4,152	4,230
DE	4,645	2,987	2,311	1,993
DC	69	72	75	85
ME	4,477	4,740	4,985	5,709
MD	5,676	5,297	5,578	6,301
MA	7,794	8,381	9,061	10,564
NH	1,459	1,060	1,132	1,294
NJ	13,318	16,702	17,621	19,915
NY	9,933	10,157	10,750	12,354
PA	36,326	35,875	38,162	44,537
RI	1,898	1,640	1,695	1,812
VT	1,079	1,254	1,365	1,730
Total	**91,278**	**92,279**	**96,887**	**110,524**



3.0 AREA SOURCES

The area source sector is comprised of stationary sources that are small and numerous, and that have not been inventoried individually as specific point, mobile, or biogenic sources. Individual sources are typically grouped with other like sources into area source categories and the emissions are calculated on a county-by-county basis. Area source categories include residential/commercial/industrial fuel combustion; small industrial processes; solvent utilization (such as architectural coatings and consumer products); petroleum product storage and transport (such as gasoline service stations); waste disposal; and agricultural activities.

The procedures for projecting emissions for area sources are described in this section. We started with the MANE-VU 2002 area source emission inventory. We first applied growth factors to account for changes in population and economic activity. Next, we applied control factors to account for future emission reductions from on-the-books (OTB) control regulations and on-the-way (OTW) control regulations. The OTB control scenario accounts for post-2002 emission reductions from promulgated federal, State, local, and site-specific control programs as of June 15, 2005. The OTW control scenario accounts for proposed (but not final) control programs that are reasonably anticipated to result in post-2002 emission reductions. We then conducted a series of quality assurance steps to ensure the development of complete, accurate, and consistent emission inventories. We provided the inventories in three formats – the National Emission Inventory Input Format (NIF), SMOKE Inventory Data Analyzer (IDA) format, and SMOKE growth/control packets. We also prepared emission summary tables by state and pollutant. Each of these activities is discussed in this section.

3.1 INITIAL 2002 AREA SOURCE EMISSION INVENTORY

The starting point for the area source projections was Version 3 of the MANE-VU 2002 area source emission inventory (MANE-VU_2002_Area_040606.MDB). There were two updates to this version of the 2002 inventory in response to requests from the District of Columbia and Massachusetts. These changes, described in the following paragraphs, were used in preparing the 2009/2012/2018 projections.

After release of Version 3 of the MANE-VU 2002 inventory, the District of Columbia discovered a gross error in the 2002 residential, non-residential and roadway construction. They requested that the following values be used for the 2002 base year and as the basis for the 2009/2012/2018 projections:

SCC	Pollutant Code	2002 Annual Emissions (tpy)
2311010000	PM10-PRI	8.2933
	PM25-PRI	1.6587
2311020000	PM10-PRI	486.1951
	PM25-PRI	97.239
2311030000	PM10-PRI	289.8579
	PM25-PRI	57.9716

After release of Version 3 of the MANE-VU 2002 inventory, Massachusetts revised their inventory of area source heating oil emissions due to two changes: (1) SO2 emission factors were adjusted for the sulfur content from 1.0 to 0.03; and (2) use of the latest DOE-EIA 2002 fuel use data instead of the previous version used 2001. These two changes significantly altered the 2002 SO2 emissions for area source heating oil combustion. Massachusetts provided revised 2002 PE and EM tables, which MACTEC used in preparing the 2009/2012/2018 projection inventories.

3.2 AREA SOURCE GROWTH FACTORS

The area source growth factors were developed using three sets of data:

- The U.S. EPA's Economic Growth and Analysis System Version 5.0 (EGAS 5.0) using the default SCC configuration. EGAS 5.0 generates growth factors from REMI's 53 Sector Policy Insight Model Version 5.5, the U.S. Department of Energy (DOE) Annual Energy Outlook 2004 (AEO2004) fuel use projections, and national vehicle mile travel projections from EPA's MOBILE 4.1 Fuel Combustion Model;

- The DOE's Annual Energy Outlook 2005 (AEO2005) fuel consumption forecasts were used to replace the AEO2004 forecasts that are used as the default values in EGAS 5.0; and

- State-supplied population, employment, and other emission projection data.

The priority for applying these growth factors was to first use the state-supplied projection data (if available). If no state-supplied data are available, then we used the AEO2005 projection factors for fuel consumption sources. If data from these two sources were not available, we used the EGAS 5.0 default SCC configuration. Appendix C lists the area source growth factors used for this study.

3.2.1 EGAS 5.0 Growth Factors

EGAS is an EPA-developed economic and activity forecast tool that provides credible growth factors for developing emission inventory projections. Growth factors are generated using national- and regional-economic forecasts. For nonEGUs, the primary economic activity data sets in EGAS 5.0 are:

- State-specific growth rates from the Regional Economic Model, Inc. (REMI) Policy Insight® model, version 5.5. The REMI socioeconomic data (output by industry sector, population, farm sector value added, and gasoline and oil expenditures) are available by 4-digit SIC code at the State level.
- Energy consumption data from the DOE's Energy Information Administration's (EIA) *Annual Energy Outlook 2004, with Projections through 2025* for use in generating growth factors for non-EGU fuel combustion sources. These data include regional or national fuel-use forecast data that were mapped to specific SCCs for the non-EGU fuel use sectors (e.g., commercial coal, industrial natural gas). Growth factors are reported at the Census division level. These Census divisions represent a group of States (e.g., the South Atlantic division includes Delaware, the District of Columbia, and Maryland; the Middle Atlantic division includes New Jersey, New York, and Pennsylvania; the New England division includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont). Although one might expect different growth rates in each of these States due to unique demographic and socioeconomic trends, all States within each division received the same growth rate.

EGAS uses these economic activity datasets and a set of cross-reference files to generate growth factors by Standard Industrial Classification (SIC) code, Source Classification Code (SCC), or Maximum Achievable Control Technology (MACT) codes. Growth factors for 2009, 2012, and 2018 were calculated using 2002 as the base year at the State and SCC level. County-specific growth factors are not available in EGAS 5.0.

There were several SCCs in the MANE-VU 2002 inventory that are not included in the EGAS 5.0 files. As a result, EGAS did not generate growth factors for those SCCs. MACTEC assigned growth factors for the missing SCCs by assigning a surrogate SCC that best represented the missing SCC.

3.2.2 AEO2005 Growth Factors

The default version of EGAS 5.0 uses the DOE's AEO2004 forecasts. We replaced these data with the more recent AEO2005 forecasts to improve the emissions growth factors

produced. Using ACCESS, we created a copy of the "DOE EGAS 5" dataset. The dataset includes three tables. One table contains the projection data values from 2001-2025. The other two tables are the MACT and SCC crosswalk tables. The crosswalk tables are linked to the projection table via a "model code". Using the copy of AEO2004 data, we updated the corresponding projection tables with data from the AEO2005 located at: http://www.eia.doe.gov/oiaf/aeo/supplement/supref.html . Using the data and descriptions from the new tables, we matched the projection data to the appropriate model codes and then built a table identical to the DOE EGAS 5 dataset with the new 2005 AEO data. The resulting ACCESS dataset contains a projection data table with the exact same structure as the original except with the new data. The SCC and MACT crosswalks did not require any updates since the model code assignments were not changed in the new data table.

3.2.3 State Specific Growth Factors

In addition to the growth data described above, we received growth projections from several MANE-VU states to be used instead of the default EGAS or AEO2005 growth factors. The following paragraphs describe the area source growth factors used for each state.

3.2.3.1 Connecticut

Connecticut provided state-level population projections for 2009, 2012, and 2018. We created growth factors for those SCCs that are population based using the state-supplied data. Connecticut also provided state-level employment projections for industry categories analogous to 2-digit SIC codes. Projections were provided for 2009, 2012, and 2018. We matched these industry groupings to SCC codes in order to create SCC specific growth factors for area sources. Emissions from area source fuel combustion were projected using the AEO2005 forecasts.

3.2.3.2 Delaware

Delaware provided county-level population projections (*Delaware Population Consortium Annual Population Projections*, Oct 18, 2001 Version 2001.0) for 2000, 2005, 2010, 2015, and 2020. We interpolated these data to get growth factors for projection from 2002 to 2009, 2012, and 2018 for those SCCs that are population based. Delaware also provided state-level employment data by NAICS codes for 2002 and 2012. We interpolated values for 2009 and 2018. We matched these industry groupings to SCC codes in order to create SCC specific growth factors for selected area sources. Emissions from area source fuel combustion were projected using the AEO2005 forecasts.

3.2.3.3 District of Columbia

DC provided local growth factors for projecting emissions from 2002 to 2009, 2012, and 2018 for all area source SCCs except fuel combustion sources. Emissions from area source fuel combustion were projected using the AEO2005 forecasts.

3.2.3.4 Maine

Maine indicated that it preferred to use the EGAS 5.0 growth factors and the DOE's 2005 Annual Energy Outlook data for combustion sources.

3.2.3.5 Maryland

Maryland provided growth factors by SCC for all counties in the State. These growth factors were derived from a variety source sources, including the MWCOG Cooperative Forecast 7.0, the BMC Round 6A Cooperative Forecast (prepared by the MD Dept. of Planning, May 2004), and EGAS 5.0.

3.2.3.6 Massachusetts

Massachusetts provided county-level population data for the years 2000, 2010, and 2020. We interpolated these data to get growth factors for projection from 2002 to 2009, 2012, and 2018 for those SCCs that are population based. Massachusetts also provided growth factors for several SCCs based on employment data for the years 2000 and 2010. We interpolated these data to get growth factors for projection from 2002 to 2009, 2012, and 2018. Massachusetts agreed on the use of the AEO2005 forecasts for projecting emissions from area source fuel combustion.

3.2.3.7 New Hampshire

New Hampshire agreed to use the EGAS 5.0 growth factors, with the enhancement of using the DOE's 2005 Annual Energy Outlook data for combustion sources.

3.2.3.8 New Jersey

New Jersey provided growth factors for most SCCs for all counties in the State. When state-specific growth factors were not available, we used the AEO2005 forecasts for projecting emissions from area source fuel combustion and EGAS default factors for any remaining categories.

3.2.3.9 New York

New York provided county-level population data for 2002 and projections/growth factors for 2009, 2012, and 2018. We used these growth factors for those SCCs that are population based. We used

the AEO2005 forecasts for projecting emissions from area source fuel combustion and EGAS default factors for any remaining categories.

3.2.3.10 Pennsylvania

Pennsylvania provided county-level population data for 2000 and projections for 2010 and 2020. We interpolated these data to get growth factors for projecting from 2002 to 2009, 2012, and 2018 for those SCCs that are population based. Pennsylvania also provided general employment data for 21 counties or area for 2000 and projections for 2010 and 2020. We interpolated these data to get growth factors for projecting from 2002 to 2009, 2012, and 2018 for nine area source categories identified by Pennsylvania. For all other area source categories, we used the AEO2005 forecasts for projecting emissions from area source fuel combustion and EGAS default factors for any remaining categories.

3.2.3.11 Rhode Island

Rhode Island provided county-level population projections for 2000, 2005, 2010, 2015, and 2020. We interpolated these data to get growth factors for projection from 2002 to 2009, 2012, and 2018 for those SCCs that are population based. Rhode Island provided state-level employment data from the Department of Labor and Training by 3-digit NAICS codes for 2002 and 2012. We used these data to calculate the growth factor from 2002 to 2012 and interpolated these data to derive growth factors for 2009 and 2018. We matched these industry NAICS groupings to SCC codes in order to create SCC specific growth factors for area sources. Rhode Island agreed on the use of the AEO2005 forecasts for projecting emissions from area source fuel combustion.

3.2.3.12 Vermont

Vermont agreed to use the EGAS 5.0 growth factors, with the enhancement of using the DOE's 2005 Annual Energy Outlook data for combustion sources.

3.3 AREA SOURCE CONTROL FACTORS

We developed control factors to estimate emission reductions that will result from on-the-books regulations that will result in post-2002 emission reductions and proposed regulations or actions that will result in post-2002 reductions. Control factors were developed for the following national or regional control measures:

- OTC VOC Model Rules
- Federal On-board Vapor Recovery
- New Jersey Post-2002 Area Source Controls
- Residential Woodstove NSPS

3.3.1 OTC 2001 VOC Model Rules

Most of the MANE-VU States have adopted (or will soon adopt) the Ozone Transport Commission (OTC) model rules for five area source VOC categories: consumer products, architectural and industrial maintenance (AIM) coatings, portable fuel containers, mobile equipment repair and refinishing (MERR), and solvent cleaning. Information on the percent reduction anticipated by each model rule was obtained from Table II-6 of *Control Measure Development Support Analysis of Ozone Transport Commission Model Rules* (E.H. Pechan & Associates, Inc., March 31, 2001). This set of model rules will be referred to as the "OTC 2001 model rules" in this document. Information as to whether a particular state has adopted (or will soon adopt) a particular measure was obtained form the Status Report on OTC States' Efforts to Promulgate Regulations Based on OTC Model Rules (As of June 1, 2005, as posted on the OTC web site). For all categories, except portable fuel containers (see discussion below), we assumed that the rules would be fully implemented by <u>all states by 2009</u>. Some states had already adopted some the OTC 2001 Model Rules in 2002 or already had similar rules in place in 2002. The 2002 emission inventory for those states already reflected the emission reductions expected from the OTC 2001 Model Rule level of control. For those states and categories, no incremental reductions were applied for to the future year projections, as indicated Table 3-1.

For consumer products, the 2001 OTC model rule was estimated to provide a 14.2 percent VOC emissions reductions from the Federal Part 59 rule. Most, but not all, states in the OTR have adopted the OTC 2001 model rule for consumer products. For this inventory, it was assumed that all OTC states would adopt the 2001 OTC model rule prior to 2009. Thus, the 14.2 percent control factor was applied uniformly to all states in the 2009, 2012, and 2018 projection inventories.

For AIM coatings, the 2001 OTC model rule was estimated to provide a 31 percent VOC emissions reduction from the Federal Part 59 rule. Most, but not all, states in the OTR have adopted the OTC 2001 model rule for AIM coatings. For this inventory, it was assumed that all OTC states would adopt the 2001 OTC model rule prior to 2009. Thus, this control factor was applied uniformly to all states, with one exception. Maine adopted the OTC model rule with an alternative VOC content limit for varnishes and interior wood clear and semitransparent wood stains. As a result, Maine estimated that reductions from AIM coatings should be modeled using a 29.5 percent control factor instead of the 31 percent estimated for the OTC 2001 model rule.

For portable fuel containers, the 2001 OTC model rule was estimated to provide a 75 percent reduction in VOC emissions at the end of an assumed 10-year phase-in period as

Table 3-1 Adoption Matrix for 2001 OTC Model Rules

State	Consumer Products	AIM Coatings	Portable Fuel Containers	Mobile Equipment Repair and Refinishing	Solvent Cleaning
CT	Yes	Yes	Yes	Yes	Yes
DE	Yes	Yes	Yes	Yes	No
DC	Yes	Yes	Yes	Yes	No
ME	Yes	Yes	Yes	Yes	Yes
MD	Yes	Yes	Yes	No	No
MA	Yes	Yes	Yes	No	* (7%)
NH	Yes	Yes	Yes	Yes	Yes
NJ	Yes	Yes	Yes	Yes	** (17%)
NY	Yes	Yes	Yes	Yes	Yes
PA	Yes	Yes	Yes	No	No
RI	Yes	Yes	Yes	Yes	Yes
VT	Yes	Yes	Yes	Yes	No

Yes – apply incremental reductions in future years
No – OTC Model Rule reductions already accounted for in 2002 inventory; no incremental reductions applied to future years.
* MA is amending its existing Solvent/Degreasing rule and anticipates a 7% reduction from 2002 levels.
** NJ amended its existing Solvent/Degreasing rule and anticipates a 17% reduction from 2002 levels

older non-compliant containers are replaced with new compliant containers. The rule penetration (RP) depends on the assumed PFC estimated useful life and how quickly old non-compliant containers are replaced with new compliant containers. For the 2001 OTC model rule, the turnover from old to new containers is expected to be 10 percent per year. The MANEVU states have adopted the OTC 2001 model rule at different times, so the rule penetration will vary by State depending upon when the rule became effective in a given state. For example, compliant containers were required in Pennsylvania beginning on January 1, 2003. By the 2009 ozone season, there will be a 6.5 year turnover period for compliant PFCs in Pennsylvania. By contrast, compliant containers in New Jersey were not required until January 1, 2005. Thus, by the 2009 ozone season, there will be a 4.5 year turnover period for compliant PFCs. Table 3.2 shows the effective date for compliant containers by state, along with the rule penetration factors and overall control efficiency. There are different rule penetration factors for the three inventory years because of the increased penetration of compliant containers into the marketplace. By 2018, 100 percent compliance is assumed.

Table 3-2 Rule Penetration and Control Efficiency Values for 2001 OTC Model Rule for PFCs

Rule Compliance Date	States with this Compliance Date	Control Efficiency (%)	Rule Penetration (%)	Overall Control Efficiency (%)
Control Factor for 2009 Inventory				
2003	MD, NY, PA	75	65	48.8
2004	CT, DE, DC, ME	75	55	41.3
2005	NJ	75	45	33.8
2006	NH	75	35	26.3
2007*	MA, RI, VT	75	25	18.8
Control Factor for 2012 Inventory				
2003	MD, NY, PA	75	95	71.3
2004	CT, DE, DC, ME	75	85	63.8
2005	NJ	75	75	56.3
2006	NH	75	65	48.8
2007*	MA, RI, VT	75	55	41.3
Control Factor for 2018 Inventory				
2003	MD, NY, PA	75	100	75.0
2004	CT, DE, DC, ME	75	100	75.0
2005	NJ	75	100	75.0
2006	NH	75	100	75.0
2007*	MA, RI, VT	75	100	75.0

* The 2001 OTC model rule is not yet effective. It was assumed to become effective January 1, 2007 for the MANEVU modeling inventory. Massachusetts' rule actually will not become effective until 2009 and is based only on the OTC 2006 model rule; Massachusetts will not adopt the OTC 2001 model rule.

The emission reductions from the 2001 OTC PFC model rule were calculated only for the emissions accounted for in the area source inventory. Additional benefits (not estimated for this report) would be expected from equipment refueling vapor displacement and spillage that is accounted for in the nonroad inventory.

For mobile equipment repair and refinishing, the 2001 OTC model rule was estimated to provide a 38 percent VOC emissions reductions from the Federal Part 59 rule (35% for paint application and 3% for cleaning operations). Most, but not all, states in the OTR have adopted the OTC 2001 model rule for MERR or already had similar rules in effect in

2002. For this inventory, it was assumed that all OTC states would adopt the 2001 OTC model rule prior to 2009 or have similar rules in effect. For those states (MD, MA, PA) that had similar rules in effect in 2002 or earlier, no incremental reductions were applied since it was assumed that the effects of the state rule were already accounted for in the 2002 inventory. New Jersey indicated that a 19 percent control factor should be used for VOC emissions from MERR in New Jersey. For all other states, the OTC 2001 Model Rule control factor of 38 percent was applied.

For solvent cleaning, the 2001 OTC model rule was estimated to provide a 66 percent VOC emissions reductions. Most, but not all, states in the OTR have adopted the OTC 2001 model rule for solvent cleaning or already had similar rules in effect in 2002. For this inventory, it was assumed that all OTC states would adopt the 2001 OTC model rule prior to 2009 or have similar rules in effect. For those states (DE, DC, MD, PA, VT) that had similar rules in effect in 2002 or earlier, no incremental reductions were applied since it was assumed that the effects of the state rule were already accounted for in the 2002 inventory. Massachusetts indicated that some portion of the reductions resulting from the OTC 2001 model rule were already accounted for in their 2002 emissions, but that the state anticipated an additional 7 percent reduction from anticipated amendments. New Jersey indicated that a 17 percent control factor should be used for VOC emissions from solvent cleaning in New Jersey. For all other states (CT, ME, NH, NY, RI), the OTC 2001 Model Rule control factor of 66 percent was applied.

Table D-1 in Appendix D shows the anticipated percent reductions by state, SCC, and year from implementation of the OTC 2001 VOC Model Rules.

3.3.2 On-Board Vapor Recovery

The U.S. EPA issued regulations requiring onboard vapor recovery (ORVR) standards for the control of vehicle refueling emissions in 1994. ORVR works by routing refueling vapors to a carbon canister on the vehicle and are expected to achieve from 95-98 percent reduction in VOC emissions for those vehicles equipped with ORVR. ORVR is required to be installed on some new light-duty gasoline vehicles in 1998, and all new light-and medium-duty automobiles and trucks will be required to have ORVR installed by 2006.

For the Lake Michigan Air Directors Consortium, E.H. Pechan made estimates of emission reductions as they grow over time due to increased rule penetration. The following discussion describes how the on-board vapor recovery control factors were developed (email from Maureen Mullen, E.H. Pechan):

> "Onroad refueling control factors were calculated based on the percentage difference between the projection year (2007, 2008, 2009, 2012, and 2018) MOBILE6 refueling emission factors and the 2002 MOBILE6 refueling emission factors.
>
> MOBILE6 emission factors were calculated at January and July temperature and fuel conditions. July emission factors were used as the surrogate for the five-month ozone season (May through September) and the January emission factors were used as the surrogates for the remaining seven months. Temperatures modeled were the January and July average daily monthly maximum and minimum temperatures for each State, based on 30-year average temperature data, as used in EPA's second Section 812 Prospective analysis. Within a State, MOBILE6 input files were created for each unique combination of: January and July RVP, RFG, oxygenated fuel, and Stage II control programs. Fuel data was based on 2002 data, also as used in the Section 812 analysis. Information on Stage II control programs and control efficiencies were provided by EPA, as included in the draft 2002 NEI. Using these same temperature inputs, fuel inputs, and Stage II control inputs (where applicable), Pechan calculated MOBILE6 emission factors for calendar years 2002, 2007, 2008, 2009, 2012, and 2018.
>
> The resulting MOBILE6 emission factors were first weighted according to the default MOBILE6 VMT mix to determine the weighted average refueling emission factor for all gasoline vehicle types. The resulting January and July emission factors were weighted together according to the number of days in the seven-month season (212 days) and the five-month ozone season (153). After this was done for all of the modeled years and State or sub-State areas, the overall control efficiency for refueling, due to fleet turnover, was calculated based on the percentage difference between the 2002 and corresponding projection year emission factors. These control efficiencies were then assigned to individual counties, based on the mapping of fuel and Stage II control parameters to those modeled in the MOBILE6 files."

These projections were made on a county-by-county basis. Table D-2 shows the anticipated percent reductions by county, SCC, and year.

3.3.3 Post-2002 Area Source Controls in New Jersey

New Jersey made gasoline transfer provision amendments at N.J.A.C. 7:27-16.3. The Stage I portion of the amendments are expected to result in emissions reductions of 23.2 percent from the 2002 baseline. This is based on a control efficiency of 29 percent and a rule effectiveness of 80 percent. The State II portion of the amendments are already incorporated into the inventory through the MOBILE6 inputs.

New Jersey also made amendments to ICI boiler provisions at N.J.A.C. The amendments require any ICI boiler has a maximum gross heat input rate of at least 5 mmBTU/hour, whether or not it is located at a major NO_x facility, to conduct annual tune-ups. In the support documentation for this rule amendment, New Jersey estimated that the tune-ups would result in a 25 percent reduction in NOx emissions.

3.3.4 Residential Wood Combustion

Control factors were evaluated to account for the replacement of retired woodstoves that emit at pre-new source performance standard (NSPS) levels. We used EPA's latest methodology provided by Marc Houyoux of EPA/OAQPS. This methodology uses a combination growth and control factor and is based on activity not pollutant. The growth and control are accounted for in a single factor the SCCs split out the controlled and uncontrolled equipment. The control is indirectly incorporated based on which stove is used. The combined growth and control rates are as follows:

- Fireplaces increase 1%/yr
- Old woodstoves (non-EPA certified) decrease 2%/yr
- New woodstoves (EPA certified) increase 2%/yr

The data to support these rates were collected as part of the woodstove change-out program development in OAQPS. Table D-3 shows the anticipated percent changes by SCC and year.

3.4 AREA SOURCE QA/QC REVIEW

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, to ensure that a full and complete inventory was developed for MANE-VU, and to make sure that projection calculations were working correctly. Quality assurance was an important component to the inventory development process and MACTEC performed the following QA steps on the area source components of the 2009/2012/2018 projection inventories:

1. State agencies reviewed the draft growth and control factors in the summer of 2005. Changes based on these comments were implemented in the files.
2. SCC level emission summaries were prepared and evaluated to ensure that emissions were consistent and that there were no missing sources. Tier comparisons (by pollutant) were developed between the revised 2002 base year inventory and the 2009/2012/2018 projection inventories.
3. Emission inventory files in NIF format were provided for state agency review and comment. Changes based on these comments were implemented.
4. All final files were run through EPA's Format and Content checking software.

3.5 AREA SOURCE NIF, SMOKE AND SUMMARY FILES

The Version 3 file names and descriptions delivered to MARAMA are shown in Table 3-3.

3.6 AREA SOURCE EMISSION SUMMARIES

Emission summaries by state, year, and pollutant are presented in Tables 3-4 through 3-10 for CO, NH3, NOx, PM10-PRI, PM25-PRI, SO2, and VOC, respectively.

Table 3-3 Area Source NIF, IDA, and Summary File Names

File Name	Date	Description
MANEVU_OTB2009_Area_NIFV3_2.mdb	Nov. 9, 2006	Version 3.2 of 2009 OTB area source NIF inventory
MANEVU_OTB2012_Area_NIFV3_2.mdb	Nov. 9, 2006	Version 3.2 of 2012 OTB area source NIF inventory
MANEVU_OTB2018_Area_NIFV3_2.mdb	Nov. 9, 2006	Version 3.2 of 2018 OTB area source NIF inventory
MANEVU_OTB2009_Area_IDAV3_2.txt	Nov. 20, 2006	Version 3.2 of 2009 OTB area source inventory in SMOKE IDA format
MANEVU_OTB2012_Area_IDAV3_2.txt	Nov. 20, 2006	Version 3.2 of 2012 OTB area source inventory in SMOKE IDA format
MANEVU_OTB2018_Area_IDA3V_2.txt	Nov. 20, 2006	Version 3.2 of 2018 OTB area source inventory in SMOKE IDA format
MANEVU OTB BOTW Area V3_2 State Summary.xls	Nov. 8, 2006	Spreadsheet with state totals by pollutant for all area sources
MANEVU OTB BOTW Area V3_2 State SCC Summary.xls	Nov. 8, 2006	Spreadsheet with SCC totals by state and pollutant for all area sources.

Table 3-4 Area Sources
OTB/OTW Annual CO Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	70,198	65,865	63,874	59,797
DE	14,052	15,395	15,233	14,864
DC	2,300	2,417	2,460	2,512
ME	109,223	102,743	99,877	94,181
MD	141,178	143,653	144,233	144,649
MA	137,496	132,797	130,255	125,205
NH	79,647	76,504	75,319	73,038
NJ	97,657	90,432	88,048	83,119
NY	356,254	336,576	327,118	307,659
PA	266,935	266,887	264,012	257,396
RI	8,007	8,007	8,026	8,024
VT	43,849	42,683	42,172	41,283
Total	**1,326,796**	**1,283,959**	**1,260,627**	**1,211,727**

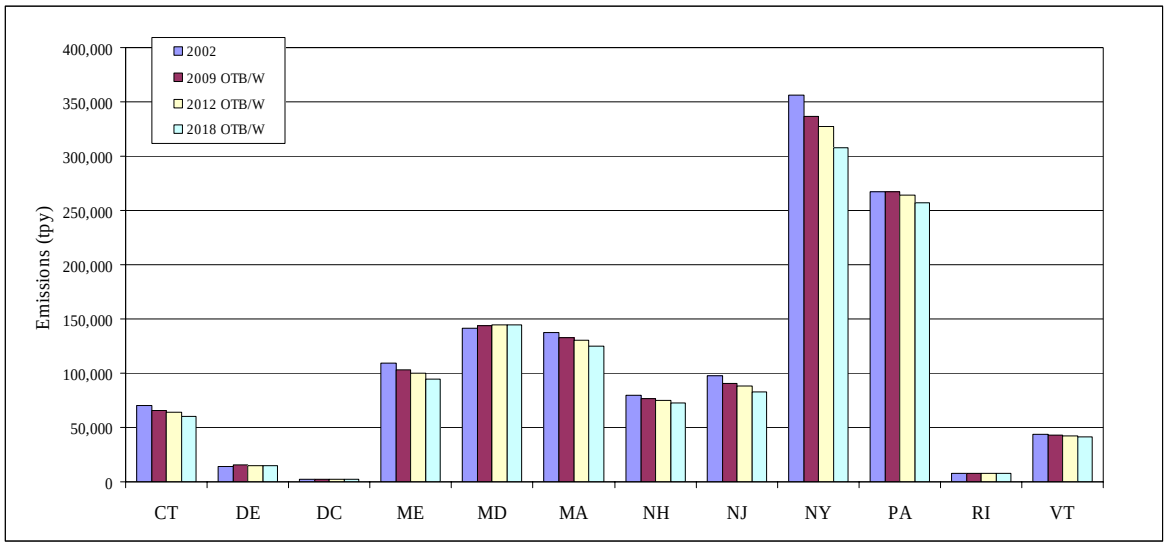


Table 3-5 Area Sources
OTB/OTW Annual NH3 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	5,318	5,208	5,156	5,061
DE	13,279	13,316	13,328	13,342
DC	14	16	16	17
ME	8,747	10,453	11,116	12,312
MD	25,834	31,879	34,222	38,155
MA	18,809	19,131	19,275	19,552
NH	2,158	2,466	2,584	2,789
NJ	17,572	19,457	20,154	21,435
NY	67,422	81,626	87,116	96,078
PA	79,911	98,281	105,418	117,400
RI	883	945	972	1,025
VT	9,848	12,156	13,062	14,580
Total	**249,795**	**294,934**	**312,419**	**341,746**

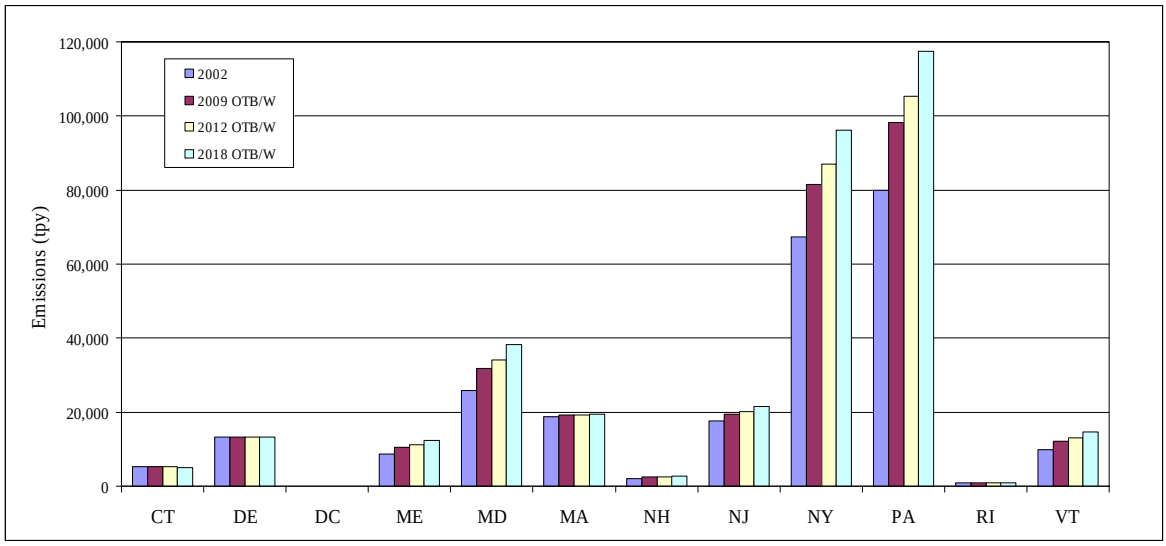


Table 3-6 Area Sources
OTB/OTW Annual NOx Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	12,689	13,173	13,342	13,388
DE	2,608	2,821	2,913	3,014
DC	1,644	1,961	2,081	2,259
ME	7,360	7,477	7,486	7,424
MD	15,678	16,858	17,315	18,073
MA	34,281	35,732	36,331	37,187
NH	10,960	11,879	12,055	12,430
NJ	26,692	24,032	23,981	23,660
NY	98,803	106,375	107,673	108,444
PA	47,591	50,162	50,793	50,829
RI	3,886	4,149	4,260	4,397
VT	3,208	3,419	3,429	3,430
Total	**265,400**	**278,038**	**281,659**	**284,535**

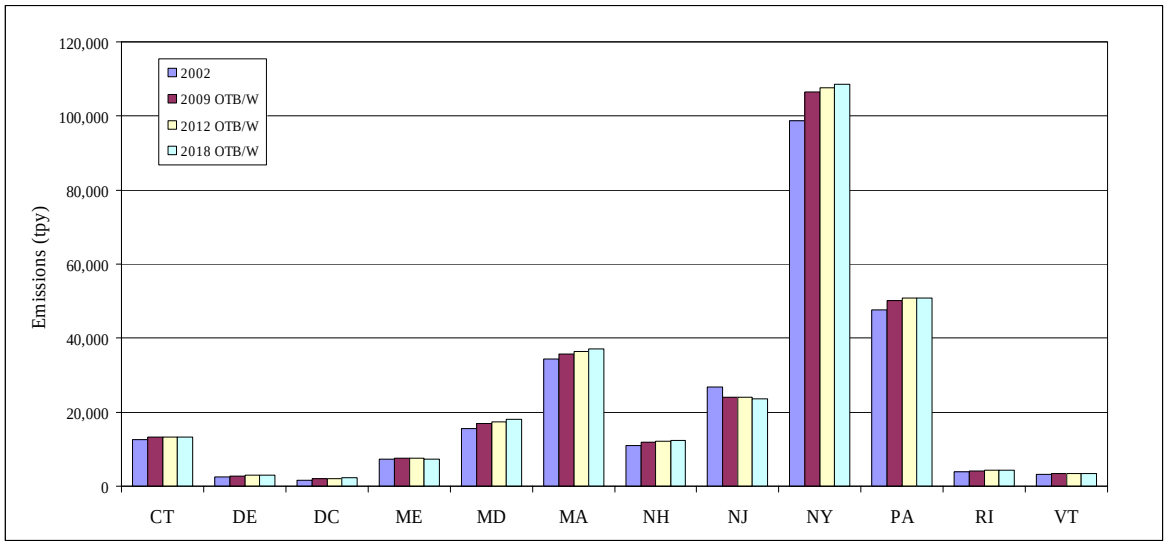


Table 3-7 Area Sources
OTB/OTW Annual PM10-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	48,281	48,970	49,004	49,479
DE	13,039	13,928	14,236	14,844
DC	3,269	3,511	3,605	3,825
ME	168,953	175,979	179,689	189,619
MD	95,060	105,944	110,141	117,396
MA	192,860	198,668	200,692	204,922
NH	43,328	46,060	47,187	49,801
NJ	61,601	61,684	61,284	60,880
NY	369,595	382,124	385,925	392,027
PA	391,897	421,235	432,844	454,970
RI	8,295	8,962	9,244	9,797
VT	56,131	60,521	62,465	66,916
Total	**1,452,309**	**1,527,586**	**1,556,316**	**1,614,476**

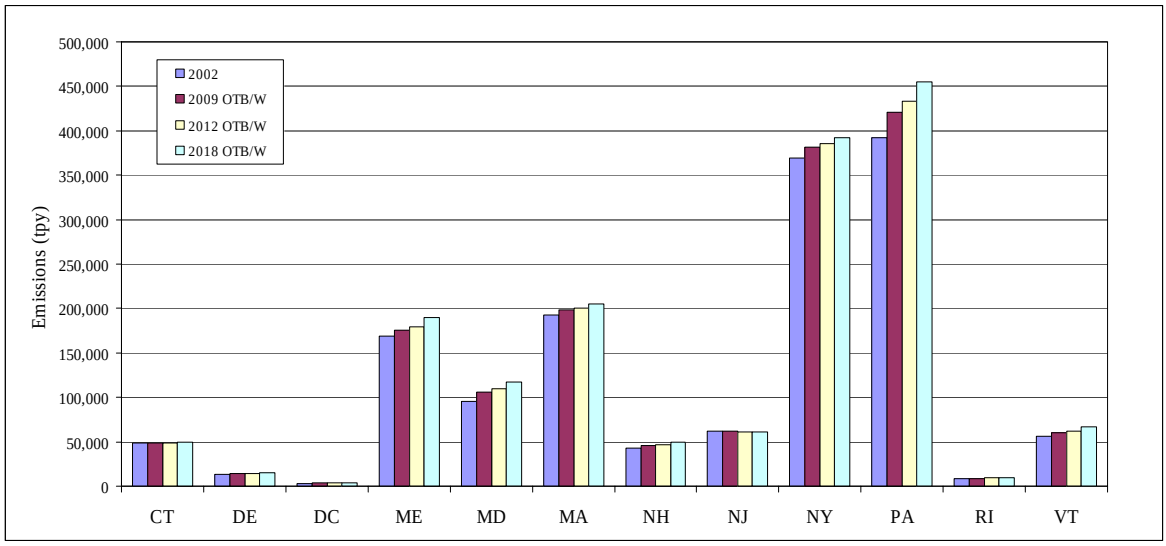


Table 3-8 Area Sources
OTB/OTW Annual PM25-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	14,247	13,766	13,517	13,033
DE	3,204	3,387	3,403	3,426
DC	805	860	879	917
ME	32,774	33,026	33,189	33,820
MD	27,318	28,923	29,508	30,449
MA	42,083	43,121	43,186	43,438
NH	17,532	17,965	18,050	18,316
NJ	19,350	18,590	18,271	17,653
NY	87,154	87,576	87,260	86,422
PA	74,925	79,169	80,728	83,570
RI	2,064	2,184	2,232	2,316
VT	11,065	11,482	11,652	12,059
Total	**332,521**	**340,049**	**341,875**	**345,419**

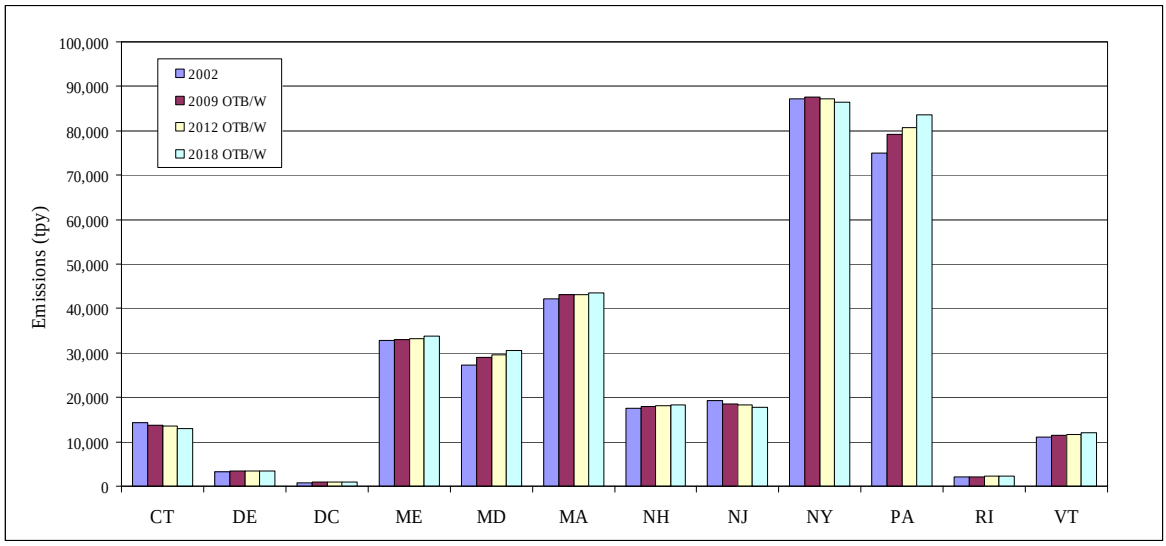


Table 3-9 Area Sources
OTB/OTW Annual SO2 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	12,418	12,581	12,604	12,184
DE	1,588	1,599	1,602	1,545
DC	1,337	1,487	1,541	1,632
ME	13,149	13,776	13,846	13,901
MD	12,393	13,685	14,074	14,741
MA	25,488	25,961	26,029	25,570
NH	7,072	7,463	7,470	7,421
NJ	10,744	10,672	10,697	10,510
NY	130,409	139,589	140,154	141,408
PA	63,679	67,535	67,446	66,363
RI	4,557	5,024	5,189	5,398
VT	4,087	4,646	4,687	4,764
Total	**286,921**	**304,018**	**305,339**	**305,437**

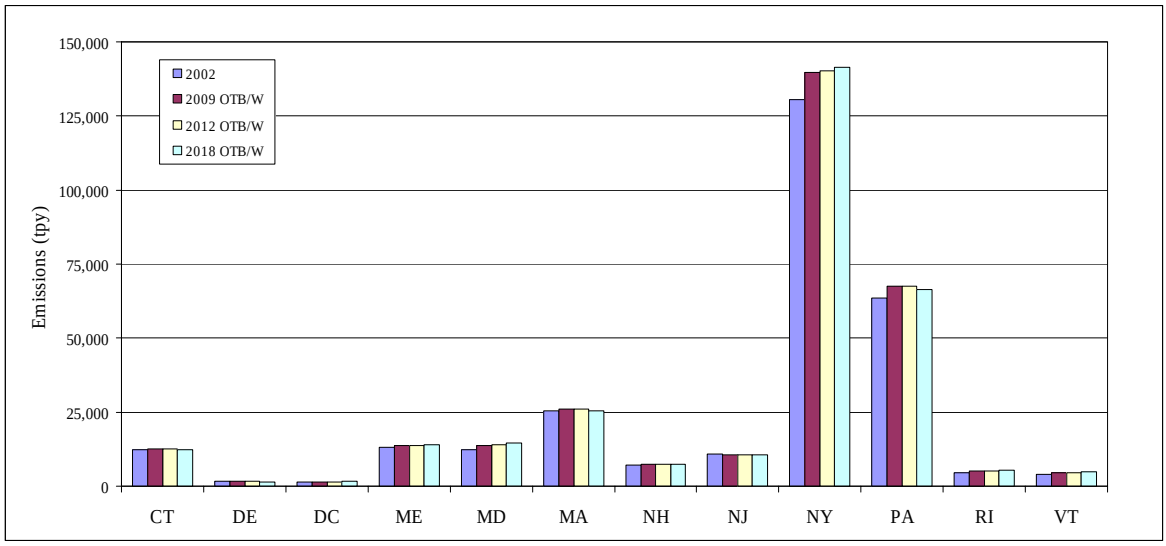
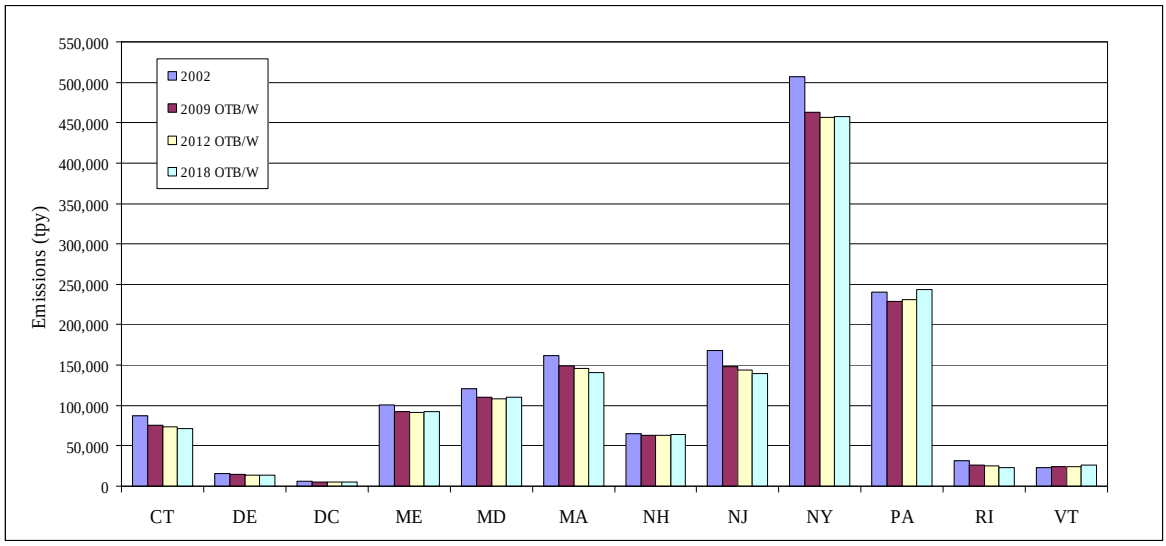


Table 3-10 Area Sources
OTB/OTW Annual VOC Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	87,302	75,693	73,560	71,274
DE	15,519	14,245	13,943	13,744
DC	6,432	5,420	5,352	5,255
ME	100,621	91,910	91,667	92,410
MD	120,254	110,385	108,067	110,046
MA	162,145	148,625	145,674	140,558
NH	65,370	63,069	63,356	64,368
NJ	167,882	147,617	143,752	139,626
NY	507,292	462,811	456,856	457,421
PA	240,785	228,444	230,393	243,421
RI	31,402	26,695	25,548	23,561
VT	23,265	24,068	24,635	26,198
Total	**1,528,269**	**1,398,982**	**1,382,803**	**1,387,882**



4.0 NONROAD SOURCES

The nonroad source sector is comprised of nonroad engines included in EPA's NONROAD model, as well as other nonroad engines not accounted for in the NONROAD model, including aircraft, commercial marine vessels, and locomotive engines. The sections that follow describe the projection process used to develop 2009/2012/2018 nonroad projection estimates for sources found in the NONROAD model and those sources estimated outside of the model (locomotives, airplanes and commercial marine vessels).

4.1 NONROAD MODEL SOURCES

NONROAD model source categories include equipment such as recreational boats and watercraft; recreational vehicles; farm, industrial, mining, and construction machinery; and lawn and garden equipment. Also included are aircraft ground support equipment and rail maintenance equipment. These equipment types are powered by engines using diesel, gasoline, compressed natural gas (CNG), and liquefied petroleum gas (LPG).

EPA released a revised version of NONROAD during December 2005 called NONROAD 2005. EPA's National Mobile Inventory Model (NMIM) is a consolidated modeling system that incorporates the NONROAD and MOBILE models, along with a county database of inputs. EPA also released an updated version of NMIM called NMIM2005, which incorporates the NONROAD2005 model.

MACTEC utilized the NMIM2005 model to develop projections for nonroad engines included in the NONROAD2005 model. Projected emission estimates were calculated using NMIM default data. Prior to starting the NMIM2005 runs, MACTEC confirmed with U.S. EPA's Office of Transportation and Air Quality (OTAQ) that the database used for fuel sulfur content, gas Reid Vapor Pressure (RVP) values and reformulated fuel programs was current and up to date for the MANE-VU region. The information received from OTAQ indicated that these values were the most current.

NMIM2005 runs were then developed for each projection year. These included 2009, 2012 and 2018. Emission calculations were made at the monthly level and consolidated to provide annual values. This enabled monthly temperatures and changes in reformulated gas to be captured by the program.

The NMIM/NONROAD2005 results in NIF 3.0, and ran EPA's QA checker program to verify that the NIF 3.0 files were properly constructed.

4.2 AIRCRAFT, COMMERCIAL MARINE, AND LOCOMOTIVES

Since aircraft, commercial marine vessels, and locomotives are not included in the NONROAD model, emission projections for these sources were developed separately. The starting point for the emission projections was Version 3 of the MANE-VU 2002 Nonroad emission inventory (*Documentation of the MANE-VU 2002 Nonroad Sector Emission Inventory, Version 3, Draft Technical Memorandum*, March 2006).

MACTEC's approach to developing emission projections for these sources was to use combined growth and control factors developed from emission projections for U.S. EPA's Clean Air Interstate Rule (CAIR) development effort. MACTEC obtained emission projections developed for the CAIR rule. We then calculated the combined growth and control factors by determining the ratio of emissions between 2002 and each of the MANE-VU projection years (2009, 2012, and 2018). The CAIR emissions were available for 2001, 2010, 2015 and 2020. Thus, we developed intermediate year estimates using linear interpolation between the actual CAIR years and the MANE-VU years.

Using this approach we developed State/county/SCC/pollutant growth/control factors for use in projecting the MANE-VU base year data to the year of interest. These values were then used to multiply times the base year value to obtain the projected values. Since the development of the CAIR factors included both growth and controls, no separate control factors were developed for these sources except where exceptions to this method were used for States that requested alternative growth/control methods (see below).

Once the CAIR factors were developed, MACTEC compared the SCCs contained in the CAIR inventory with those used in MANE-VU. In some cases there were differences. In cases where a similar SCC in the CAIR inventory could be assigned to the SCC in the MANE-VU inventory the State/County/SCC/pollutant growth and control factor for the substitute was assigned to the MANE-VU SCC. If no corresponding county SCC substitution could be found, a State or MANE-VU regional average value for the substitute SCC was developed and assigned for use in projecting emissions. The substitution scheme was to use State values first, then MANE-VU regional values if the State value couldn't be used.

This projection method was used with three exceptions. These exceptions were: 1) Maryland sources, 2) DC locomotive growth and controls and 3) Logan (Boston) airport. Each of these sources used alternative growth and/or controls provided by the States or developed from current Federal rules for these sources (applies to controls only). Each of these is discussed below.

4.2.1 Maryland Non-NONROAD Source Emissions

Maryland indicated that they would prefer to use EGAS growth factors coupled with Federal controls to determine projected emissions for these source categories. Maryland provided EGAS growth factors for use with these categories. Control values were developed based on Federal rules that were on the books.

For CMV, controls were developed based on data contained in Table 1.1-2 of the document "Final Regulatory Support Document: Control of Emissions from New Marine Compression-Ignition Engines at or Above 30 Liters per Cylinder," EPA420-R-03-004, January 2003. Values in that table were interpolated to develop emission estimates with and without controls for the MANE-VU years (and base year) and then control factors were calculated for those values. Only Category 3 marine engines were identified in the Maryland inventory and thus only NOx controls for those engines were developed.

For locomotives, control factors for different types of locomotives were developed using Tables 6-2 through 6-5 of the document "Locomotive Emission Standards: Regulatory Support Document," United States Environmental Protection Agency, Office of Mobile Sources, April 1998. Since these tables only showed PM controls, we assumed the same level of control for both PM-10 and PM-2.5. Controls for VOC, NOx and PM were developed using these tables.

In addition to engine specification controls for both CMV and locomotives, we also developed control factors resulting from changes to diesel fuel sulfur contents. The diesel fuel sulfur regulations were utilized to develop controls for SO2 and PM due solely to changing fuel sulfur requirements. Data from Tables 3.1-6a and 3.4-8a of the document "Final Regulatory Analysis: Control of Emissions from Nonroad Diesel Engines," EPA420-R-04-007, May 2004 were used to develop control levels created due to changes in fuel sulfur content. In cases where there were controls due to both engine technology and fuel sulfur reduction, we added the control efficiencies together to create a combined control efficiency. All control values are considered to be "additive". In other words, the controls applied are above those found in the base year. Thus the controls were used on the base year emission values without back-calculation to determine uncontrolled levels since the controls are in addition to those controls.

The control values were then applied along with the growth factors to the base year emissions for Maryland to produce the required emission projections.

4.2.2 DC Locomotive Emissions

The District of Columbia emission contact provided MACTEC with alternative growth factors for locomotive emissions. The growth factors provided were:

2002-2009	6.9%
2002-2012	9.9%
2002-2018	13.7%

Since the CAIR factors were combined growth and controls, the control factors developed for locomotives for Maryland (based on Federal control programs) were used to apply controls to the DC locomotive emissions. As was the case for Maryland, the control factors were "additive" and were used on the base year emission without back-calculating uncontrolled emissions since the control levels were relative to controls in place for 2002.

4.2.3 Logan (Boston) Airport Emissions

Massachusetts supplied historic and future year projections of operations at Logan Airport. The data covered the period 2000-2010. Since only one year of the period required for MANE-VU projections was included in that interval (2009), MACTEC developed estimates for 2012 and 2018 from those data by linear interpolation. Two linear interpolations were developed. The first used the entire data set (2000-2010) to develop a linear projection for 2012 and 2018 and a second using just the 2002-2010 data. For the final growth factors, MACTEC used the average of the two. These growth factors were then applied to commercial aircraft operations for Suffolk County (FIPS = 25025). The growth factors developed were:

2002-2009	1.184
2002-2012	1.22
2002-2018	1.33

No controls that would come on board for aircraft for the projection years were identified from a review of Federal programs.

4.3 NONROAD QA/QC REVIEW

Throughout the inventory development process, quality assurance steps were performed to ensure that no double counting of emissions occurred, to ensure that a full and complete inventory was developed for MANE-VU, and to make sure that projection calculations were working correctly. MACTEC performed the following QA steps on nonroad source projection inventories: (1) All final files (NONROAD only) were run through EPA's Format and Content checking software; SCC level emission summaries were prepared and evaluated to ensure that emissions were consistent with the 2002 projections and that there were no missing source categories or geographical areas.

4.4 NONROAD NIF, SMOKE, AND SUMMARY FILES

The Version 3.1 files delivered to MARAMA are shown in Table 4-1.

4.5 NONROAD EMISSION SUMMARIES

Table 4-2a shows the CO emissions by state and year for the entire nonroad sector. Table 4-2b presents the CO emission results for NONROAD model equipment only. Table 4-2c presents the CO emission results for only the aircraft, commercial marine vessel, and locomotive categories. Tables 4-3 to 4-8 present the emission results for the other criteria pollutants of interest.

Table 4-1 Nonroad Source NIF, IDA, and Summary File Names

File Name	Date	Description
MANEVU_OTB2009_NR_NIFV3_1.mdb	Oct. 23, 2006	Version 3.1 of 2009 nonroad source NIF inventory
MANEVU_OTB2012_NR_NIFV3_1.mdb	Oct. 23, 2006	Version 3.1 of 2012 nonroad source NIF inventory
MANEVU_OTB2018_NR_NIFV3_1.mdb	Oct. 23, 2006	Version 3.1 of 2018 nonroad source NIF inventory
MANEVU_OTB2009_NR_IDAV3_1.txt	Oct. 26, 2006	Version 3.1 of 2009 nonroad source inventory in SMOKE IDA format
MANEVU_OTB2012_NR_IDAV3_1.txt	Oct. 26, 2006	Version 3.1 of 2012 nonroad source inventory in SMOKE IDA format
MANEVU_OTB2018_NR_IDA3V_1.txt	Oct. 26, 2006	Version 3.1 of 2018 nonroad source inventory in SMOKE IDA format
MANEVU OTB Nonroad V3_1 State Summary.xls	Oct. 23, 2006	Spreadsheet with state totals by pollutant for all nonroad sources, NONROAD model sources, and aircraft, locomotives, and commercial marine vessels
MANEVU OTB Nonroad V3_1 State SCC Summary.xls	Oct. 23, 2006	Spreadsheet with SCC totals by state and pollutant for all nonroad sources, NONROAD model sources

Table 4-2a All Nonroad Sources
OTB/OTW Annual CO Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	276,773	282,788	288,061	303,764
DE	68,782	74,856	76,491	80,646
DC	18,845	20,746	21,306	22,429
ME	153,424	163,782	165,273	166,679
MD	437,400	497,276	513,737	550,795
MA	461,514	504,400	516,019	546,373
NH	130,782	142,318	143,804	147,544
NJ	704,396	753,916	777,069	831,880
NY	1,233,968	1,349,439	1,388,406	1,474,727
PA	931,978	1,031,816	1,058,256	1,119,247
RI	73,013	80,228	82,113	87,195
VT	62,248	68,360	69,003	70,074
Total	**4,553,124**	**4,969,925**	**5,099,538**	**5,401,353**

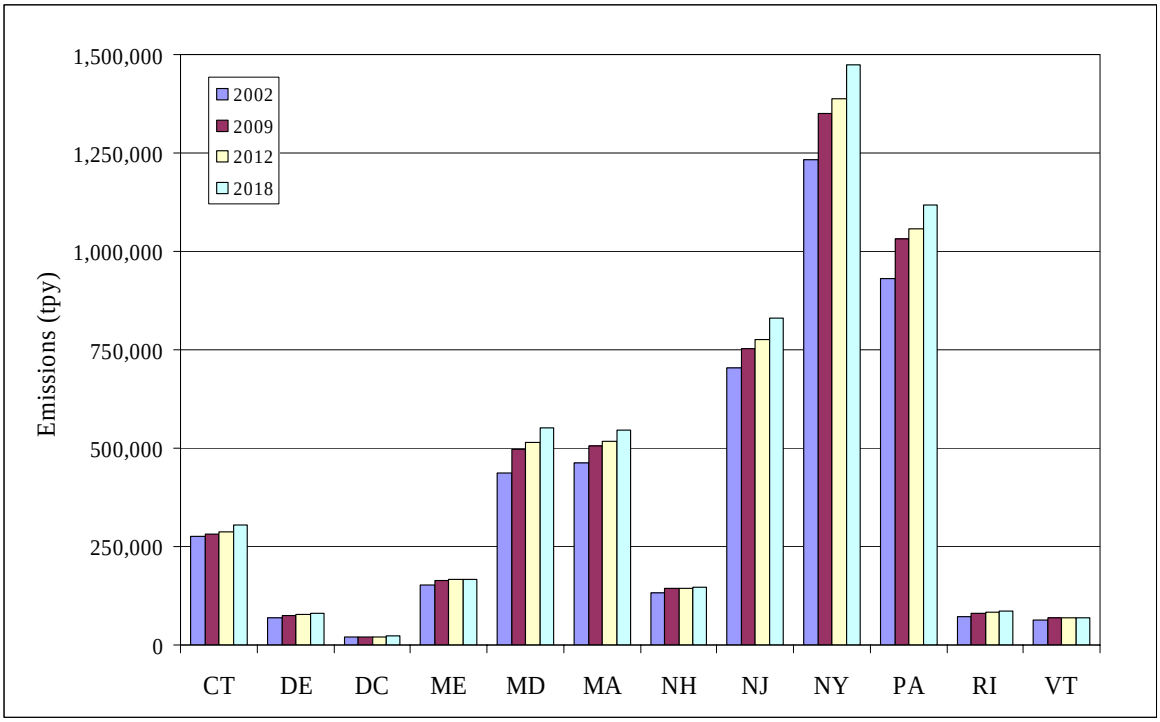


Table 4-2b NONROAD Model Sources
OTB/OTW Annual CO Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	274,388	280,253	285,415	300,931
DE	65,954	71,877	73,397	77,356
DC	18,775	20,671	21,229	22,350
ME	148,555	158,715	160,043	161,215
MD	424,777	482,312	497,806	532,970
MA	448,399	490,895	501,684	530,686
NH	128,572	139,288	140,655	144,191
NJ	692,548	741,792	764,424	818,519
NY	1,219,309	1,333,923	1,372,164	1,457,277
PA	903,168	1,003,480	1,029,045	1,088,614
RI	71,573	78,764	80,607	85,618
VT	61,732	67,802	68,421	69,456
Total	**4,457,748**	**4,869,771**	**4,994,890**	**5,289,186**

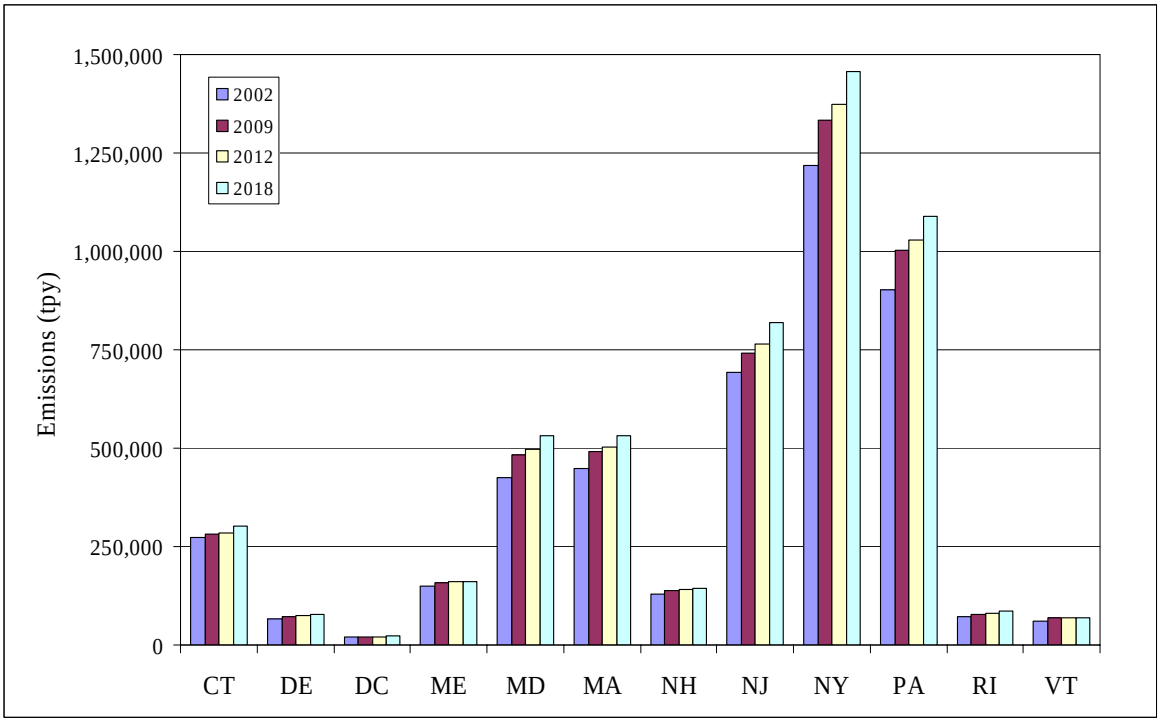


Table 4-2c Aircraft, Locomotive, and Commercial Marine Sources OTB/OTW Annual CO Emission Projections (tons per year)

State	2002	2009	2012	2018
CT	2,385	2,535	2,646	2,833
DE	2,828	2,979	3,094	3,290
DC	70	75	77	79
ME	4,868	5,067	5,230	5,464
MD	12,624	14,964	15,931	17,825
MA	13,116	13,505	14,335	15,687
NH	2,211	3,030	3,149	3,353
NJ	11,849	12,124	12,645	13,361
NY	14,660	15,516	16,242	17,450
PA	28,810	28,336	29,211	30,633
RI	1,440	1,464	1,506	1,577
VT	516	558	582	618
Total	**95,375**	**100,154**	**104,648**	**112,167**

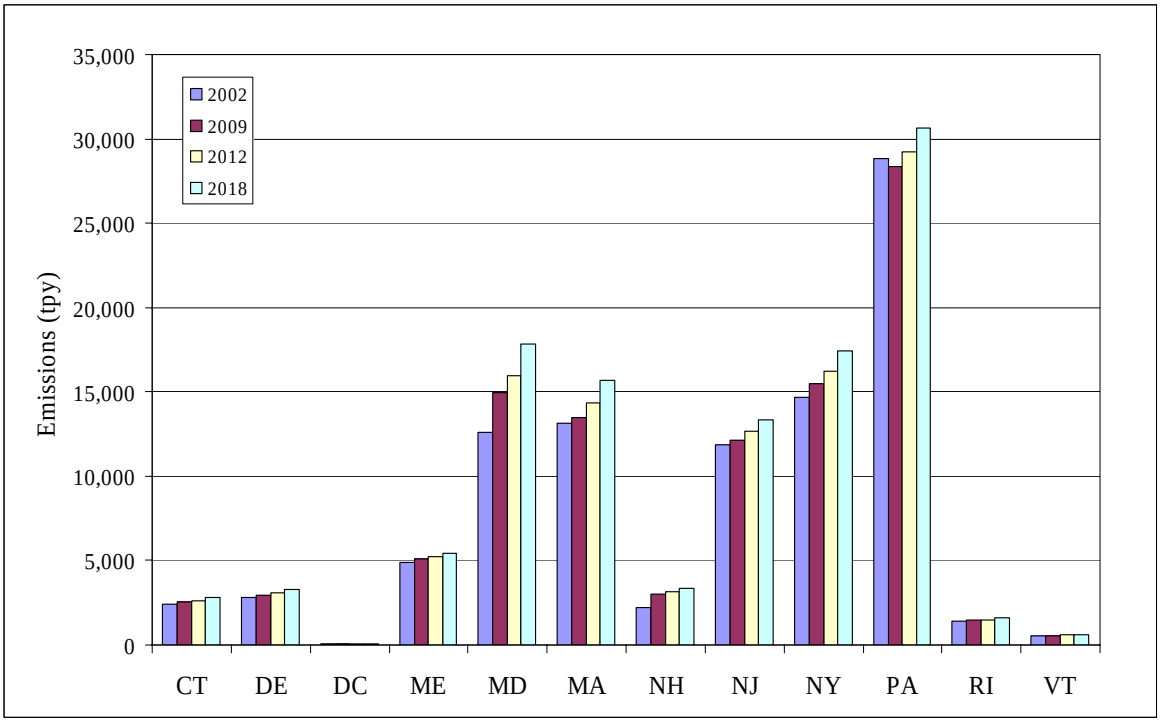


Table 4-3a All Nonroad Sources
OTB/OTW Annual NH3 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	17	18	19	21
DE	5	6	6	7
DC	2	3	3	3
ME	11	13	14	15
MD	28	31	33	36
MA	28	31	33	36
NH	9	10	11	12
NJ	43	45	47	52
NY	79	89	94	103
PA	55	62	66	73
RI	4	4	5	5
VT	5	5	6	6
Total	**287**	**317**	**337**	**369**

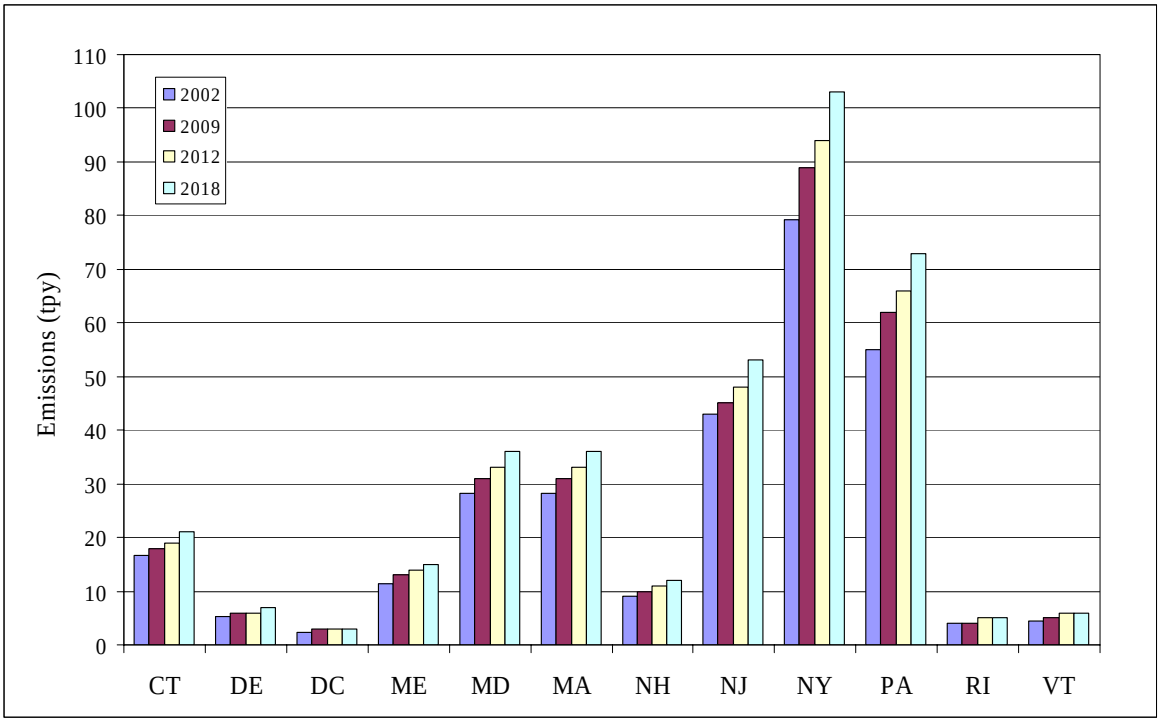


Table 4-3b NONROAD Model Sources
OTB/OTW Annual NH3 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	17	18	19	21
DE	5	6	6	6
DC	2	3	3	3
ME	11	13	14	15
MD	28	31	33	36
MA	28	31	33	36
NH	9	10	11	12
NJ	43	45	47	52
NY	79	89	94	103
PA	55	62	66	73
RI	4	4	5	5
VT	5	5	6	6
Total	**287**	**318**	**335**	**369**

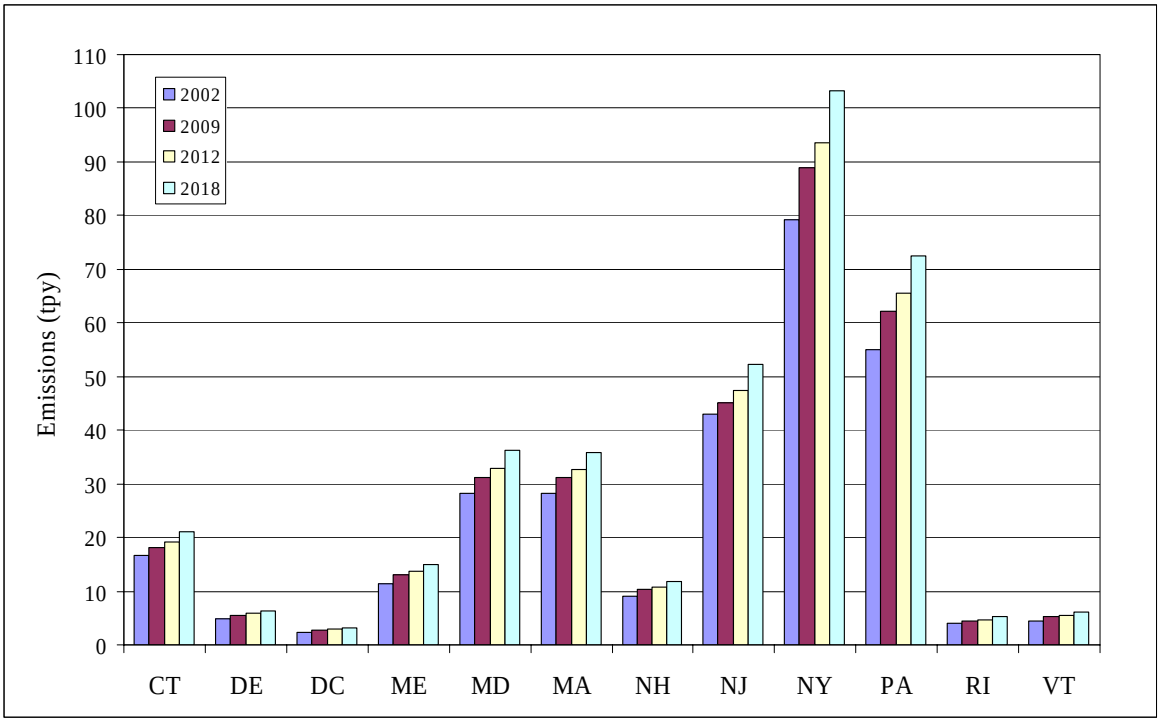


Table 4-3c Aircraft, Locomotive, and Commercial Marine Sources OTB/OTW Annual NH3 Emission Projections (tons per year)

State	2002	2009	2012	2018
CT	0	0	0	0
DE	0	0	0	0
DC	0	0	0	0
ME	0	0	0	0
MD	0	0	0	0
MA	0	0	0	0
NH	0	0	0	0
NJ	0	0	0	0
NY	0	0	0	0
PA	0	0	0	0
RI	0	0	0	0
VT	0	0	0	0
Total	**<1**	**<1**	**<1**	**<1**

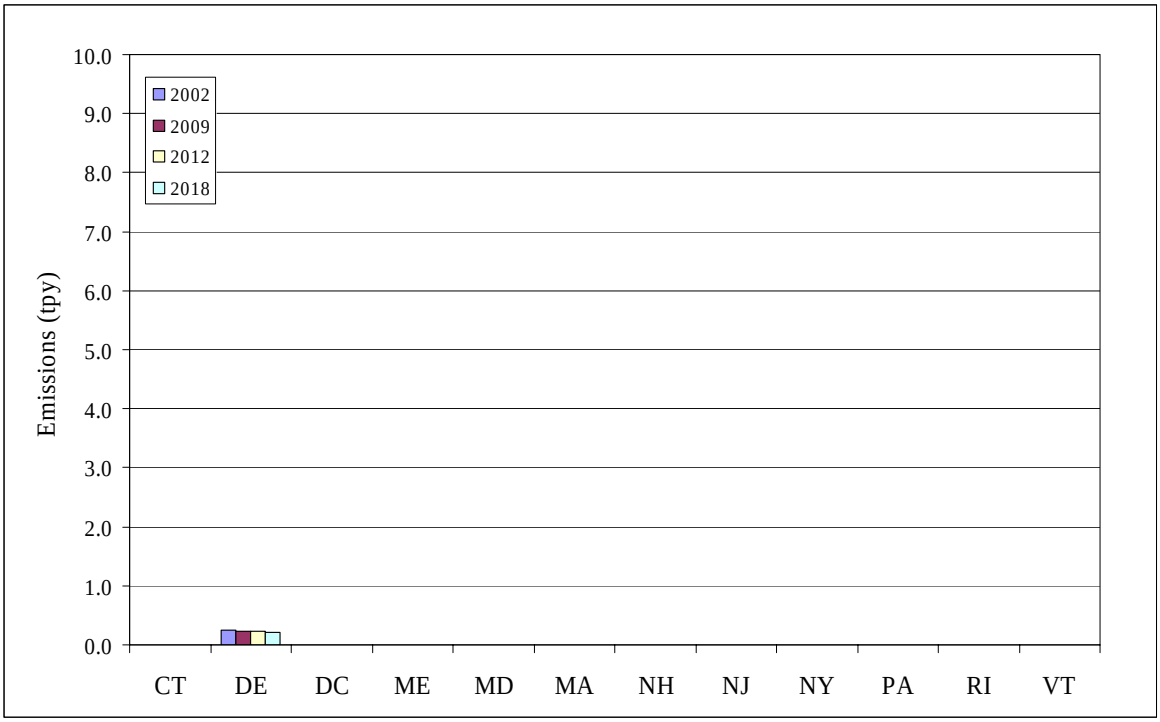


Table 4-4a All Nonroad Sources
OTB/OTW Annual NOx Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	25,460	21,512	19,316	16,233
DE	16,227	15,439	15,081	14,631
DC	3,571	2,981	2,620	1,815
ME	9,820	8,500	7,752	6,543
MD	37,472	31,762	29,058	24,257
MA	42,769	35,703	32,118	27,040
NH	9,912	8,485	7,624	6,344
NJ	63,479	52,703	48,234	41,166
NY	109,878	94,186	85,852	72,400
PA	103,824	76,105	67,818	55,771
RI	5,002	4,022	3,470	2,723
VT	4,217	3,452	2,992	2,262
Total	**431,631**	**354,850**	**321,935**	**271,185**

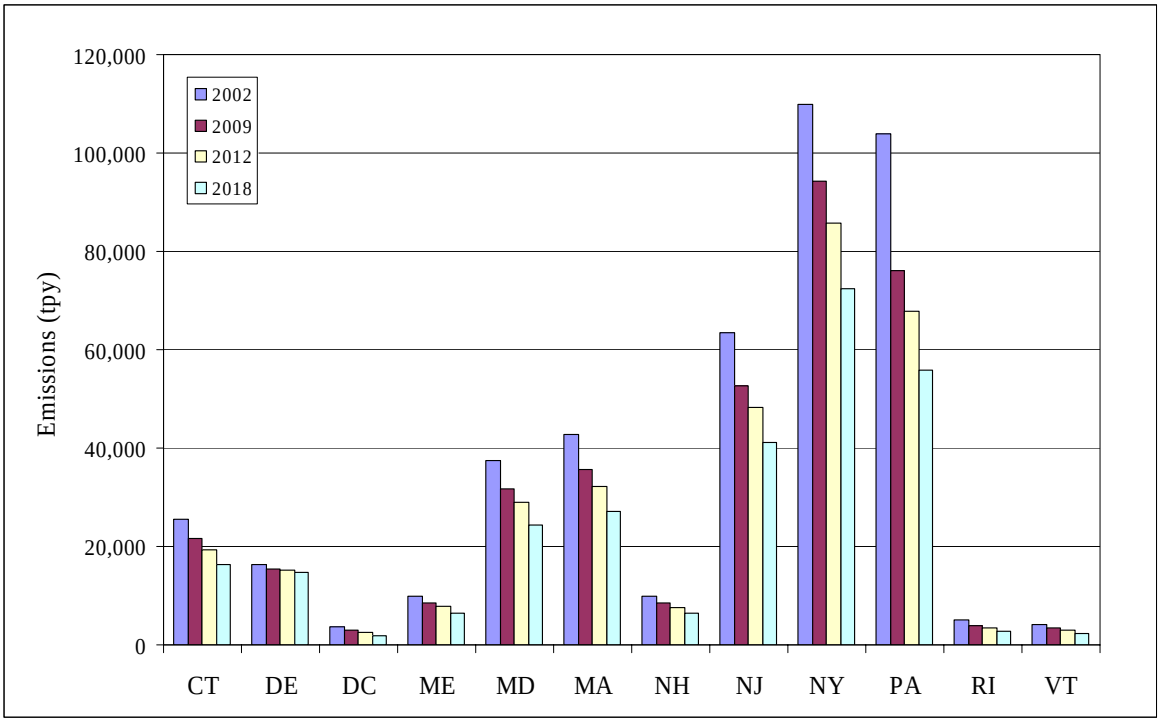


Table 4-4b NONROAD Model Sources
OTB/OTW Annual NOx Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	17,897	14,849	12,811	9,784
DE	5,798	4,755	4,108	2,966
DC	3,066	2,561	2,221	1,444
ME	8,229	6,957	6,211	4,970
MD	27,789	23,431	20,839	15,745
MA	30,047	24,606	21,274	16,096
NH	8,150	6,749	5,893	4,583
NJ	43,515	34,447	30,416	23,594
NY	78,648	66,645	58,900	45,400
PA	62,265	49,982	42,571	30,797
RI	4,564	3,624	3,066	2,294
VT	4,170	3,403	2,941	2,205
Total	**294,138**	**242,009**	**211,252**	**159,877**

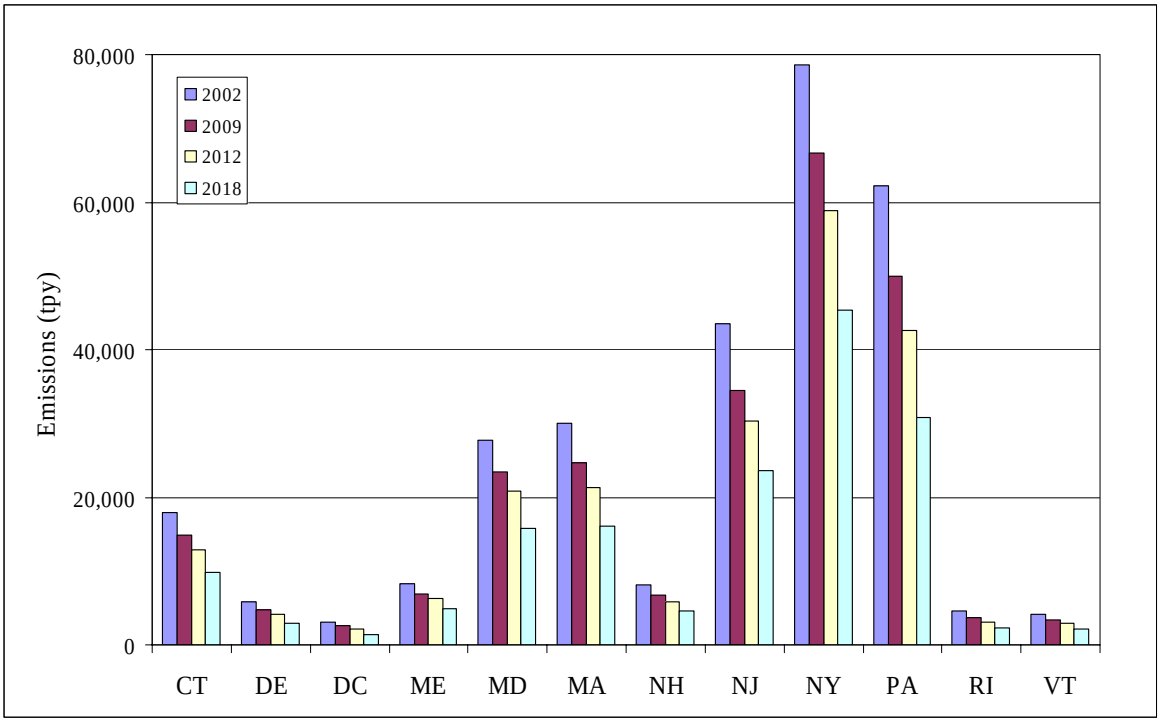


Table 4-4c Aircraft, Locomotive, and Commercial Marine Sources OTB/OTW Annual NOx Emission Projections (tons per year)

State	2002	2009	2012	2018
CT	7,563	6,663	6,505	6,449
DE	10,428	10,684	10,973	11,665
DC	505	420	399	371
ME	1,592	1,543	1,541	1,573
MD	9,683	8,331	8,219	8,512
MA	12,722	11,097	10,844	10,944
NH	1,763	1,736	1,731	1,761
NJ	19,964	18,256	17,818	17,572
NY	31,230	27,541	26,952	27,000
PA	41,559	26,123	25,247	24,974
RI	438	398	404	429
VT	47	49	51	57
Total	**137,493**	**112,841**	**110,683**	**111,308**

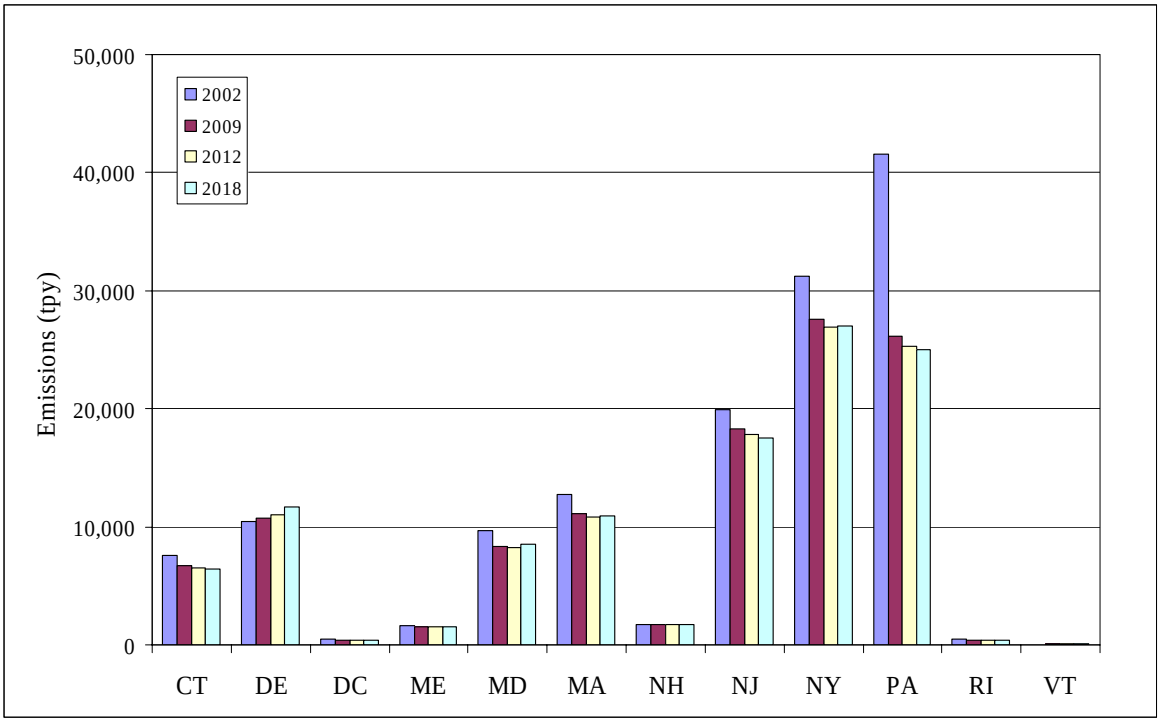


Table 4-5a All Nonroad Sources
OTB/OTW Annual PM10-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	1,952	1,642	1,532	1,236
DE	1,021	947	940	897
DC	310	235	209	135
ME	1,437	1,367	1,301	1,086
MD	4,936	4,353	4,191	3,814
MA	3,531	2,964	2,768	2,246
NH	1,058	944	881	698
NJ	5,495	4,539	4,233	3,489
NY	9,605	8,050	7,425	5,830
PA	9,738	8,501	8,112	6,949
RI	500	435	414	348
VT	530	476	439	331
Total	**40,114**	**34,453**	**32,445**	**27,059**

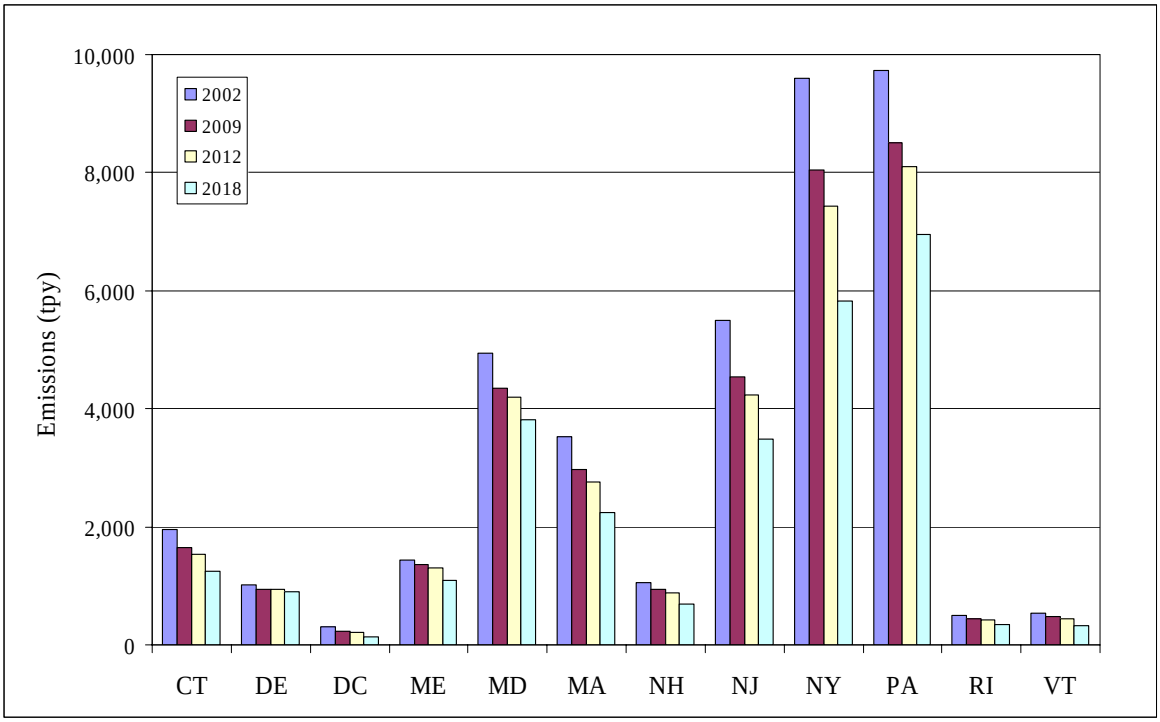


Table 4-5b NONROAD Model Sources
OTB/OTW Annual PM10-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	1,713	1,407	1,295	987
DE	570	456	414	301
DC	298	226	200	127
ME	1,204	1,119	1,039	797
MD	3,119	2,534	2,321	1,782
MA	2,887	2,370	2,176	1,640
NH	947	834	769	581
NJ	4,285	3,424	3,143	2,411
NY	8,339	6,871	6,248	4,624
PA	6,282	5,282	4,839	3,574
RI	403	337	314	244
VT	518	462	425	316
Total	**30,565**	**25,321**	**23,182**	**17,385**

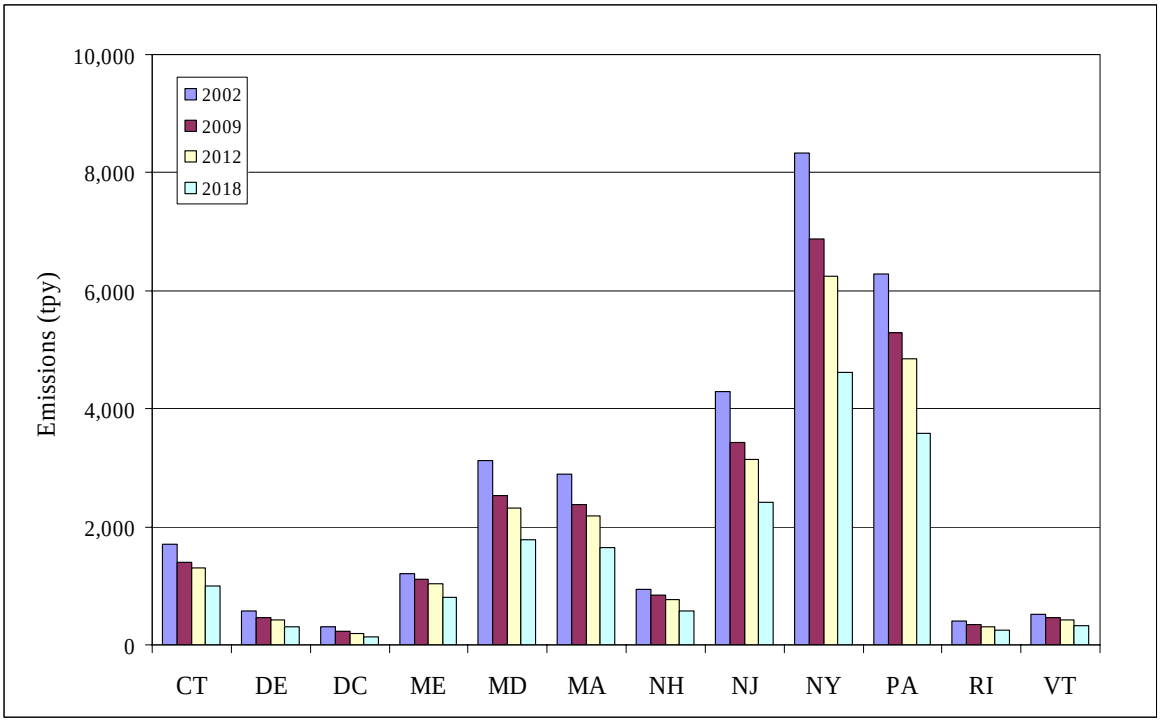


Table 4-5c Aircraft, Locomotive, and Commercial Marine Sources OTB/OTW Annual PM10-PRI Emission Projections (tons per year)

State	2002	2009	2012	2018
CT	239	235	237	249
DE	451	491	526	596
DC	12	9	9	8
ME	233	248	262	289
MD	1,817	1,819	1,870	2,032
MA	644	594	592	606
NH	111	110	112	117
NJ	1,210	1,115	1,090	1,078
NY	1,266	1,179	1,177	1,206
PA	3,456	3,219	3,273	3,375
RI	97	98	100	104
VT	12	14	14	15
Total	**9,549**	**9,132**	**9,263**	**9,674**

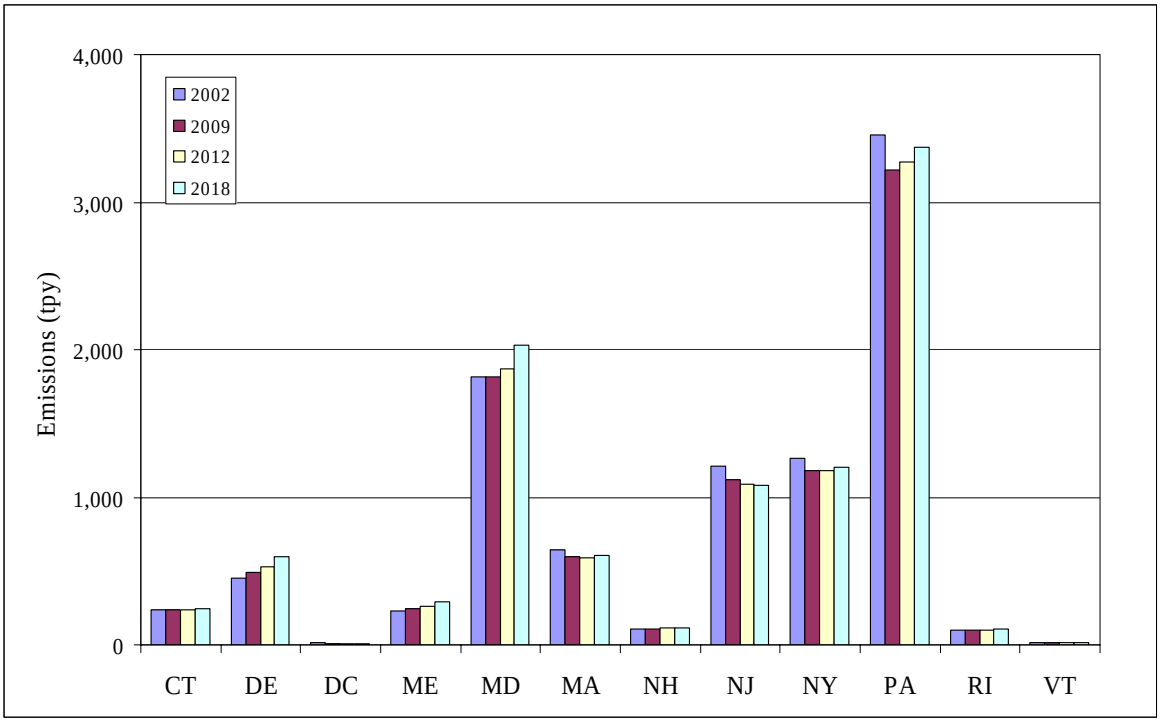


Table 4-6a All Nonroad Sources
OTB/OTW Annual PM25-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	1,794	1,508	1,408	1,135
DE	926	856	849	808
DC	299	216	192	124
ME	1,329	1,238	1,177	978
MD	4,357	3,806	3,653	3,301
MA	3,226	2,710	2,531	2,052
NH	965	861	802	634
NJ	4,997	4,113	3,829	3,143
NY	8,821	7,390	6,815	5,349
PA	8,440	7,274	6,900	5,808
RI	443	383	364	303
VT	486	436	402	303
Total	**36,084**	**30,791**	**28,922**	**23,938**

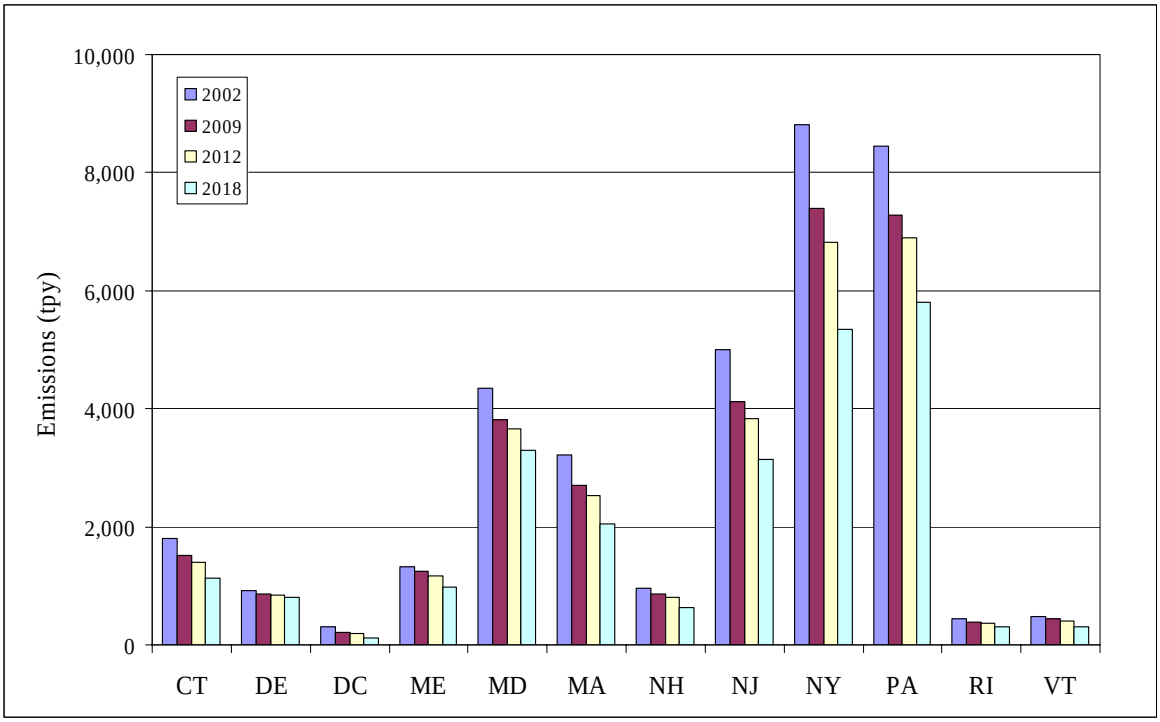


Table 4-6b NONROAD Model Sources
OTB/OTW Annual PM25-PRI Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	1,578	1,296	1,193	911
DE	525	420	381	277
DC	288	208	184	117
ME	1,135	1,030	956	734
MD	2,870	2,333	2,137	1,641
MA	2,659	2,184	2,005	1,512
NH	872	768	708	536
NJ	3,951	3,154	2,896	2,223
NY	7,677	6,327	5,755	4,262
PA	5,784	4,866	4,459	3,296
RI	371	311	290	226
VT	477	426	391	292
Total	**28,186**	**23,321**	**21,356**	**16,027**

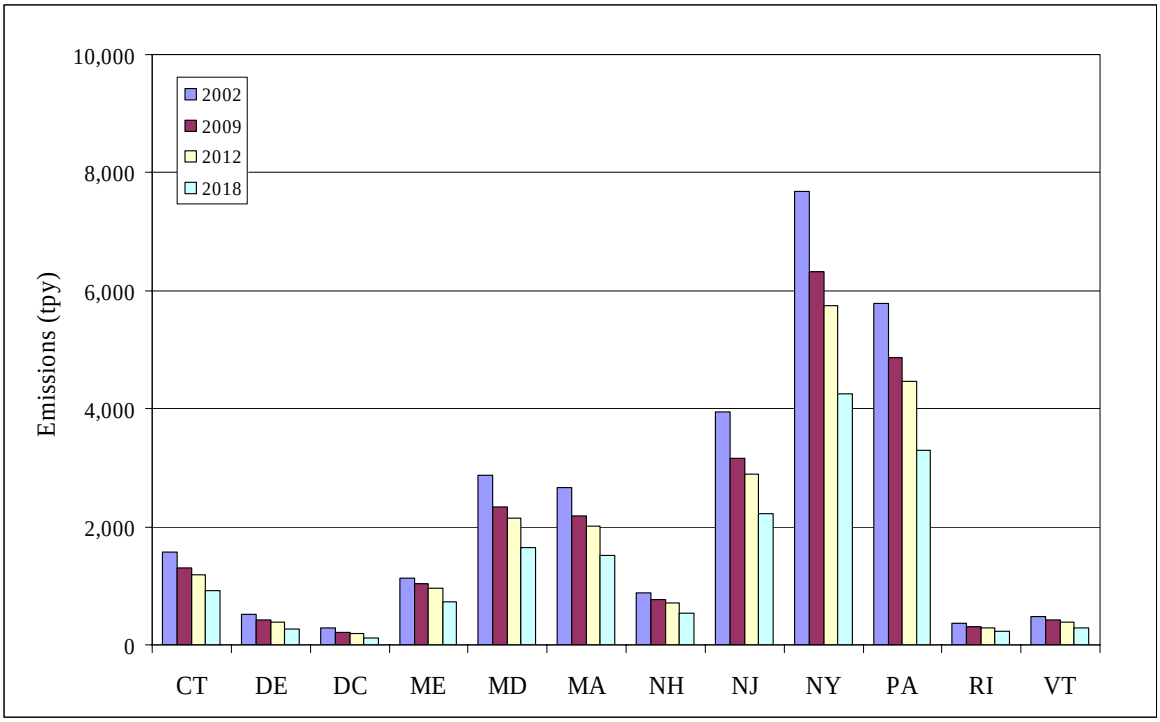


Table 4-6c Aircraft, Locomotive, and Commercial Marine Sources OTB/OTW Annual PM25-PRI Emission Projections (tons per year)

State	2002	2009	2012	2018
CT	216	212	215	224
DE	401	436	468	531
DC	11	8	8	7
ME	194	208	221	244
MD	1,487	1,473	1,516	1,660
MA	568	526	526	540
NH	94	93	94	98
NJ	1,047	959	933	920
NY	1,144	1,063	1,060	1,087
PA	2,656	2,408	2,441	2,512
RI	72	72	74	77
VT	9	10	11	11
Total	**7,898**	**7,470**	**7,566**	**7,911**

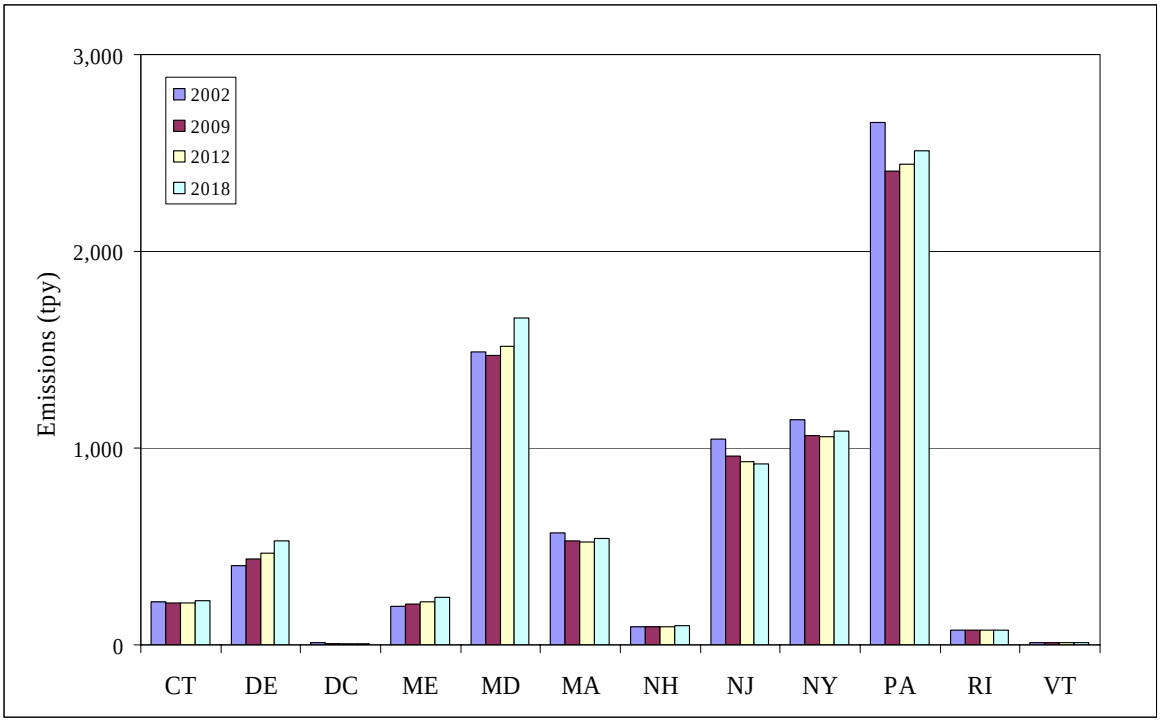


Table 4-7a All Nonroad Sources
OTB/OTW Annual SO2 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	2,087	887	711	815
DE	3,983	2,851	2,834	3,296
DC	375	66	9	5
ME	917	201	82	82
MD	7,942	1,638	706	577
MA	3,791	983	470	442
NH	891	310	218	246
NJ	15,686	3,508	1,253	832
NY	12,920	3,387	1,724	1,686
PA	7,915	1,659	667	607
RI	377	93	42	42
VT	372	68	15	13
Total	**57,257**	**15,651**	**8,731**	**8,643**

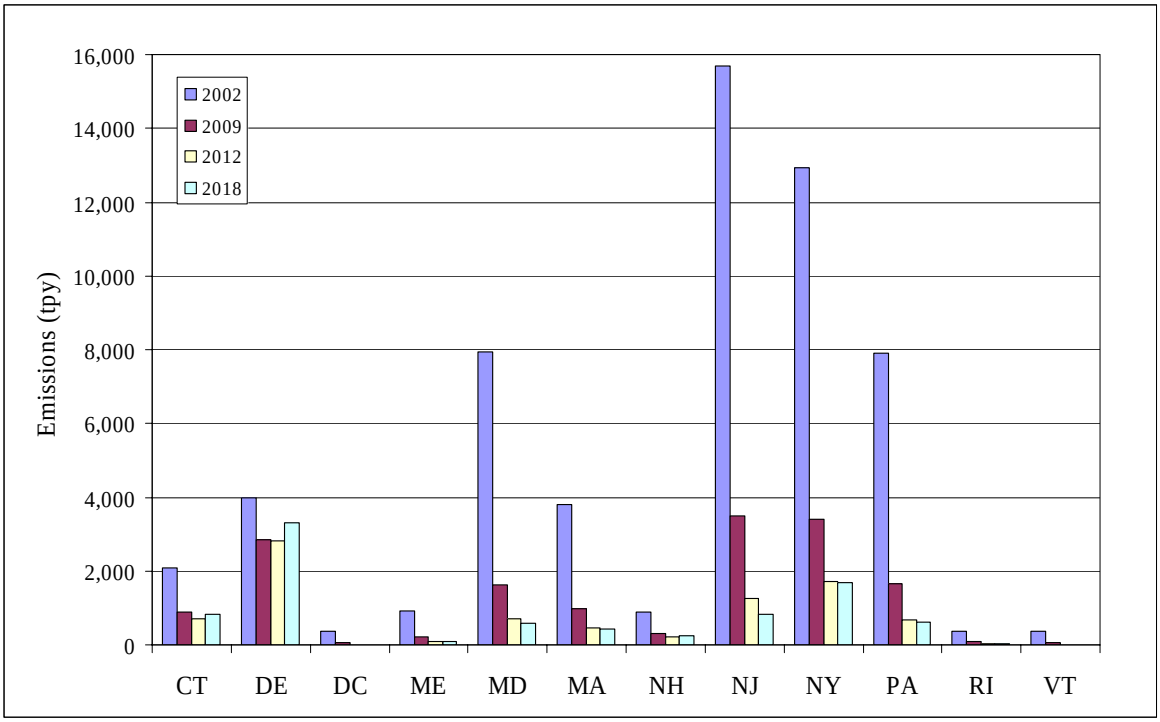


Table 4-7b NONROAD Model Sources
OTB/OTW Annual SO2 Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	1,377	249	39	28
DE	513	90	12	8
DC	341	59	6	3
ME	772	132	24	19
MD	2,569	452	63	42
MA	2,428	429	66	47
NH	673	119	20	16
NJ	3,525	607	93	67
NY	6,966	1,208	182	130
PA	5,292	917	135	92
RI	336	60	10	7
VT	368	64	10	8
Total	**25,159**	**4,387**	**661**	**467**

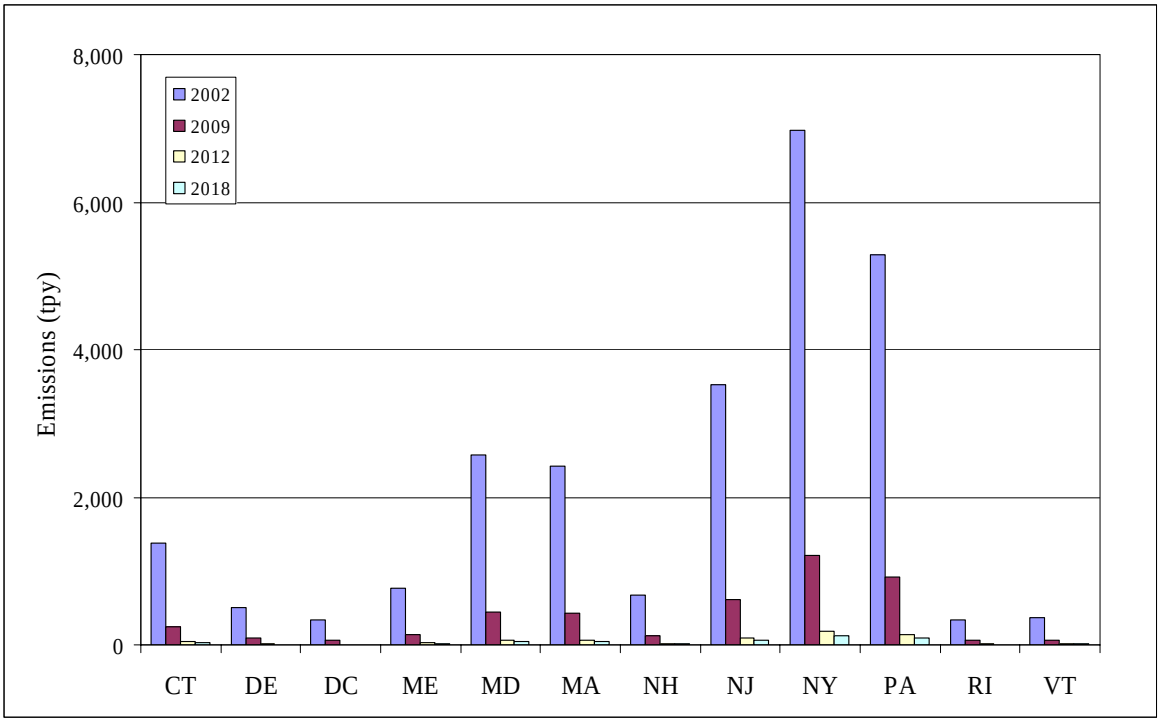


Table 4-7c Aircraft, Locomotive, and Commercial Marine Sources OTB/OTW Annual SO2 Emission Projections (tons per year)

State	2002	2009	2012	2018
CT	711	638	672	787
DE	3,470	2,761	2,822	3,288
DC	34	7	3	2
ME	145	69	58	63
MD	5,372	1,186	643	535
MA	1,363	554	404	395
NH	218	191	198	230
NJ	12,161	2,901	1,160	765
NY	5,953	2,179	1,542	1,556
PA	2,623	742	532	515
RI	42	33	32	35
VT	5	4	5	5
Total	**32,097**	**11,264**	**8,070**	**8,176**

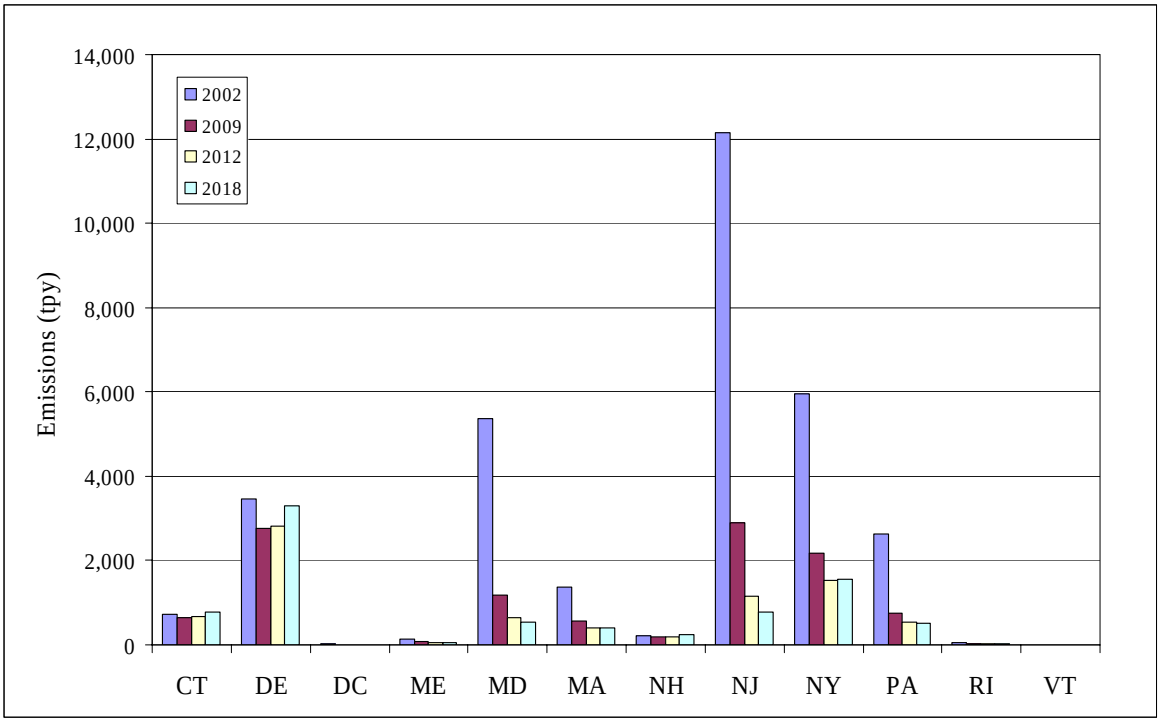


Table 4-8a All Nonroad Sources
OTB/OTW Annual VOC Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	33,880	24,910	22,657	20,694
DE	8,010	6,440	6,044	5,653
DC	2,073	1,559	1,438	1,369
ME	31,144	29,445	27,093	21,988
MD	56,330	43,260	40,266	37,969
MA	56,749	43,429	39,713	36,306
NH	22,377	19,651	17,933	15,003
NJ	83,919	62,920	57,769	53,625
NY	157,612	128,421	117,770	104,562
PA	102,331	84,744	78,630	69,956
RI	7,780	6,038	5,640	5,389
VT	10,548	10,105	9,304	7,566
Total	**572,751**	**460,922**	**424,257**	**380,080**

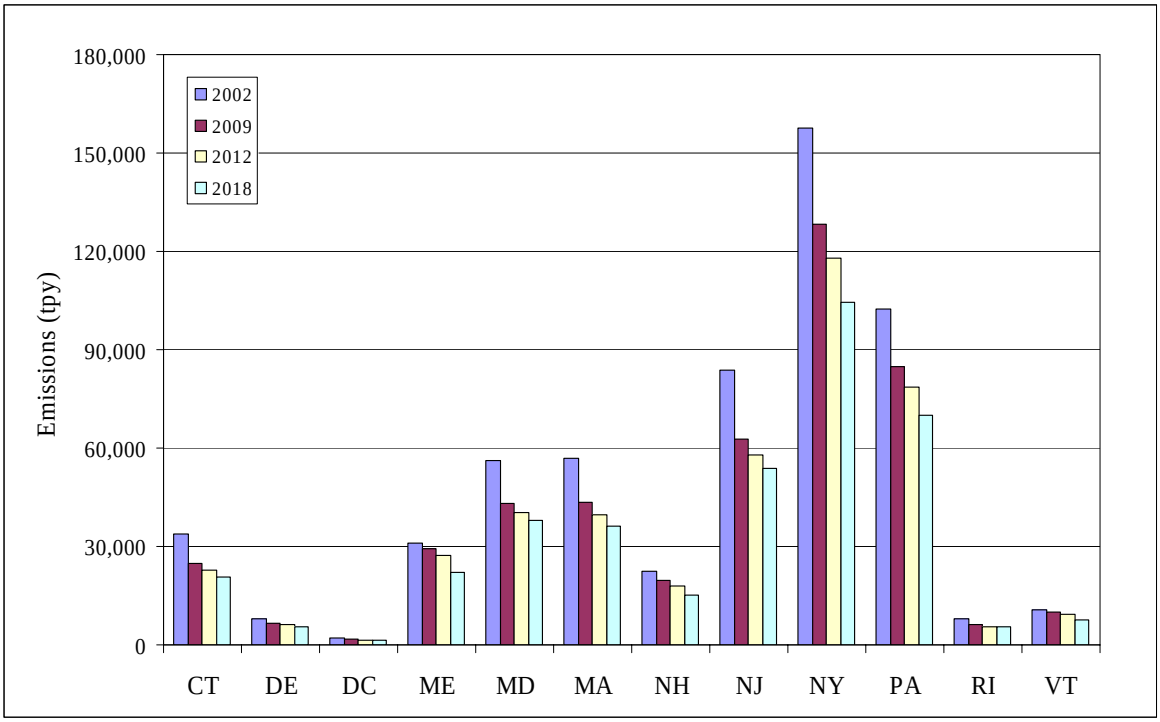


Table 4-8b NONROAD Model Sources
OTB/OTW Annual VOC Emission Projections
(tons per year)

State	2002	2009	2012	2018
CT	33,519	24,546	22,286	20,308
DE	7,531	5,943	5,533	5,115
DC	2,053	1,540	1,419	1,351
ME	30,741	29,030	26,669	21,547
MD	53,035	39,731	36,638	34,106
MA	54,836	41,473	37,706	34,185
NH	22,238	19,476	17,752	14,810
NJ	81,900	60,878	55,682	51,451
NY	155,475	126,265	115,553	102,224
PA	99,241	82,094	75,941	67,186
RI	7,699	5,956	5,556	5,302
VT	10,520	10,076	9,273	7,533
Total	**558,788**	**447,006**	**410,009**	**365,117**

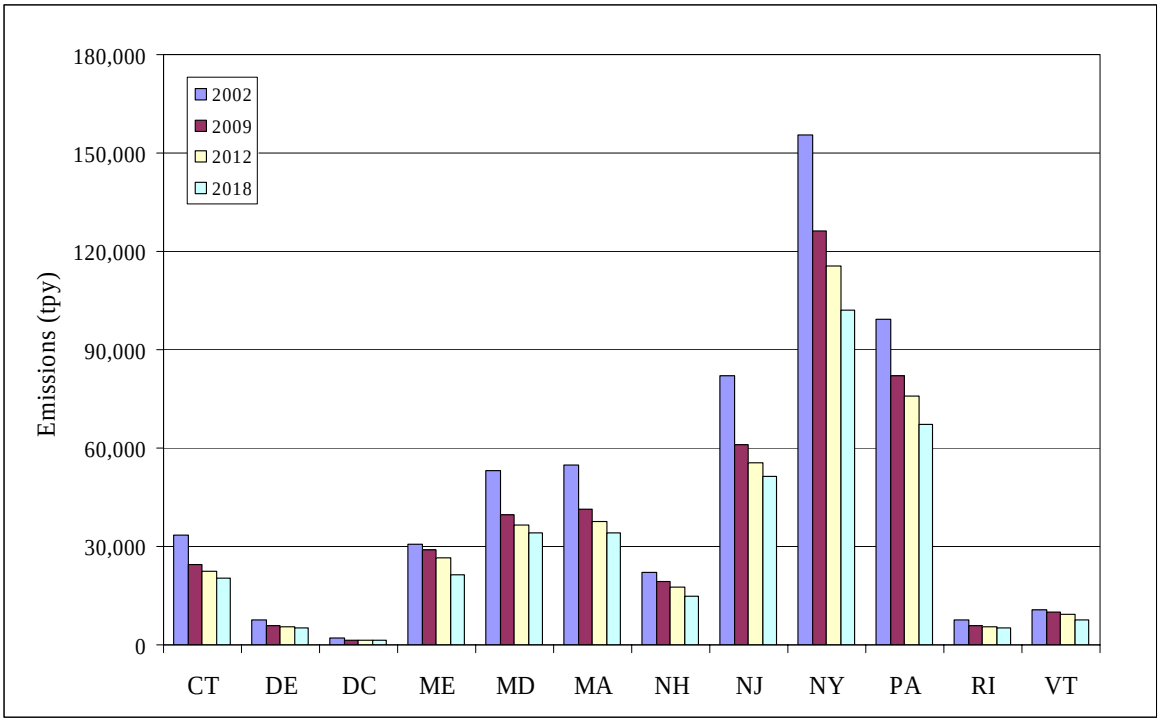
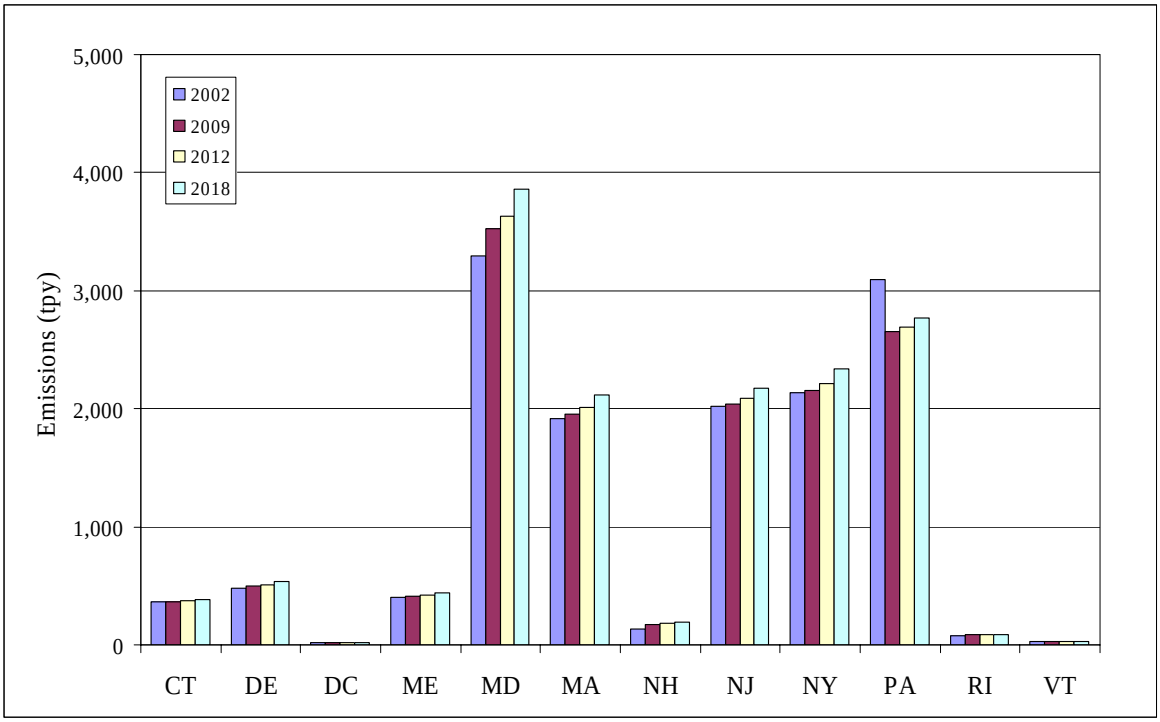


Table 4-8c Aircraft, Locomotive, and Commercial Marine Sources OTB/OTW Annual VOC Emission Projections (tons per year)

State	2002	2009	2012	2018
CT	361	364	371	386
DE	480	497	511	538
DC	20	19	19	18
ME	403	415	424	441
MD	3,295	3,529	3,628	3,863
MA	1,913	1,956	2,007	2,121
NH	139	175	181	193
NJ	2,019	2,042	2,087	2,174
NY	2,137	2,156	2,217	2,338
PA	3,090	2,650	2,689	2,770
RI	81	82	84	87
VT	27	29	31	33
Total	**13,964**	**13,916**	**14,248**	**14,963**



5.0 BEYOND-ON-THE-WAY EMISSION INVENTORY

The States are considering additional control measures as part of their planning to achieve regional haze goals and to attain the ozone and PM2.5 National Ambient Air Quality Standards (NAAQS). To accomplish this, many of the states will need to implement additional measures to reduce emissions. As such, the Ozone Transport Commission (OTC) undertook an exercise to identify a suite of additional control measures that could be used by the states in the Ozone Transport Region (OTR) in attaining their air quality goals.

Based on the analyses conducted by various OTC Workgroups, the OTC Commissioners made several recommendations at the Commissioner's meeting in Boston on June 7, 2006:

- *Memorandum of Understanding Among the States of the Ozone Transport Commission on a Regional Strategy Concerning the Integrated Control of Ozone Precursors from Various Sources*
- *Resolution 06-02 of the Ozone Transport Commission Concerning Coordination and Implementation of Regional Ozone Control Strategies for Certain Source Categories*
- *Statement of the Ozone Transport Commission Concerning Multi-Pollutant Emission Control of Electric Generating Units*
- *Resolution 06-03 of the Ozone Transport Commission Concerning Federal Guidance and Rulemaking for Nationally-Relevant Ozone Control Measures*

The Commissioners recommended that States consider emission reductions from the following source categories:

- Consumer Products
- Portable Fuel Containers
- Adhesives and Sealants Application
- Diesel Engine Chip Reflash
- Cutback and Emulsified Asphalt Paving
- Asphalt Production Plants
- Cement Kilns
- Glass Furnaces
- Industrial, Commercial, and Institutional (ICI) Boilers
- Regional Fuels
- Electric Generating Units (EGUs)

This suite of controls for the above source categories constitutes a "beyond-on-the-way" (BOTW) scenario to be used in modeling ozone, fine particles, and regional haze in the OTR and MANE-VU regions.

For the MANE-VU modeling inventory, each state was asked to complete a matrix to identify which of the above source category control measures to include and in which years the control measure should be applied. This section documents the emission reductions anticipated to result from the implementation of the above control measures based on the state recommendations for measures to include for each state, source category, and projection year. There are five subsections discussing the control measure and emission reductions for the five source category sectors: nonEGU point sources, area sources, EGUs, onroad mobile sources, and nonroad mobile sources.

5.1 NONEGU POINT SOURCES

This Section describes the analysis of the control measures to reduce emissions from non-EGU point sources. The control measures included in this analysis reduce emissions for the following pollutants and nonEGU point source categories:

- NOx measures: asphalt production plants; cement kilns; glass and fiberglass furnaces; low sulfur heating oil for commercial and institutional units; and ICI boilers (natural gas, #2 fuel oil, #4/#6 fuel oil, and coal);
- Primary PM10 and PM2.5 measure: commercial heating oil;
- SO2 measures: commercial heating oil and ICI boilers (#2 fuel oil, #4/#6 fuel oil, and coal); and
- VOC measure: adhesives and sealants application;

For the MANE-VU modeling inventory, each state was asked to complete a matrix to identify which nonEGU control measures to include and in which years the control measure should be applied. Table 5.1 summarizes the staff recommendations for NOx control measures to include in the BOTW regional modeling inventory for non-EGU source categories (except ICI boilers). Table 5.2 summarizes the staff recommendations for NOx emission reductions for ICI boilers. Tables 5.3 and 5.4 summarize the staff recommendations for control measures to include in the BOTW regional modeling inventory for SO2 and VOC emissions, respectively. The following subsections describe the emission reductions anticipated for each of the control measures.

Table 5.1 State Staff Recommendations for Control Measures to Include in BOTW Regional Modeling – NOx Emissions from NonEGU Point Sources

	Asphalt Production Plants			Cement Kilns			Glass and Fiberglass Furnaces			Commercial & Institutional Heating Oil		
State	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**
CT	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	No	No	Yes
DE	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A	No	No	No
DC	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	No	Yes	Yes
ME	No	No	No	Yes	Yes	Yes	N/A	N/A	N/A	No	Yes	Yes
MD	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
MA	No	No	No	N/A	N/A	N/A	Yes	Yes	Yes	No	Yes	Yes
NH	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A	No	No	Yes
NJ	No	Yes	Yes	N/A	N/A	N/A	No	Yes[2]	Yes[2]	No	Yes	Yes
NY	Yes	Yes	Yes	Yes[1]	Yes[1]	Yes[1]	Yes[2]	Yes[3]	Yes[3]	No	Yes	Yes
PA	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
RI	No	No	No	N/A	N/A	N/A	No	No	No	No	Yes	Yes
VT	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A	No	No	No

Yes - Include emission reductions from control measure in modeling inventory
No - Do not include emission reduction from control measure in modeling inventory
N/A – No facilities of this type located in the state

1) New York specified that a 40 percent NOx reduction from cement kilns should be used.
2) New Jersey specified a 20 percent NOx reduction from glass furnaces in 2012 and a 35 percent reduction in 2018.
3) New York specified a 70 percent NOx reduction from glass furnaces beginning in 2009.

Table 5.2 State Staff Recommendations for Control Measures to Include in BOTW Regional Modeling – NOx Emissions from ICI Boilers

	ICI Boilers < 25 mmBTU/hour			ICI Boilers 25-50 mmBtu/hour			ICI Boilers 50-100 mmBtu/hour			ICI Boilers 100-250 mmBtu/hour			ICI Boilers >250 mmBtu/hour (see note 7)		
State	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**
CT	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	No	No	No
DE	No	No	No	No	No	No	No	No	No	Yes[4]	Yes[4]	Yes[4]	No	No	No
DC	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ME	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MD	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No
MA	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
NH	No	No	No	Yes[5]	Yes[5]	Yes[5]	Yes	Yes	Yes	Yes[5]	Yes[5]	Yes[5]	No	No	No
NJ	Yes[2]	Yes[2]	Yes[2]	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No
NY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
PA	No[3]	No[3]	No[3]	No[3]	No[3]	No[3]	No[3]	No[3]	No[3]	No[6]	No[6]	No[6]	No	No	No
RI	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
VT	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

Yes - Include emission reductions from control measure in modeling inventory
No - Do not include emission reduction from control measure in modeling inventory
N/A – No facilities of this type located in the state
1) Connecticut is now pursuing adoption of model rule for boilers of all sizes at major and non-major sources
2) New Jersey specified a 5 percent reduction in 2009, 10 percent in 2012, and 10 percent in 2018
3) Pennsylvania specified no reductions since sources already covered by statewide NOx RACT regulation
4) Delaware is developing regulation for ICI boilers greater than 200 mmBtu/hour – no plans for regulating smaller units
5) New Hampshire specified a 40 percent reduction for 25-50 mmBtu/hour boilers, and a 10 percent reduction for natural gas-fired 100-250 mmBtu/hour boilers
6) Pennsylvania specified no reductions since sources in the 5-county Philadelphia area are already covered by the Small Sources of NOx regulation and do not plan on expanding the regulation outside of the corridor at this time
7) Resolution 06-02 specified the reduction for > 250mmBtu/hour boilers to be the "same as EGUs of similar size." The OTC Commissioners have not yet recommended an emission rate or percent reduction for EGUs. As a result, no reductions for ICI boilers > 250 mmBtu/hour were included in the BOTW inventory.

Table 5.3 State Staff Recommendations for Control Measures to Include in BOTW Regional Modeling – SO2 Emissions from NonEGU Point Sources

	Commercial & Institutional Heating Oil			ICI Boilers (low sulfur fuel)		
State	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**
CT	No	No	Yes	No	No	No
DE	No	No	No	No	No	No
DC	No	Yes	Yes	No	No	No
ME	No	Yes	Yes	No	No	No
MD	No	Yes	Yes	No	No	No
MA	No	Yes	Yes	No	No	No
NH	No	No	Yes	No	No	No
NJ	No	Yes	Yes	No	No	No
NY	No	Yes	Yes	No	No	No
PA	No	Yes	Yes	No	No	No
RI	No	Yes	Yes	No	No	No
VT	No	No	No	No	No	No

Yes - Include emission reductions from control measure in modeling inventory
No - Do not include emission reduction from control measure in modeling inventory

Table 5.4 State Staff Recommendations for Control Measures to Include in BOTW Regional Modeling – VOC Emissions from NonEGU Point Sources

	Adhesives and Sealants Application		
State	**2009**	**2012**	**2018**
CT	Yes	Yes	Yes
DE	Yes	Yes	Yes
DC	Yes	Yes	Yes
ME	Yes	Yes	Yes
MD	Yes	Yes	Yes
MA	Yes	Yes	Yes
NH	No	Yes	Yes
NJ	No[1]	No[1]	No[1]
NY	Yes	Yes	Yes
PA	Yes	Yes	Yes
RI	Yes	Yes	Yes
VT	No	No	No

Yes - Include emission reductions from control measure in modeling inventory
No - Do not include emission reduction from control measure in modeling inventory

1) New Jersey indicated that the reductions from the adhesives and sealants application control measure should only apply to area source - no reductions for point sources (SCC 4-02-007-xx) were included due to inventory double-counting issues, not due to rule change issues.

5.1.1 Adhesives and Sealants Application

The OTC 2006 model rule for adhesives and sealants is based on the reasonably available control technology (RACT) and best available retrofit control technology (BARCT) determination by the California Air Resources Board (CARB) developed in 1998. Adhesive and sealant emission sources are classified as both point sources and area sources. About 96 percent of adhesive and sealant VOC emissions in the OTC states fall into the area source category. The remaining four percent of the VOC emissions are included in the point source inventory.

The emission reduction benefit estimation methodology is based on information developed and used by CARB for their RACT/BARCT determination in 1998. For point sources, we first identified those sources that were applying adhesives and sealants (using the source classification code of 4-02-007-xx, adhesives application). Next, we reviewed the MANEVU inventory to determine whether these sources had existing capture and control systems. Most of the sources did not have control information in the NIF database. However, several sources reported capture and destruction efficiencies in the 70 to 99 percent range, with a few sources reporting capture and destruction efficiencies of 99+ percent. Sources with existing control systems that exceeded an 85 percent overall capture and destruction efficiency would comply with the OTC 2006 model rule provision for add-on air pollution control equipment; therefore, no additional reductions were calculated for these sources. For point sources without add-on control equipment, we used the 64.4 percent reduction based on the CARB determination.

5.1.2 Asphalt Production Plants

In Resolution 06-02, the OTC Commissioners recommended that OTC member states pursue as necessary and appropriate state-specific rulemakings or other implementation methods to establish emission reduction percentages, emission rates or technologies that would result in about a 35 percent reduction in NOx emissions. The reductions estimated for this category only include emissions included in the MANE-VU point source emission inventory. Only emissions from major point sources are typically included in the MANE-VU point source database. Emissions from non-major sources are not explicitly contained in the area source inventory; rather, the emissions from non-major asphalt plants are likely lumped together in the general area source industrial and commercial fuel use category. Therefore, there is some uncertainty regarding the actual reductions that will occur as since minor sources are not specifically identified in the MANE-VU inventory.

5.1.3 Cement Kilns

In Resolution 06-02, the OTC Commissioners recommended that OTC member states pursue as necessary and appropriate state-specific rulemakings or other implementation methods to establish emission reduction percentages, emission rates or technologies that would result in about a 60 percent reduction in NOx emissions from uncontrolled levels. Cement kilns were already included in Phase I of the NO_x SIP call. Emission reductions resulting from the NOx SIP call were accounted for in the 2009 OTB inventory. For the cement kilns in Maryland and New York, a default control efficiency value of 25 percent was applied to account for the reductions expected from the NOx SIP call. For the cement kilns in Pennsylvania, the state provided their best estimates of the actual control efficiency expected for each kiln after the NOx SIP Call. There is a cement kiln in Maine, but it is not subject to the NOx SIP call. To calculate the additional reductions from the OTC 2006 Control Measure, MACTEC back calculated uncontrolled emissions from the 2009 base year inventory based on the controls applied to account for the NOx SIP Call. Once the uncontrolled emissions were calculated, MACTEC applied the 60 percent emission reduction guideline recommended by the OTC Commissioners, except for the kilns in New York. Staff from New York indicated that a 40 percent emission reduction should be used for modeling purposes.

5.1.4 Glass and Fiberglass Furnaces

In Resolution 06-02, the OTC Commissioners recommended that OTC member states pursue as necessary and appropriate state-specific rulemakings or other implementation methods to establish emission reduction percentages, emission rates or technologies that would result in about an 85 percent reduction in NOx emissions from uncontrolled levels. The NOx emission reduction benefit was calculated by applying an 85 percent reduction to the projected 2009 base inventory, except in New Jersey and New York. New Jersey specified a 20 percent NOx reduction from glass furnaces in 2012 and a 35 percent reduction in 2018. New York specified a 70 percent NOx reduction from glass furnaces beginning in 2009. The estimated 85% reductions does not take into account existing controls at the facilities. The OTC states are currently working with the glass industry to obtain additional data to better identify the controls already in place. This will allow for a better calculation of the emission reduction benefits.

5.1.5 Industrial, Commercial, and Institutional Boilers

In Resolution 06-02, the OTC Commissioners recommended that OTC member states pursue as necessary and appropriate state-specific rulemakings or other implementation methods to establish emission reduction percentages, emission rates or technologies for ICI

boilers based on guidelines that varied by boiler size and fuel type. Specifically, the following guidelines were provided:

	NOx Reduction from 2009 Base Emissions by Fuel Type			
Boiler Size (mmBtu/hour)	**Natural Gas**	**#2 Fuel Oil**	**#4/#6 Fuel Oil**	**Coal**
< 25	10	10	10	10
25 to 50	50	50	50	50*
50 to 100	10	10	10	10*
100 to 250	75	40	40	40*
>250	**	**	**	**

* Resolution 06-02 did not specify a percent reduction for coal; for modeling purposes, the same percent reduction specified for #4/#6 fuel oil was used for coal

** Resolution 06-02 specified the reduction for > 250mmBtu/hour boilers to be the "same as EGUs of similar size." The OTC Commissioners have not yet recommended an emission rate or percent reduction for EGUs. As a result, no reductions for ICI boilers > 250 mmBtu/hour were included in the BOTW inventory.

Since the above guidelines vary by boiler size and fuel type, the specific percent reduction applied to an individual source depends on the SCC and design capacity of the source. The SCC identifies the fuel type, while the design capacity identifies the boiler size. In many cases, the design capacities in the MANE-VU NIF database were missing. MACTEC used the following hierarchy in filling in gaps where design capacities were missing.

- Use the design capacity field from the NIF EU table, if available;
- Use the design capacities provided by State/local agencies to fill in the data gaps (Allegheny County, District of Columbia, Maryland, New Jersey, Philadephia County);
- Use design capacity as reported either the Unit Description field in the NIF EU table or the Process Description field from the NIF EP table, if available;
- Use design capacity from the source's Title V permit, if the Title V permit was on-line;
- Use the SCC description to determine the design capacity (for example, SCC 1-02-006-01 describes a >100 mmBtu/hr natural gas-fired boiler, SCC 1-02-006-02 describes a 10-100 mmBtu/hr natural gas-fired boiler)

After performing this gap-filling exercise, MACTEC was able to assign over 97 percent of the NOx emissions to a specific boiler size range. For the remaining sources where MACTEC could not determine the boiler size (which accounted for only 3 percent of the NOx emissions), MACTEC assumed that these boilers were < 25 mmBtu/hr.

5.1.6 Commercial and Institutional Heating Oil

The BOTW control measure for heating oil is based on NESCAUM's report entitled "Low Sulfur Heating Oil in the Northeast States: An Overview of Benefits, Costs and Implementation Issues." NESCAUM estimates that reducing the sulfur content of heating oil from 2,500 ppm to 500 ppm lowers SO2 emissions by 75 percent, PM emissions by 80 percent, NOx emissions by 10 percent. The 500 ppm sulfur heating oil is not expected to available on a widespread basis until 2012 at the earliest. These percent reductions were applied to commercial distillate oil category (SCC 1-03-005-xx and 1-05-002-05). These percent reductions were applied based on the state's recommendations in the matrix which identifies control measures to include and in which years the control measure should be accounted for in the modeling inventory.

5.1.7 BOTW NonEGU Point Source NIF, SMOKE, and Summary Files

The Version 3.1 file names and descriptions delivered to MARAMA are shown in Table 5-5.

Table E-1 shows the anticipated percent reductions by SCC and year for the nonEGU point source BOTW control measures.

5.1.8 BOTW NonEGU Point Source Emission Summaries

Emission summaries by state, year, and pollutant are presented in Tables 5-6 through 5-12 for CO, NH3, NOx, PM10-PRI, PM25-PRI, SO2, and VOC, respectively.

Table 5-5 BOTW NonEGU Point Source NIF, IDA, and Summary File Names

File Name	Date	Description
MANEVU_BOTW2009_NonEGU_NIFV3_1.mdb	Dec. 4, 2006	Version 3.1 of 2009 BOTW nonEGU source NIF inventory
MANEVU_BOTW2012_NonEGU_NIFV3_1.mdb	Dec. 4, 2006	Version 3.1 of 2012 BOTW nonEGU source NIF inventory
MANEVU_BOTW2018_NonEGU_NIFV3_1.mdb	Dec. 4, 2006	Version 3.1 of 2018 BOTW nonEGU source NIF inventory
MANEVU_BOTW2009_NonEGU_IDAV3_1.txt	Nov. 22, 2006	Version 3.1 of 2009 BOTW nonEGU source inventory in SMOKE IDA format
MANEVU_BOTW2012_NonEGU_IDAV3_1.txt	Nov. 22, 2006	Version 3.1 of 2012 BOTW nonEGU source inventory in SMOKE IDA format
MANEVU_BOTW2018_NonEGU_IDA3V_1.txt	Nov. 22, 2006	Version 3.1 of 2018 BOTW nonEGU source inventory in SMOKE IDA format
MANEVU OTB BOTW NonEGU V3_1 State Summary.xls	Nov. 22, 2006	Spreadsheet with state totals by pollutant for all nonEGU sources
MANEVU OTB BOTW NonEGU V3_1 State SCC Summary.xls	Dec. 4, 2006	Spreadsheet with SCC totals by state and pollutant for all nonEGU sources.

Table 5-6 NonEGU Point Sources
OTB/OTW and BOTW Annual CO Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	2,157	2,251	2,251	2,306	2,306	2,415	2,415
DE	8,812	9,037	9,037	8,748	8,748	8,651	8,651
DC	247	283	283	299	299	327	327
ME	9,043	10,147	10,147	10,467	10,467	11,433	11,433
MD	94,536	104,012	104,012	111,174	111,174	141,342	141,342
MA	10,793	12,027	12,027	12,552	12,552	13,426	13,426
NH	774	858	858	871	871	907	907
NJ	8,209	10,076	10,076	10,806	10,806	12,244	12,244
NY	53,259	61,411	61,411	65,541	65,541	78,876	78,876
PA	105,815	116,430	116,430	121,251	121,251	140,908	140,908
RI	1,712	1,764	1,764	1,821	1,821	1,927	1,927
VT	220	250	250	254	254	267	267
Total	**295,577**	**328,546**	**328,546**	**346,090**	**346,090**	**412,723**	**412,723**

No BOTW controls were considered for CO.

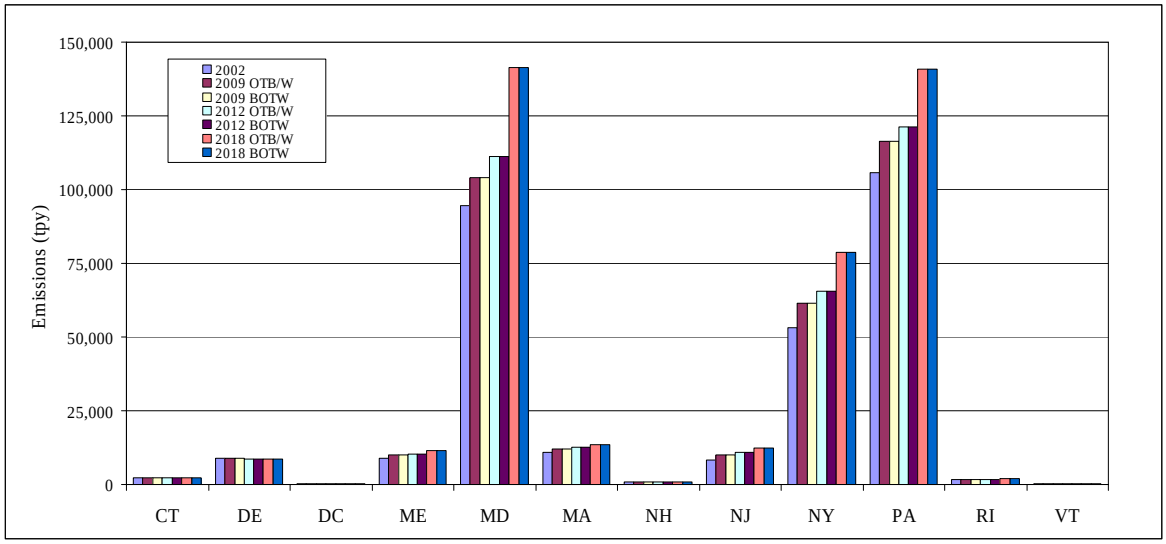


Table 5-7 NonEGU Point Sources
OTB/OTW and BOTW Annual NH3 Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	0	0	0	0	0	0	0
DE	153	145	145	138	138	134	134
DC	4	5	5	5	5	5	5
ME	700	796	796	809	809	859	859
MD	305	347	347	366	366	410	410
MA	462	510	510	521	521	563	563
NH	37	46	46	50	50	60	60
NJ	0	0	0	0	0	0	0
NY	1,027	1,081	1,081	1,128	1,128	1,296	1,296
PA	1,170	1,307	1,307	1,363	1,363	1,591	1,591
RI	58	64	64	68	68	68	68
VT	0	0	0	0	0	0	0
Total	**3,916**	**4,301**	**4,301**	**4,448**	**4,448**	**4,986**	**4,986**

No BOTW controls were considered for NH3.

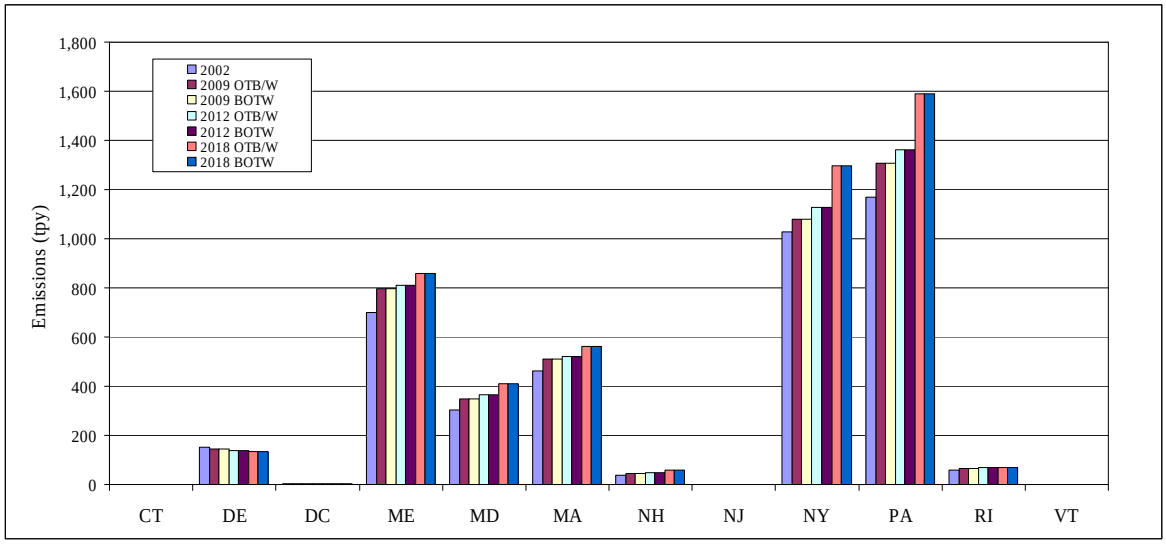


Table 5-8 NonEGU Point Sources
OTB/OTW and BOTW Annual NOx Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	6,773	7,236	6,820	7,465	7,047	7,921	7,501
DE	4,372	4,076	4,076	4,135	4,135	4,246	4,246
DC	480	548	548	577	577	627	627
ME	12,108	14,285	12,914	14,661	13,183	15,753	14,137
MD	21,940	19,401	16,015	20,399	16,819	22,797	18,888
MA	18,292	20,603	20,047	21,372	20,768	23,040	22,301
NH	1,188	1,384	1,120	1,394	1,131	1,435	1,169
NJ	15,812	16,498	16,463	17,091	15,901	18,805	17,464
NY	34,253	33,648	28,529	34,586	29,256	37,133	31,305
PA	89,136	89,932	76,215	93,526	72,779	103,137	79,186
RI	2,308	2,449	2,449	2,471	2,471	2,442	2,442
VT	386	462	462	460	460	466	466
Total	**207,048**	**210,522**	**185,658**	**218,137**	**184,527**	**237,802**	**199,732**

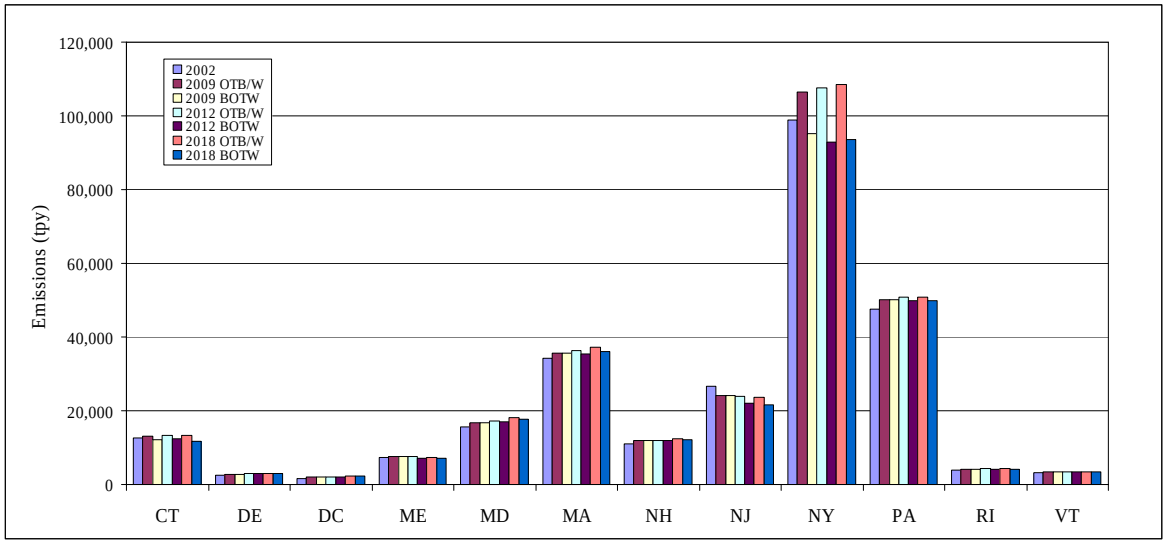


Table 5-9 NonEGU Point Sources
OTB/OTW and BOTW Annual PM10-PRI Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	990	1,035	1,035	1,058	1,058	1,106	1,104
DE	1,820	1,486	1,486	1,475	1,475	1,487	1,487
DC	157	178	178	186	182	198	194
ME	6,120	7,088	7,088	7,133	7,114	7,496	7,477
MD	4,739	4,797	4,797	5,040	5,039	5,828	5,827
MA	4,212	5,006	5,006	5,088	5,004	5,314	5,227
NH	918	1,084	1,084	1,097	1,097	1,129	1,129
NJ	3,439	4,205	4,205	4,417	4,412	4,959	4,953
NY	5,072	5,221	5,221	5,444	5,395	6,098	6,048
PA	23,282	25,169	25,169	26,307	26,258	29,516	29,466
RI	296	333	333	331	318	330	316
VT	235	267	267	272	272	296	296
Total	**51,280**	**55,869**	**55,869**	**57,848**	**57,624**	**63,757**	**63,524**

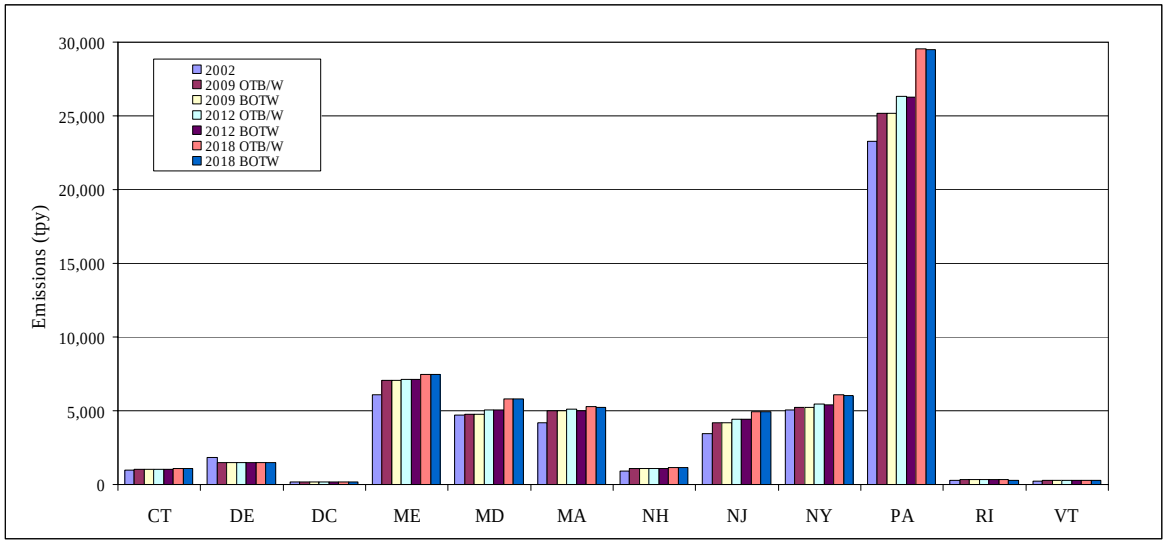


Table 5-10 NonEGU Point Sources
OTB/OTW and BOTW Annual PM25-PRI Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	822	871	871	894	894	939	937
DE	1,606	1,256	1,256	1,245	1,245	1,254	1,254
DC	128	145	145	152	149	164	161
ME	4,899	5,675	5,675	5,690	5,678	5,935	5,922
MD	2,772	2,861	2,861	3,011	3,010	3,503	3,501
MA	2,953	3,554	3,554	3,574	3,510	3,660	3,594
NH	857	1,008	1,008	1,021	1,021	1,052	1,052
NJ	2,947	3,588	3,588	3,764	3,760	4,234	4,230
NY	3,355	3,535	3,535	3,688	3,646	4,161	4,117
PA	12,360	13,578	13,578	14,159	14,114	15,878	15,831
RI	180	200	200	198	188	194	184
VT	198	226	226	229	229	246	246
Total	**33,077**	**36,497**	**36,497**	**37,625**	**37,444**	**41,220**	**41,029**

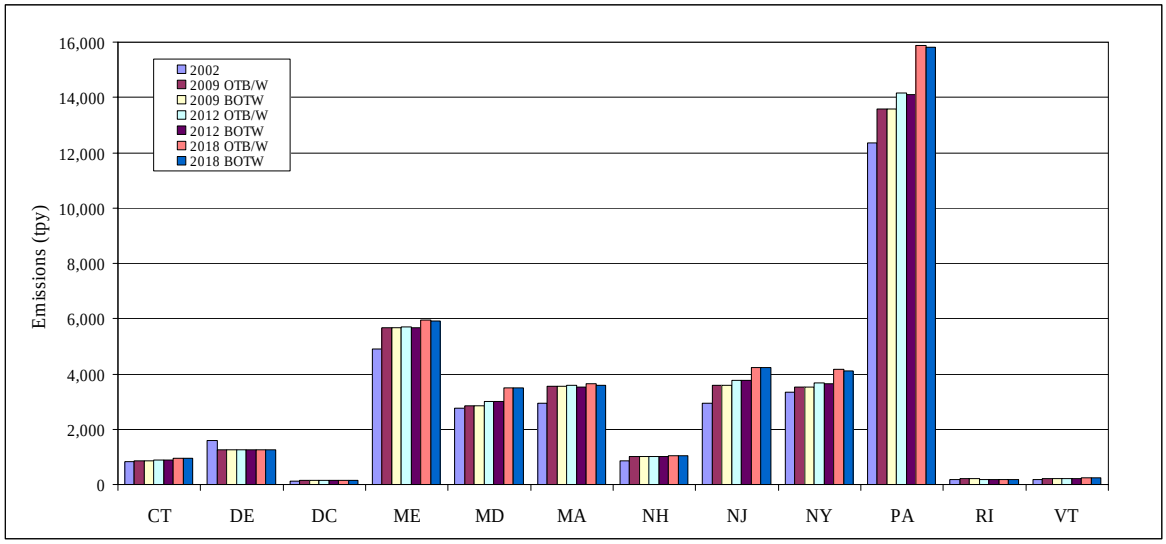


Table 5-11 NonEGU Point Sources
OTB/OTW and BOTW Annual SO2 Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	2,438	2,528	2,528	2,567	2,567	2,644	2,596
DE	35,706	7,117	7,117	7,401	7,401	7,610	7,610
DC	618	707	707	735	533	780	554
ME	14,412	18,656	18,656	18,492	18,393	18,794	18,692
MD	34,193	34,223	34,223	35,373	35,342	38,921	38,886
MA	14,766	18,185	18,185	18,442	17,305	18,955	17,778
NH	2,436	3,099	3,099	3,098	3,098	3,114	3,099
NJ	9,797	7,141	7,141	7,234	7,196	7,855	7,816
NY	58,227	62,922	62,922	64,484	64,432	67,545	67,491
PA	88,259	90,735	90,735	93,441	93,206	99,924	99,681
RI	2,651	3,163	3,163	3,182	3,018	3,164	3,000
VT	874	1,182	1,182	1,147	1,147	1,127	1,127
Total	**264,377**	**249,658**	**249,658**	**255,596**	**253,638**	**270,433**	**268,330**

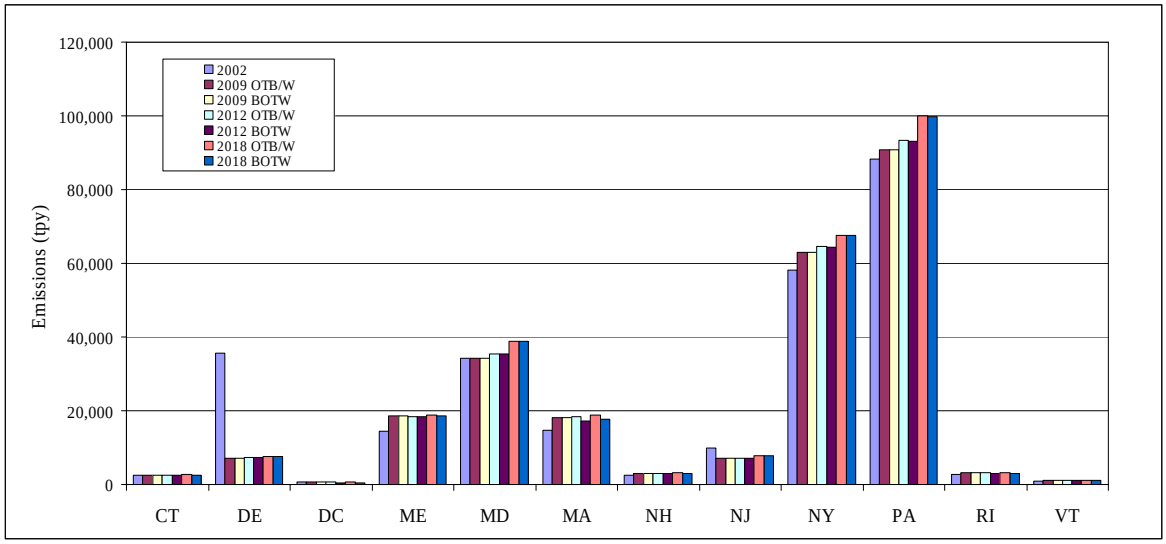
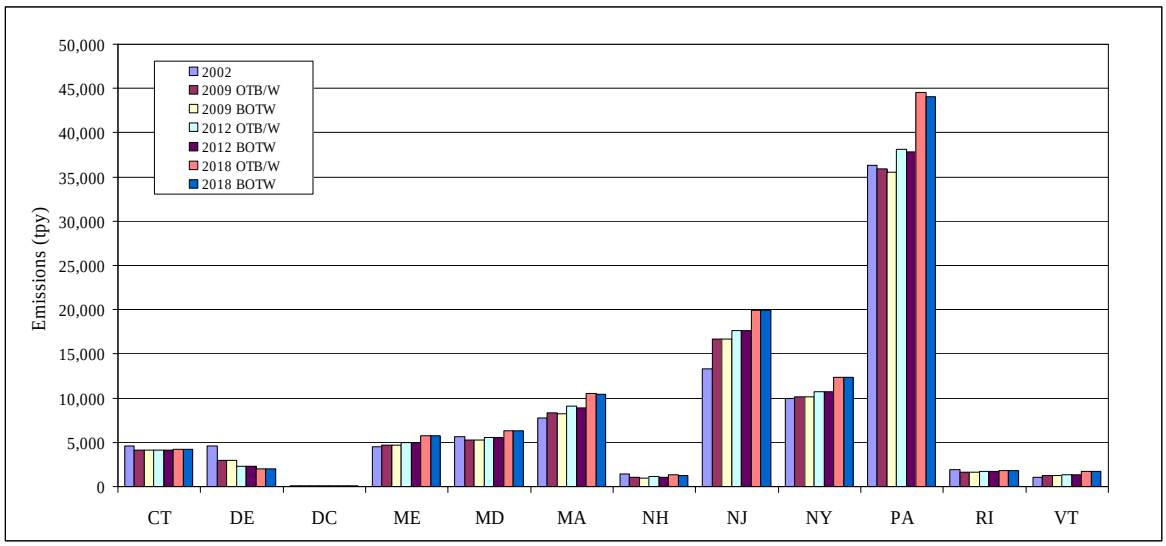


Table 5-12 NonEGU Point Sources
OTB/OTW and BOTW Annual VOC Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	4,604	4,114	4,111	4,152	4,149	4,230	4,227
DE	4,645	2,987	2,981	2,311	2,305	1,993	1,987
DC	69	72	72	75	75	85	85
ME	4,477	4,740	4,740	4,985	4,985	5,709	5,708
MD	5,676	5,297	5,279	5,578	5,559	6,301	6,279
MA	7,794	8,381	8,273	9,061	8,940	10,564	10,418
NH	1,459	1,060	1,005	1,132	1,069	1,294	1,219
NJ	13,318	16,702	16,702	17,621	17,621	19,915	19,915
NY	9,933	10,157	10,141	10,750	10,732	12,354	12,333
PA	36,326	35,875	35,548	38,162	37,795	44,537	44,085
RI	1,898	1,640	1,628	1,695	1,683	1,812	1,799
VT	1,079	1,254	1,238	1,365	1,347	1,730	1,707
Total	**91,278**	**92,279**	**91,718**	**96,887**	**96,260**	**110,524**	**109,762**



5.2 AREA SOURCES

This Section describes the analysis of the OTC and MANE-VU control measures to reduce emissions from area sources. The control measures included in this analysis reduce emissions for the following pollutants and area source categories:

- NOx measures: ICI boilers (natural gas, #2 fuel oil, #4/#6 fuel oil, and coal) and residential and commercial home heating oil;
- Primary PM10 and PM2.5 measures: residential and commercial home heating oil;
- SO2 measures: residential and commercial home heating oil, and ICI boilers (distillate oil).
- VOC measures: adhesives and sealants, emulsified and cutback asphalt paving, consumer products, and portable fuel containers;

For the MANE-VU modeling inventory, each state was asked to complete a matrix identify which control measures to include and in which years the control measure should be applied. Tables 5.13, 5.14, and 5.15 summarize the staff recommendations for control measures to include in the BOTW regional modeling inventory for NOx, SO2, and VOC respectively. The following subsections describe the emission reductions anticipated for each of the area source control measures.

5.2.1 Adhesives and Sealants

The OTC 2006 model rule for adhesives and sealants is based on the reasonably available control technology (RACT) and best available retrofit control technology (BARCT) determination by the California Air Resources Board (CARB) developed in 1998. Adhesive and sealant emission sources are classified as both point sources and area sources. About 96 percent of adhesive and sealant VOC emissions in the OTC states fall into the area source category. The remaining four percent of the VOC emissions are included in the point source inventory.

The emission reduction benefit estimation methodology for area sources is based on information developed and used by CARB for their RACT/BARCT determination in 1998. CARB estimates that the total industrial adhesive and sealant emissions in California to be about 45 tons per day (tpd). Solvent-based adhesive and sealant emissions are estimated to be about 35 tpd of VOC and water-based adhesive and sealant emissions are about 10 tpd of VOC.

Table 5.13 State Staff Recommendations for Control Measures to Include in BOTW Regional Modeling – NOx Area Sources

	ICI Boilers < 25 mmBTU/hour			ICI Boilers 25-50 mmBtu/hour			ICI Boilers 50-100 mmBtu/hour			Residential and Commercial Home Heating Oil		
State	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**
CT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
DE	No	No	No	No	No	No	No	No	No	No	No	No
DC	No	No	No	No	No	No	No	No	No	No	Yes	Yes
ME	No	No	No	No	No	No	No	No	No	No	Yes	Yes
MD	No	No	No	No	No	No	No	No	No	No	Yes	Yes
MA	No	No	No	No	No	No	No	No	No	No	Yes	Yes
NH	No	No	No	No	No	No	No	No	No	No	No	Yes
NJ	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
NY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
PA	No	No	No	No	No	No	No	No	No	No	Yes	Yes
RI	No	No	No	No	No	No	No	No	No	No	Yes	Yes
VT[1]	No	No	No	No	No	No	No	No	No	No	No	No

Yes - Include emission reductions from OTC 2006 control measure in modeling inventory
No - Do not include emission reduction from OTC 2006 control measure in modeling inventory

Table 5.14 State Staff Recommendations for Control Measures to Include in BOTW Regional Modeling – SO2 Area Sources

	ICI Boilers < 25 mmBTU/hour			ICI Boilers 25-50 mmBtu/hour			ICI Boilers 50-100 mmBtu/hour			Residential Home Heating Oil		
State	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**
CT	No	No	No	No	No	No	No	No	No	No	No	Yes
DE	No	No	No	No	No	No	No	No	No	No	No	No
DC	No	No	No	No	No	No	No	No	No	No	Yes	Yes
ME	No	No	No	No	No	No	No	No	No	No	Yes	Yes
MD	No	No	No	No	No	No	No	No	No	No	Yes	Yes
MA	No	No	No	No	No	No	No	No	No	No	Yes	Yes
NH	No	No	No	No	No	No	No	No	No	No	No	Yes
NJ	No	No	No	No	No	No	No	No	No	No	Yes	Yes
NY	No	No	No	No	No	No	No	No	No	No	Yes	Yes
PA	No	No	No	No	No	No	No	No	No	No	Yes	Yes
RI	No	No	No	No	No	No	No	No	No	No	Yes	Yes
VT[1]	No	No	No	No	No	No	No	No	No	No	No	No

Yes - Include emission reductions from OTC 2006 control measure in modeling inventory
No - Do not include emission reduction from OTC 2006 control measure in modeling inventory

Table 5.15 State Staff Recommendations for Control Measures to Include in BOTW Regional Modeling – VOC Area Sources

	Adhesives and Sealants			Emulsified and Cutback Asphalt Paving			Consumer Products			Portable Fuel Containers		
State	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**	**2009**	**2012**	**2018**
CT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DE	Yes	Yes	Yes	No[2]	No[2]	No[2]	Yes	Yes	Yes	Yes	Yes	Yes
DC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ME	Yes	Yes	Yes	No[3]	No[3]	No[3]	Yes	Yes	Yes	Yes	Yes	Yes
MD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
NH	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NJ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PA	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VT[1]	No	No	No	No	No	No	No	No	No	No	No	No

Yes - Include emission reductions from OTC 2006 control measure in modeling inventory
No - Do not include emission reduction from OTC 2006 control measure in modeling inventory

1) Vermont indicated that the modeling inventory should not reflect anything beyond the 2002 OTC control level for these source categories in Vermont.
2) Delaware's existing asphalt paving regulations are more stringent than the OTC 2006 control measure.
3) Maine has not yet determined whether to include emission reductions from the OTC 2006 control measure for asphalt paving. Maine's inventory includes emissions only from cutback asphalt; no emissions are reported for emulsified asphalt.

CARB estimated that emission reductions achieved by statewide compliance with the VOC limits in the RACT/BARCT determination will range from approximately 29 to 35 tpd (CARB 1998, pg. 18). These emission reductions correspond to a 64.4 to 77.8 percent reduction from uncontrolled levels. For OTC modeling purposes, we used the lower end of this range (i.e., 64.4 percent reduction) to estimate the emission benefit for area sources due to the OTC 2006 model rule.

5.2.2 Asphalt Paving

The OTC current guideline for asphalt paving calls for a complete ban on the use of cutback asphalt during the ozone season and limits the VOC content of emulsified asphalt to two percent or less. The proposal is still under evaluation. A 20 percent reduction in emissions from emulsified asphalt was assumed for the modeling inventory.

The current regulations in all MANE-VU states generally ban the use of cutback asphalt during the ozone season. In some states, there are a few exemptions from the ban that allow for the use of cutback during the ozone season. It has not yet been determined whether states will modify their cutback asphalt rules to eliminate the exemptions. Since the VOC emissions from the use of cutback asphalt during the ozone season are generally very small, MACTEC assumed that there will be no additional emission reductions from the use of cutback asphalt during the ozone season.

The emission reductions resulting from the two percent VOC content limit on emulsified asphalt depend on the baseline VOC content of emulsified asphalt. The baseline VOC content may range from 0 to 12 percent. New Jersey used a VOC content of 8 percent in their baseline emission calculations (based on the 8 percent limit in their current rule). Reducing the VOC content to 2 percent in New Jersey will result in a 75 percent reduction. Delaware already bans the use of emulsified asphalt that contains any VOC, so there is no reduction in Delaware. Several other states used an average VOC content of 2.5 percent when developing their emission inventory. Thus, reducing the average VOC content from 2.5 percent to 2.0 percent results in a 20 percent reduction in VOC emissions. For States that did not supply a baseline VOC content for asphalt paving, we used the 20 percent reduction in VOC emissions from emulsified asphalt paving during the ozone season.

5.2.3 Consumer Products

The OTC 2006 model rule will modify the OTC 2001 model rule based on amendments adopted by CARB in July 2005. The emission reduction benefit estimation methodology is based on information developed by CARB. CARB estimates 6.05 tons per day of VOC reduced from their July 2005 amendments (CARB 2004, pg. 8), excluding the benefits

from the two products (anti-static products and shaving gels) with compliance dates in 2008 or 2009. This equates to about 2,208 tons per year. The population of California as of July 1, 2005 is 36,132,147 (Census 2006). On a per capita basis, the emission reduction from the CARB July 2005 amendments equals 0.122 lbs/capita.

Since the OTC's 2006 control measure is very similar to the CARB July 2005 amendments (with the exclusion of the anti-static products and shaving gel 2008/2009 limits), the per capita emission reductions are expected to be the same in the OTR. The per capita factor after the implementation of the OTC 2001 model rule is 6.06 lbs/capita (Pechan 2001, pg. 8). The percentage reduction from the OTC's 2006 control measure was computed as shown below:

Current OTC Emission Factor	=	6.06 lbs/capita
Benefit from CARB 2005 amendments	=	0.122 lbs/capita
Percent Reduction	=	100%*(1 - (6.06 – 0.122)/6.06)
	=	2.0%

The 2.0% reduction will be applied to all states except Vermont, which indicated that they do not want the modeling inventory to reflect anything beyond the 2002 OTC control level for consumer products in Vermont.

5.2.4 Portable Fuel Containers

The OTC 2006 model rule will modify the OTC 2001 model rule based on amendments adopted by CARB in 2006. Estimated emission reductions were based on information compiled by CARB to support their recent amendments. CARB estimated that PFC emissions in 2015 will be 31.9 tpd in California with no additional controls or amendments to the 2000 PFC rules. CARB further estimates that the 2006 amendment will reduce emission from PFCs by 18.4 tpd in 2015 in California compared to the 2000 PFC regulations. Thus, at full implementation, the expected incremental reduction is approximately 58 percent, after an estimated 75 percent reduction from the original 2000 rule (CARB later adjusted the reduction to 65 percent due to unanticipated problems with spillage from the new cans).

The OTC calculations assume that States will adopt the rule by July 2007 and will provide manufacturers one year from the date of the rule to comply. Thus, new compliant PFCs will not be on the market until July 2008. Assuming a 10-year turnover to compliant cans, only 10 percent of the existing inventory of PFCs will comply with the new requirements in the summer of 2009. Therefore, only 10 percent of the full emission benefit estimated by CARB will occur by 2009 – the incremental reduction will be about 5.8 percent in

2009. In 2012, there will be a 40 percent turnover to compliant cans, resulting in an incremental reductions of about 23.2 percent. By 2018, the will be 100 percent penetration to compliant PFCs, resulting in an incremental reduction of 58 percent in 2018.

The emission reductions from the 2006 OTC PFC model rule were calculated only for the emissions accounted for in the area source inventory. Additional benefits (not estimated for this report) would be expected from equipment refueling vapor displacement and spillage that is accounted for in the nonroad inventory.

5.2.5 Industrial/Commercial/Institutional Boilers

In Resolution 06-02, the OTC Commissioners recommended that OTC member states pursue as necessary and appropriate state-specific rulemakings or other implementation methods to establish emission reduction percentages, emission rates or technologies for ICI boilers based on guidelines that varied by boiler size and fuel type. Specifically, the following guidelines were provided:

	NOx Reduction from 2009 Base Emissions by Fuel Type			
Boiler Size (mmBtu/hour)	**Natural Gas**	**#2 Fuel Oil**	**#4/#6 Fuel Oil**	**Coal**
< 25	10	10	10	10
25 to 50	50	50	50	50*
50 to 100	10	10	10	10*
100 to 250	75	40	40	40*
>250	**	**	**	**

* Resolution 06-02 did not specify a percent reduction for coal; for modeling purposes, the same percent reduction specified for #4/#6 fuel oil was used for coal

** Resolution 06-02 specified the reduction for > 250mmBtu/hour boilers to be the "same as EGUs of similar size." The OTC Commissioners have not yet recommended an emission rate or percent reduction for EGUs. As a result, no reductions for ICI boilers > 250 mmBtu/hour were included in the BOTW inventory.

Since the above guidelines vary by boiler size and fuel type, the specific percent reduction applied to an area source category depends on the SCC and design capacity of the source. The SCC identifies the fuel type (for example, SCC 21-02-004-xxx describes distillate oil-fired industrial boilers, SCC 21-02-006-xxx describes natural gas-fired industrial boilers). The area source inventory does not contain any information on the sizes of the units included in the inventories. To apportion area source emissions to the boiler size ranges listed above, MACTEC used data from the *Characterization of the U.S. Industrial/Commercial Boiler Population* (May 2005, Oak Ridge National Laboratory). We used the national estimates of boiler capacity by size from Table ES-1 of the Oak

Ridge report to calculate the percentage of total boiler capacity in each size range. Since the Oak Ridge report distinguished between industrial boilers and commercial/institutional boilers, we developed separate profiles for industrial boilers and for commercial/institutional boilers. We used these boiler size profiles to calculate weighted average percent reductions industrial boilers by fuel type and commercial/institutional boilers by fuel type.

5.2.6 Residential and Commercial Heating Oil

The BOTW control measure for heating oil is based on NESCAUM's report entitled "Low Sulfur Heating Oil in the Northeast States: An Overview of Benefits, Costs and Implementation Issues." NESCAUM estimates that reducing the sulfur content of heating oil from 2,000 ppm to 500 ppm lowers SO2 emissions by 75 percent, PM emissions by 80 percent, NOx emissions by 10 percent. The 500 ppm sulfur heating oil is not expected to available on a widespread basis until 2012 at the earliest. These percent reductions were applied to residential distillate oil category (SCC 21-04-004-xxx) and commercial distillate oil category (SCC 21-03-004-xxx). These percent reductions were applied based on the state's recommendations in the matrix which identifies control measures to include and in which years the control measure should be accounted for in the modeling inventory.

5.2.7 BOTW Area Source NIF, SMOKE, and Summary Files

The Version 3 file names and descriptions delivered to MARAMA are shown in Table 5-16.

Table E-1 shows the anticipated percent reductions by SCC and year for the nonEGU point source BOTW control measures.

5.2.8 BOTW Area Source Emission Summaries

Emission summaries by state, year, and pollutant are presented in Tables 5-17 through 5-23 for CO, NH3, NOx, PM10-PRI, PM25-PRI, SO2, and VOC, respectively.

Table 5-16 BOTW Area Source NIF, IDA, and Summary File Names

File Name	Date	Description
MANEVU_BOTW2009_Area_NIFV3_2.mdb	Nov. 9, 2006	Version 3.2 of 2009 BOTW area source NIF inventory
MANEVU_BOTW2012_Area_NIFV3_2.mdb	Nov. 9, 2006	Version 3.2 of 2012 BOTW area source NIF inventory
MANEVU_BOTW2018_Area_NIFV3_2.mdb	Nov. 9, 2006	Version 3.2 of 2018 BOTW area source NIF inventory
MANEVU_BOTW2009_Area_IDAV3_2.txt	Nov. 20, 2006	Version 3.2 of 2009 BOTW area source inventory in SMOKE IDA format
MANEVU_BOTW2012_Area_IDAV3_2.txt	Nov. 20, 2006	Version 3.2 of 2012 BOTW area source inventory in SMOKE IDA format
MANEVU_BOTW2018_Area_IDA3V_2.txt	Nov. 20, 2006	Version 3.2 of 2018 BOTW area source inventory in SMOKE IDA format
MANEVU OTB BOTW Area V3_2 State Summary.xls	Nov. 8, 2006	Spreadsheet with state totals by pollutant for all area sources
MANEVU OTB BOTW Area V3_2 State SCC Summary.xls	Nov. 8, 2006	Spreadsheet with SCC totals by state and pollutant for all area sources.

Table 5-17 Area Sources
OTB/OTW and BOTW Annual CO Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	70,198	65,865	65,865	63,874	63,874	59,797	59,797
DE	14,052	15,395	15,395	15,233	15,233	14,864	14,864
DC	2,300	2,417	2,417	2,460	2,460	2,512	2,512
ME	109,223	102,743	102,743	99,877	99,877	94,181	94,181
MD	141,178	143,653	143,653	144,233	144,233	144,649	144,649
MA	137,496	132,797	132,797	130,255	130,255	125,205	125,205
NH	79,647	76,504	76,504	75,319	75,319	73,038	73,038
NJ	97,657	90,432	90,432	88,048	88,048	83,119	83,119
NY	356,254	336,576	336,576	327,118	327,118	307,659	307,659
PA	266,935	266,887	266,887	264,012	264,012	257,396	257,396
RI	8,007	8,007	8,007	8,026	8,026	8,024	8,024
VT	43,849	42,683	42,683	42,172	42,172	41,283	41,283
Total	**1,326,796**	**1,283,959**	**1,283,959**	**1,260,627**	**1,260,627**	**1,211,727**	**1,211,727**

No BOTW controls were considered for CO.

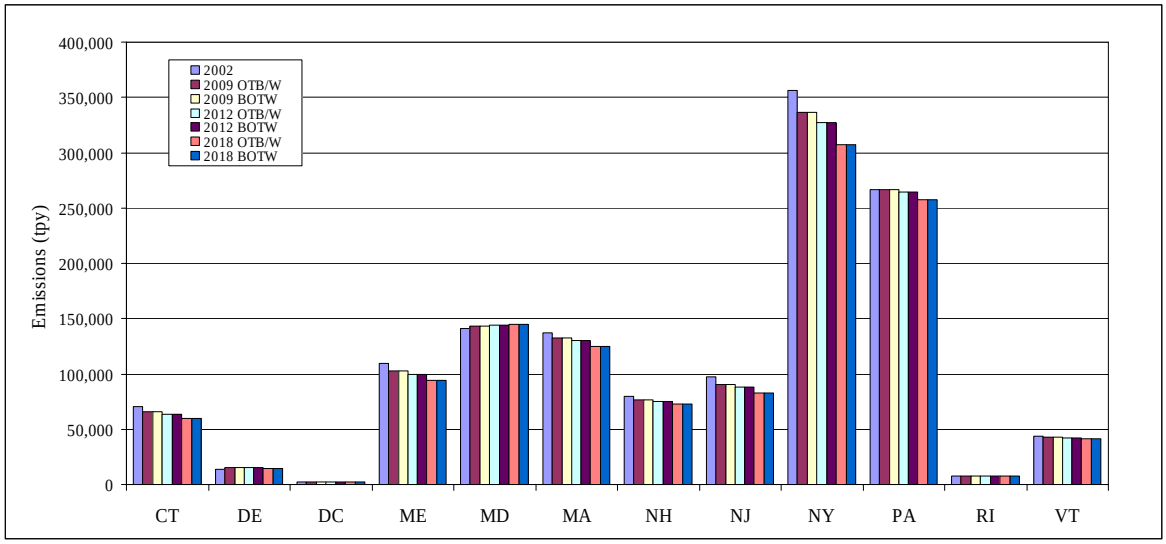


Table 5-18 Area Sources
OTB/OTW and BOTW Annual NH3 Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	5,318	5,208	5,208	5,156	5,156	5,061	5,061
DE	13,279	13,316	13,316	13,328	13,328	13,342	13,342
DC	14	16	16	16	16	17	17
ME	8,747	10,453	10,453	11,116	11,116	12,312	12,312
MD	25,834	31,879	31,879	34,222	34,222	38,155	38,155
MA	18,809	19,131	19,131	19,275	19,275	19,552	19,552
NH	2,158	2,466	2,466	2,584	2,584	2,789	2,789
NJ	17,572	19,457	19,457	20,154	20,154	21,435	21,435
NY	67,422	81,626	81,626	87,116	87,116	96,078	96,078
PA	79,911	98,281	98,281	105,418	105,418	117,400	117,400
RI	883	945	945	972	972	1,025	1,025
VT	9,848	12,156	12,156	13,062	13,062	14,580	14,580
Total	**249,795**	**294,934**	**294,934**	**312,419**	**312,419**	**341,746**	**341,746**

No BOTW controls were considered for NH3.

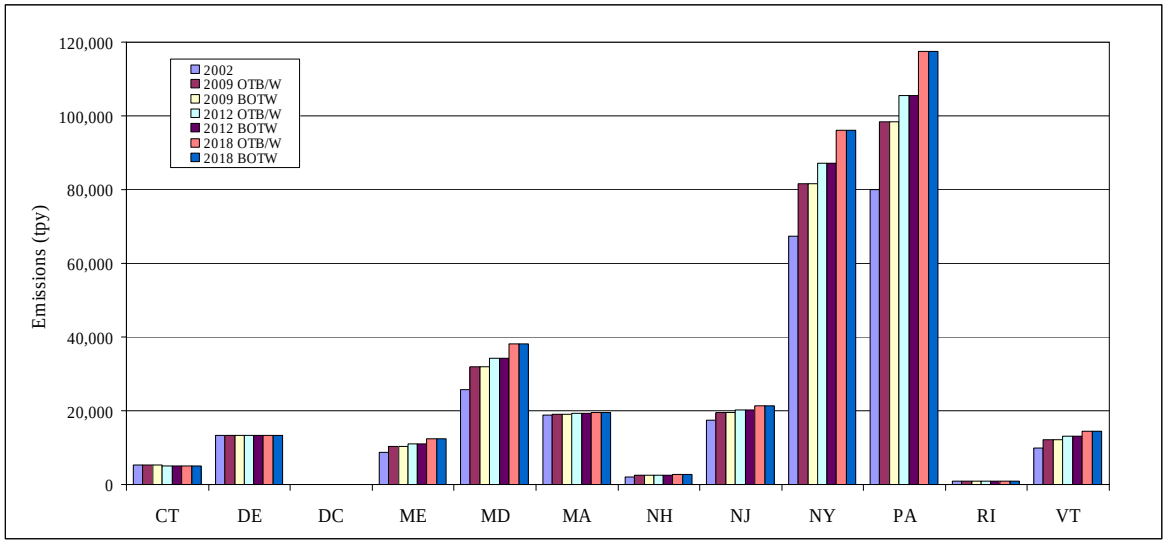


Table 5-19 Area Sources
OTB/OTW and BOTW Annual NOx Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	12,689	13,173	12,245	13,342	12,389	13,388	11,795
DE	2,608	2,821	2,821	2,913	2,913	3,014	3,014
DC	1,644	1,961	1,961	2,081	2,052	2,259	2,229
ME	7,360	7,477	7,477	7,486	7,095	7,424	7,036
MD	15,678	16,858	16,858	17,315	17,007	18,073	17,746
MA	34,281	35,732	35,732	36,331	35,321	37,187	36,199
NH	10,960	11,879	11,879	12,055	12,055	12,430	12,180
NJ	26,692	24,032	24,032	23,981	21,976	23,660	21,684
NY	98,803	106,375	95,190	107,673	92,935	108,444	93,639
PA	47,591	50,162	50,162	50,793	49,773	50,829	49,829
RI	3,886	4,149	4,149	4,260	4,112	4,397	4,249
VT	3,208	3,419	3,419	3,429	3,429	3,430	3,430
Total	**265,400**	**278,038**	**265,925**	**281,659**	**261,057**	**284,535**	**263,030**

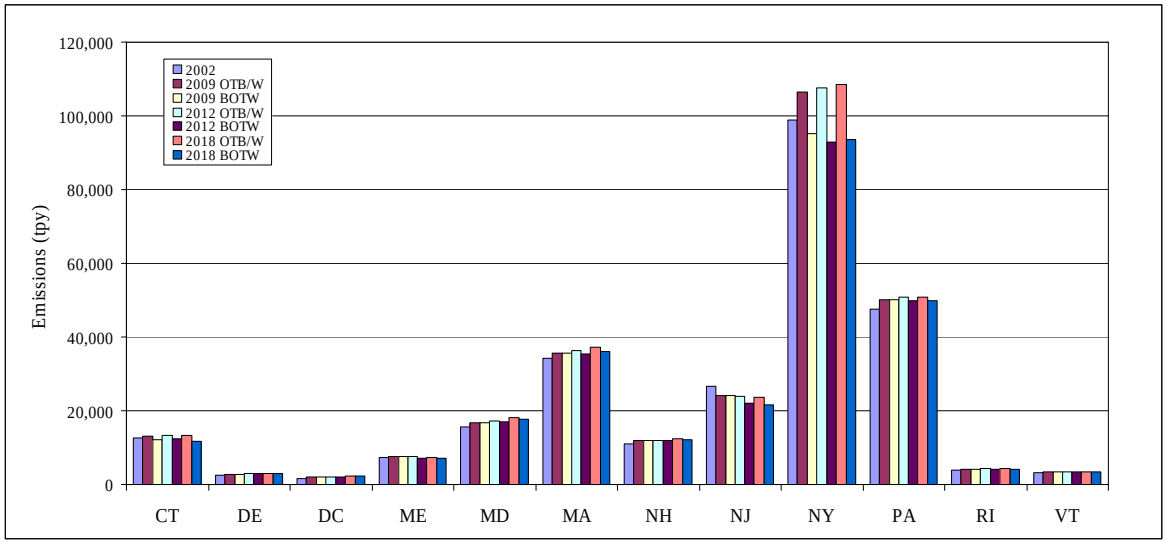


Table 5-20 Area Sources
OTB/OTW and BOTW Annual PM10-PRI Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	48,281	48,970	48,970	49,004	49,004	49,479	48,734
DE	13,039	13,928	13,928	14,236	14,236	14,844	14,844
DC	3,269	3,511	3,511	3,605	3,547	3,825	3,762
ME	168,953	175,979	175,979	179,689	179,004	189,619	188,928
MD	95,060	105,944	105,944	110,141	109,829	117,396	117,066
MA	192,860	198,668	198,668	200,692	200,215	204,922	204,456
NH	43,328	46,060	46,060	47,187	47,187	49,801	49,544
NJ	61,601	61,684	61,684	61,284	60,916	60,880	60,519
NY	369,595	382,124	382,124	385,925	383,234	392,027	389,385
PA	391,897	421,235	421,235	432,844	431,787	454,970	453,934
RI	8,295	8,962	8,962	9,244	8,976	9,797	9,514
VT	56,131	60,521	60,521	62,465	62,465	66,916	66,916
Total	**1,452,309**	**1,527,586**	**1,527,586**	**1,556,316**	**1,550,400**	**1,614,476**	**1,607,602**

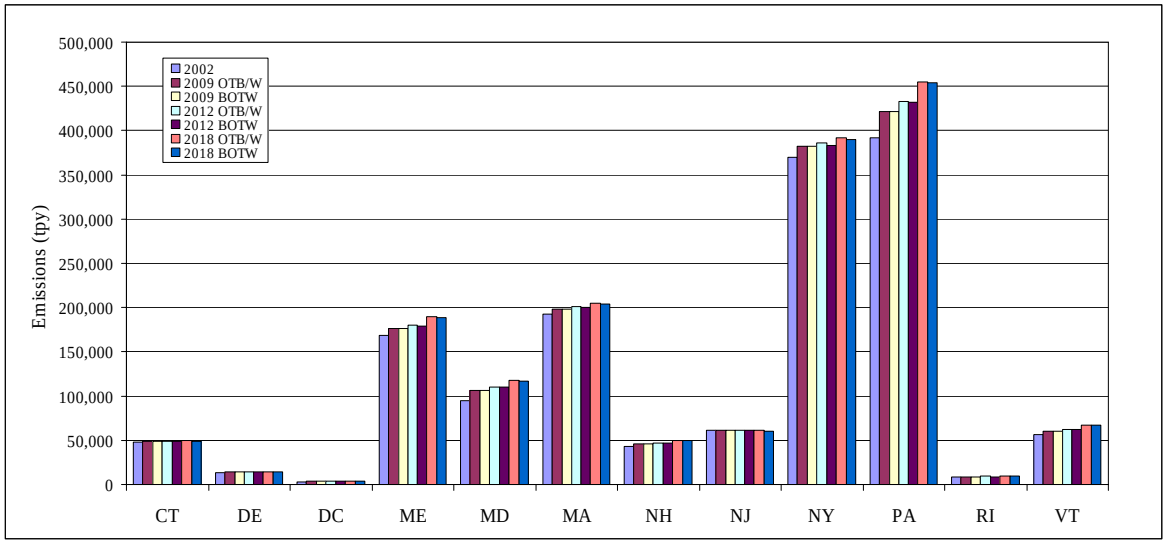


Table 5-21 Area Sources
OTB/OTW and BOTW Annual PM25-PRI Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	14,247	13,766	13,766	13,517	13,517	13,033	12,366
DE	3,204	3,387	3,387	3,403	3,403	3,426	3,426
DC	805	860	860	879	827	917	860
ME	32,774	33,026	33,026	33,189	32,576	33,820	33,201
MD	27,318	28,923	28,923	29,508	29,228	30,449	30,153
MA	42,083	43,121	43,121	43,186	42,820	43,438	43,080
NH	17,532	17,965	17,965	18,050	18,050	18,316	18,087
NJ	19,350	18,590	18,590	18,271	17,924	17,653	17,313
NY	87,154	87,576	87,576	87,260	85,011	86,422	84,211
PA	74,925	79,169	79,169	80,728	79,775	83,570	82,637
RI	2,064	2,184	2,184	2,232	1,996	2,316	2,068
VT	11,065	11,482	11,482	11,652	11,652	12,059	12,059
Total	**332,521**	**340,049**	**340,049**	**341,875**	**336,779**	**345,419**	**339,461**

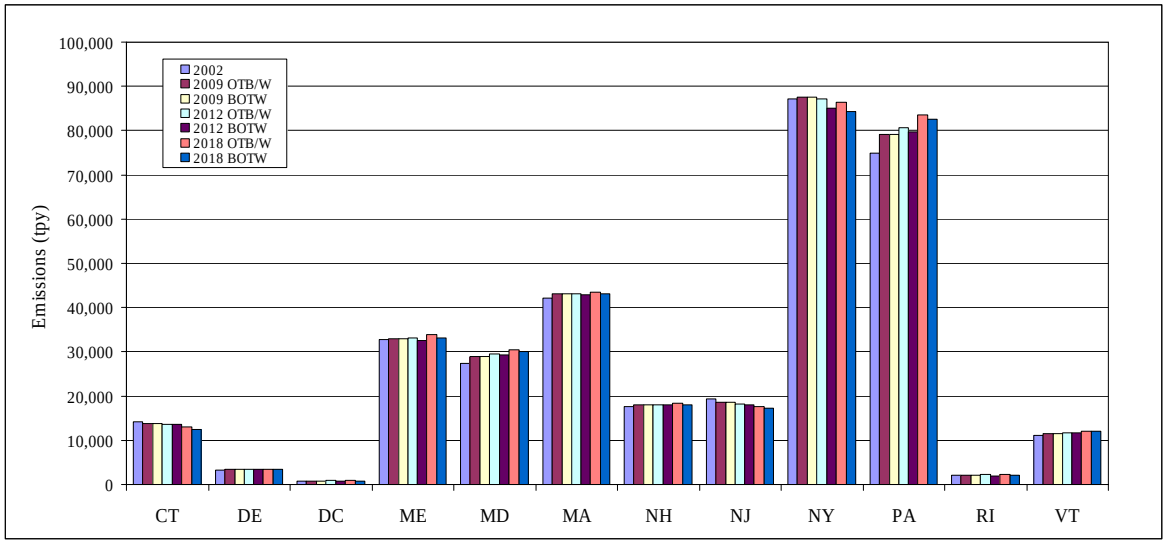


Table 5-22 Area Sources
OTB/OTW and BOTW Annual SO2 Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	12,418	12,581	12,581	12,604	12,604	12,184	3,398
DE	1,588	1,599	1,599	1,602	1,602	1,545	1,545
DC	1,337	1,487	1,487	1,541	499	1,632	522
ME	13,149	13,776	13,776	13,846	4,897	13,901	4,940
MD	12,393	13,685	13,685	14,074	8,762	14,741	9,118
MA	25,488	25,961	25,961	26,029	8,414	25,570	8,357
NH	7,072	7,463	7,463	7,470	7,470	7,421	3,118
NJ	10,744	10,672	10,672	10,697	4,435	10,510	4,374
NY	130,409	139,589	139,589	140,154	98,160	141,408	100,452
PA	63,679	67,535	67,535	67,446	49,212	66,363	48,475
RI	4,557	5,024	5,024	5,189	1,316	5,398	1,368
VT	4,087	4,646	4,646	4,687	4,687	4,764	4,764
Total	**286,921**	**304,018**	**304,018**	**305,339**	**202,058**	**305,437**	**190,431**

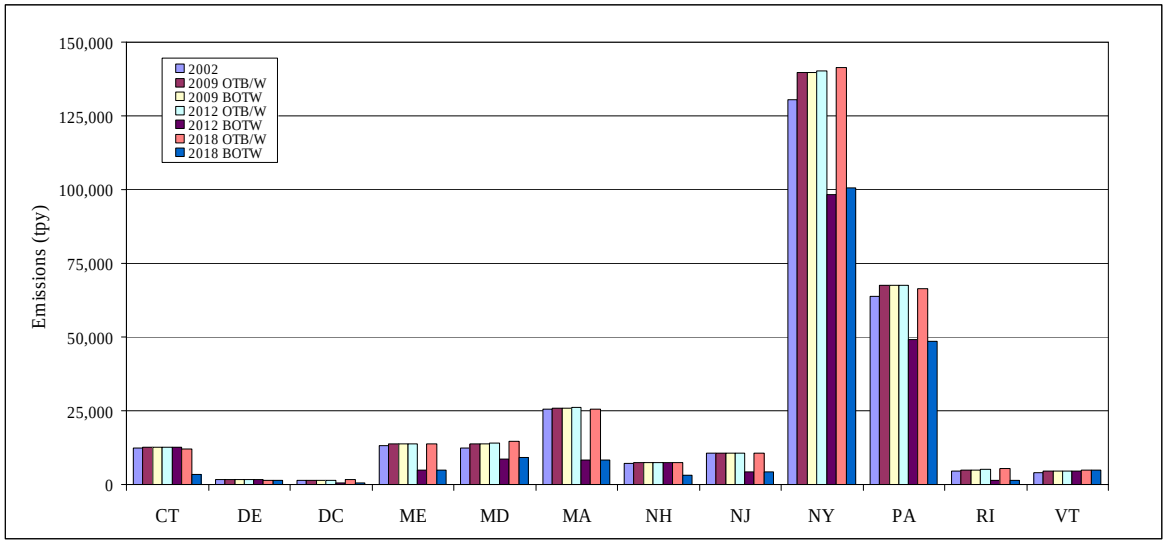
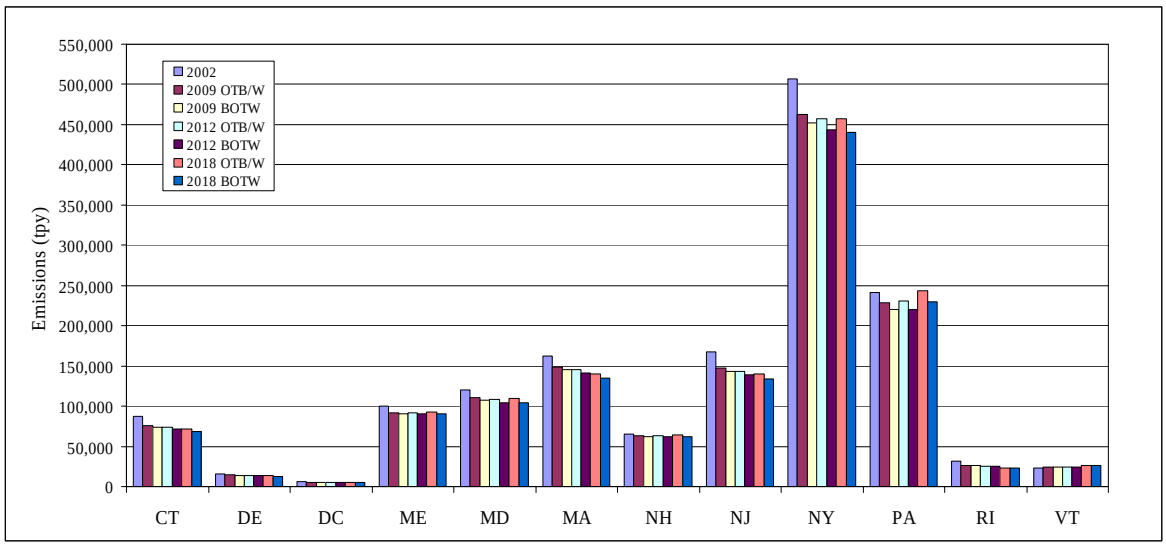


Table 5-23 Area Sources
OTB/OTW and BOTW Annual VOC Emission Projections
(tons per year)

	2002	2009 OTB/W	2009 BOTW	2012 OTB/W	2012 BOTW	2018 OTB/W	2018 BOTW
CT	87,302	75,693	73,738	73,560	71,249	71,274	68,395
DE	15,519	14,245	13,794	13,943	13,408	13,744	13,066
DC	6,432	5,420	5,300	5,352	5,144	5,255	4,991
ME	100,621	91,910	90,869	91,667	90,457	92,410	90,866
MD	120,254	110,385	107,527	108,067	104,400	110,046	104,615
MA	162,145	148,625	145,059	145,674	140,848	140,558	134,963
NH	65,370	63,069	61,860	63,356	61,913	64,368	62,649
NJ	167,882	147,617	143,089	143,752	138,646	139,626	134,089
NY	507,292	462,811	451,669	456,856	443,940	457,421	440,892
PA	240,785	228,444	219,733	230,393	219,897	243,421	230,011
RI	31,402	26,695	26,572	25,548	25,315	23,561	23,305
VT	23,265	24,068	24,068	24,635	24,634	26,198	26,197
Total	**1,528,269**	**1,398,982**	**1,363,278**	**1,382,803**	**1,339,851**	**1,387,882**	**1,334,039**



5.3 Nonroad Mobile Sources

In the June 2007 MOU, the OTC Commissioners recommended that states pursue state-specific rulemakings for one nonroad source categories – portable fuel containers. The OTC 2006 control measure for portable fuel containers will result in addition VOC emission reduction from the refueling of nonroad equipment. However, these reductions could not be estimated due to resource and time constraints.

5.4 Electric Generating Units

In the June 2008 Statement on EGUs, the OTC Commissioners directed OTC staff to complete an evaluation and recommendations for a program beyond CAIR that includes strategies to address the base, intermediate and peak load emissions. No specific emission reduction targets were identified. States specified that no additional reductions from EGUs be included in the BOTW inventory.

5.5 Onroad Mobile Sources

In Resolution 06-02, the OTC Commissioners recommended that the OTC member states pursue a region fuel program consistent with the Energy Act of 2005. No specific emission reduction targets were identified. States specified that no additional reductions from onroad mobile sources be included in the BOTW inventory.

In the June 2007 MOU, the OTC Commissioners recommended that states pursue state-specific rulemakings to implement a mandatory diesel engine chip reflash program. It is our understanding that the emission reductions from the diesel engine chip reflash program are already accounted for in MANE-VU's OTB emission inventory.

Appendix A – NonEGU Point Source Growth Factors

Table A-1 Connecticut Growth Factors by SIC Code

SIC	GF_02_09	GF_02_12	GF_02_18	CTDOL_CAT
0181	1.0019	1.0027	1.0042	Agricultural, Crop Production
1422	0.9400	0.9143	0.8629	Mining
1429	0.9400	0.9143	0.8629	Mining
2051	0.9355	0.9079	0.8526	Manufacturing, Food
2096	0.9355	0.9079	0.8526	Manufacturing, Food
2261	0.9254	0.8934	0.8295	Manufacturing, Textile Product Mills
2262	0.9254	0.8934	0.8295	Manufacturing, Textile Product Mills
2284	0.9254	0.8934	0.8295	Manufacturing, Textile Product Mills
2298	0.9254	0.8934	0.8295	Manufacturing, Textile Product Mills
2434	1.0679	1.0969	1.1551	Manufacturing, Wood Products
2522	1.0435	1.0621	1.0994	Manufacturing, Furniture & Related
2541	1.0679	1.0969	1.1551	Manufacturing, Wood Products
2621	0.8706	0.8152	0.7043	Manufacturing, Paper
2631	0.8706	0.8152	0.7043	Manufacturing, Paper
2652	0.8706	0.8152	0.7043	Manufacturing, Paper
2653	0.8706	0.8152	0.7043	Manufacturing, Paper
2672	0.8706	0.8152	0.7043	Manufacturing, Paper
2673	0.8706	0.8152	0.7043	Manufacturing, Paper
2711	0.8386	0.7695	0.6312	Manufacturing, Printing & Related Activ
2752	0.8386	0.7695	0.6312	Manufacturing, Printing & Related Activ
2754	0.8386	0.7695	0.6312	Manufacturing, Printing & Related Activ
2759	0.8386	0.7695	0.6312	Manufacturing, Printing & Related Activ
2821	1.1024	1.1464	1.2342	Manufacturing, Chemical
2833	1.1024	1.1464	1.2342	Manufacturing, Chemical
2869	1.1024	1.1464	1.2342	Manufacturing, Chemical
2875	1.1024	1.1464	1.2342	Manufacturing, Chemical
3052	0.9591	0.9416	0.9066	Manufacturing, Plastic & Rubber Product
3069	0.9591	0.9416	0.9066	Manufacturing, Plastic & Rubber Product
3081	0.9591	0.9416	0.9066	Manufacturing, Plastic & Rubber Product
3086	0.9591	0.9416	0.9066	Manufacturing, Plastic & Rubber Product
3087	0.9591	0.9416	0.9066	Manufacturing, Plastic & Rubber Product
3272	0.9841	0.9772	0.9636	Manufacturing, Miscellaneous
3312	0.8713	0.8162	0.7059	Manufacturing, Primary Metal
3351	0.8713	0.8162	0.7059	Manufacturing, Primary Metal
3357	0.8713	0.8162	0.7059	Manufacturing, Primary Metal
3423	0.9150	0.8786	0.8057	Manufacturing, Fabricated Metal
3429	0.9150	0.8786	0.8057	Manufacturing, Fabricated Metal
3444	0.9150	0.8786	0.8057	Manufacturing, Fabricated Metal
3469	0.9150	0.8786	0.8057	Manufacturing, Fabricated Metal
3471	0.9150	0.8786	0.8057	Manufacturing, Fabricated Metal
3479	0.9150	0.8786	0.8057	Manufacturing, Fabricated Metal
3497	0.9150	0.8786	0.8057	Manufacturing, Fabricated Metal
3562	0.8778	0.8254	0.7206	Manufacturing, Machinery

SIC	GF_02_09	GF_02_12	GF_02_18	CTDOL_CAT
3569	0.8778	0.8254	0.7206	Manufacturing, Machinery
3579	0.8452	0.7788	0.6461	Manufacturing, Computer & Electronic Eq
3634	0.9149	0.8784	0.8054	Manufacturing, Electrical Equipment, Ap
3675	0.9149	0.8784	0.8054	Manufacturing, Electrical Equipment, Ap
3714	0.9705	0.9578	0.9326	Manufacturing, Transportation Equipment
3721	0.9705	0.9578	0.9326	Manufacturing, Transportation Equipment
3724	0.9705	0.9578	0.9326	Manufacturing, Transportation Equipment
3728	0.9705	0.9578	0.9326	Manufacturing, Transportation Equipment
3731	0.9705	0.9578	0.9326	Manufacturing, Transportation Equipment
3827	0.9841	0.9772	0.9636	Manufacturing, Miscellaneous
3949	0.9841	0.9772	0.9636	Manufacturing, Miscellaneous
3951	0.9841	0.9772	0.9636	Manufacturing, Miscellaneous
4226	1.0921	1.1316	1.2106	Transportation & Warehousing, Warehousi
4911	0.9550	0.9358	0.8972	Utilities
4922	0.9550	0.9358	0.8972	Utilities
4924	0.9550	0.9358	0.8972	Utilities
4931	1.1439	1.2056	1.3290	Waste Management & Remediation Services
4952	1.1439	1.2056	1.3290	Waste Management & Remediation Services
4953	1.1439	1.2056	1.3290	Waste Management & Remediation Services
4961	0.9550	0.9358	0.8972	Utilities
5171	1.0605	1.0864	1.1382	Wholesale Trade, Nondurable Goods
6036	1.0569	1.0814	1.1302	Finance & Insurance
6512	1.0197	1.0282	1.0451	Real Estate & Rental & Leasing
6513	1.0197	1.0282	1.0451	Real Estate & Rental & Leasing
7389	1.0569	1.0814	1.1302	Finance & Insurance
8051	1.0824	1.1177	1.1883	Health Care & Social Assistance, Nursin
8062	1.0583	1.0833	1.1334	Health Care & Social Assistance, Hospit
8063	1.0583	1.0833	1.1334	Health Care & Social Assistance, Hospit
8211	1.0642	1.0918	1.1468	Educational Services
8221	1.0642	1.0918	1.1468	Educational Services
8631	1.0642	1.0918	1.1468	Educational Services
8734	1.1189	1.1699	1.2718	Professional, Scientific, and Technical
9223	1.0185	1.0264	1.0423	Government
9511	1.0185	1.0264	1.0423	Government
9621	1.0185	1.0264	1.0423	Government
9711	1.0185	1.0264	1.0423	Government
3900	0.9841	0.9772	0.9636	Manufacturing, Miscellaneous
5093	1.0527	1.0754	1.1206	Wholesale Trade, Durable Goods
4200	0.9871	0.9815	0.9705	Transportation & Warehousing, Truck Tra

Table A-2 Non-EGU Point Source Growth Factors by SCC Code

See Electronic File: MANE-VU_NonEGU_gf_scc.xls

This table contains 12,791 records with NonEGU point source growth factors by county and SCC. The format for the tables is as follows:

Column A – County FIPS code

Column B – Source Classification Code (SCC)

Column C – EGAS_02_09 this is the EGAS 5.0 factor for projecting from 2002 to 2009

Column D – AEO5_02_09 this is the DOE AEO 2005 factor for projecting from 2002 to 2009

Column E – ST_02_09 this is the state-supplied factor for projecting from 2002 to 2009

Column F – GF_02_09 this is the final factor actually used for projecting from 2002 to 2009 (it is the state-supplied factor, if available; if no state-supplied factor, then it is the AEO2005 factor; if no AEO2005 factor, then it is the default EGAS 5.0 factor)

Column G – EGAS_02_12 this is the EGAS 5.0 factor for projecting from 2002 to 2012

Column H – AEO5_02_12 this is the DOE AEO 2005 factor for projecting from 2002 to 2012

Column I – ST_02_12 this is the state-supplied factor for projecting from 2002 to 2012

Column J – GF_02_09 this is the final factor actually used for projecting from 2002 to 2012 (it is the state-supplied factor, if available; if no state-supplied factor, then it is the AEO2005 factor; if no AEO2005 factor, then it is the default EGAS 5.0 factor)

Column K – EGAS_02_18 this is the EGAS 5.0 factor for projecting from 2002 to 2018

Column J – AEO5_02_18 this is the DOE AEO 2005 factor for projecting from 2002 to 2018

Column M– ST_02_18 this is the state-supplied factor for projecting from 2002 to 2018

Column N – GF_02_09 this is the final factor actually used for projecting from 2002 to 2012 (it is the state-supplied factor, if available; if no state-supplied factor, then it is the AEO2005 factor; if no AEO2005 factor, then it is the default EGAS 5.0 factor)

Column O – SCC description

Appendix B – NonEGU Point Source Control Factors

Table B-1 NonEGU Emission Units Affected by the NOx SIP Call Phase I

FIPS	SITE ID	Facility Name	EU ID	Ozone Season Allowance (tpy)	Prorated Annual Emissions (tpy)	Unit Description
09003	1509	PRATT & WHITNEY DIV UTC	P0049	11	26	FT-8 COGENERATION GAS TURBINE
09011	0604	PFIZER INC	P0001	33	79	BLR B&W FM140-97 #8
09011	0604	PFIZER INC	R0012	31	74	BLR CE #5 (101-4)
09011	3102	SPRAGUE PAPERBOARD INC	R0003	75	180	BLR B&W PFI-22-0 #1
24001	001-0011	WESTVACO FINE PAPERS	1	500	1200	001-0011-3-0018
24001	001-0011	WESTVACO FINE PAPERS	2	440	1056	001-0011-3-0019
25009	1190138	GENERAL ELECTRIC AIRCRAFT	03	29	68	BOILER #3-BABCOCK+WILCOX PPL-2897 DUAL FUEL EV99-3
25009	1190138	GENERAL ELECTRIC AIRCRAFT	05	24	58	TURBINE #1-GE G5301 DUAL FUEL BLDG 99-8
25017	1191844	MIT	02	132	317	TURBINE #1-ABB GT10 DUEL FUEL(EXHAUST TO HRSG)
25025	1190507	TRIGEN BOSTON ENERGY	01	47	113	BOILER #1-BABCOCK+WILCOX HSB8477A DUAL FUEL
25025	1190507	TRIGEN BOSTON ENERGY	02	47	113	BOILER #2-BABCOCK+WILCOX JSB8477B DUAL FUEL
25025	1190507	TRIGEN BOSTON ENERGY	03	47	113	BOILER #3-FOSTER+WHEELER SC DUAL FUEL
25025	1190507	TRIGEN BOSTON ENERGY	04	47	113	BOILER #4-BABCOCK+WILCOX HSB8608A DUAL FUEL
36031	5154800008	INTERNATIONAL PAPER TICONDEROG	POWERH	227	545	EMISSION UNIT
36055	8261400205	KODAK PARK DIVISION	U00015	1721	4130	EMISSION UNIT
36091	5412600007	INTERNATIONAL PAPER HUDSON RIV	UBOILR	124	298	EMISSION UNIT
42003	4200300022	SHENANGO INC.	005	13	31	BOILER #9, NATURAL GAS
42017	420170306	EXELON GENERATION CO/FAIRLESS	043	2	5	POWER HOUSE BOILER NO. 3

FIPS	SITE ID	Facility Name	EU ID	Ozone Season Allowance (tpy)	Prorated Annual Emissions (tpy)	Unit Description
42017	420170306	EXELON GENERATION CO/FAIRLESS	044	73	175	POWER HOUSE BOILER NO. 4
42017	420170306	EXELON GENERATION CO/FAIRLESS	045	61	146	POWER HOUSE BOILER NO. 5
42045	420450016	KIMBERLY CLARK PA LLC/CHESTER	034	2	5	
42045	420450220	FPL ENERGY MH50 LP/MARCUS HOOK	031	82	197	COGENERATION UNIT - ABB TYPE B
42047	420470005	WEYERHAEUSER/JOHNSONBURG MILL	040	85	204	BOILER #81
42047	420470005	WEYERHAEUSER/JOHNSONBURG MILL	041	86	206	BOILER #82
42091	420910028	MERCK & CO/WEST POINT	039	101	242	COGEN II GAS TURBINE
42101	4210101551	SUNOCO CHEMICALS (FORMER ALLIE	052	86	206	BL-703: BOILER #3
42131	421310009	PROCTER & GAMBLE PAPER PROD CO	035	203	482	WESTINGHOUSE 251B12
42133	421330016	PH GLATFELTER CO/SPRING GROVE	034	146	350	#4 POWER BOILER

Table B-2 Cement Kilns Affected by the NOx SIP Call Phase I

FIPS	SITE ID	Facility Name	EU ID	Control Factor	Unit Description
24013	013-0012	LEHIGH PORTLAND CEMENT	39	25.00	013-0012-6-0256 013-0012-6-0256
24021	021-0013	ESSROC CEMENT	21	25.00	021-0013-6-0465 021-0013-6-0465
24021	021-0013	ESSROC CEMENT	22	25.00	021-0013-6-0466 021-0013-6-0466
24043	043-0008	INDEPENDENT CEMENT/ST. LAWEREN	24	25.00	043-0008-6-0495 043-0008-6-0495
36001	4012400001	LAFARGE BUILDING MATERIALS INC	041000	25.00	EMISSION UNIT
36039	4192600021	ST LAWRENCE CEMENT CORP-CATSKI	U00K18	25.00	EMISSION UNIT
36113	5520500013	GLENS FALLS LEHIGH CEMENT	0UKILN	25.00	EMISSION UNIT
42011	420110039	LEHIGH CEMENT CO /EVANSVILLE	121	70.00	PORTLAND CEMENT KILN #1
42011	420110039	LEHIGH CEMENT CO /EVANSVILLE	122	70.00	PORTLAND CEMENT KILN #2
42019	420190024	ARMSTRONG CEMENT & SUPPLY	101	16.00	NO.1 KILN
42019	420190024	ARMSTRONG CEMENT & SUPPLY	121	16.00	NO.2 KILN
42073	420730024	CEMEX INC/WAMPUM CEMENT PLT	226	12.50	
42073	420730024	CEMEX INC/WAMPUM CEMENT PLT	227	0.00	
42073	420730024	CEMEX INC/WAMPUM CEMENT PLT	228	12.70	
42073	420730026	ESSROC/BESSEMER	501	8.00	
42073	420730026	ESSROC/BESSEMER	502	8.00	
42077	420770019	LAFARGE CORP/WHITEHALL PLT	101	12.28	K-2 KILN
42077	420770019	LAFARGE CORP/WHITEHALL PLT	114	100.00	K-3 KILN
42095	420950006	HERCULES CEMENT CO LP/STOCKERT	102	6.88	NO. 1 CEMENT KILN
42095	420950006	HERCULES CEMENT CO LP/STOCKERT	122	6.88	NO. 3 CEMENT KILN
42095	420950012	KEYSTONE PORTLAND CEMENT/EAST	101	27.00	CEMENT KILN NO. 1
42095	420950012	KEYSTONE PORTLAND CEMENT/EAST	102	27.00	CEMENT KILN NO. 2
42095	420950045	ESSROC/NAZARETH LOWER CEMENT	142	41.00	
42095	420950045	ESSROC/NAZARETH LOWER CEMENT	143	41.00	
42095	420950127	ESSROC/NAZARETH CEMENT PLT 3	101	41.00	
42095	420950127	ESSROC/NAZARETH CEMENT PLT 3	102	41.00	
42095	420950127	ESSROC/NAZARETH CEMENT PLT 3	103	41.00	
42095	420950127	ESSROC/NAZARETH CEMENT PLT 3	104	41.00	
42133	421330060	LEHIGH CEMENT CO/YORK OPERATION	200	27.00	

Table B-3 Large IC Engines Affected by the NOx SIP Call Phase II

FIPS	SITE ID	Facility Name	EU ID	Control Factor	Unit Description
24027	027-0223	TRANSCONTINENTAL GAS PIPE LINE	1	80.00	027-0223-5-0054 boiler
42005	420050015	DOMINION TRANS INC/SOUTH BEND	101	80.00	ENGINE #1 (2000 BHP)
42005	420050015	DOMINION TRANS INC/SOUTH BEND	102	80.00	ENGINE #2 (2000 BHP)
42005	420050015	DOMINION TRANS INC/SOUTH BEND	103	80.00	ENGINE #3 (2000 BHP)
42005	420050015	DOMINION TRANS INC/SOUTH BEND	104	80.00	ENGINE #4 (2000 BHP)
42005	420050015	DOMINION TRANS INC/SOUTH BEND	105	80.00	ENGINE #5 (2000 BHP)
42005	420050015	DOMINION TRANS INC/SOUTH BEND	106	80.00	ENGINE #6 (2000 BHP)
42029	420290047	TRANSCONTINENTAL GAS/FRAZER ST	741	80.00	#11 I-C GAS COMPRESSOR ENGINE
42029	420290047	TRANSCONTINENTAL GAS/FRAZER ST	742	80.00	#12 I-C GAS COMPRESSOR ENGINE
42029	420290047	TRANSCONTINENTAL GAS/FRAZER ST	743	80.00	#13 I-C GAS COMPRESSOR ENGINE
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	101	90.00	COOPER-BESSEMER ENGINE #1
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	101	90.00	COOPER-BESSEMER ENGINE #1
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	101	90.00	COOPER-BESSEMER ENGINE #1
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	101	90.00	COOPER-BESSEMER ENGINE #1
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	102	90.00	COOPER-BESSEMER ENGINE #2
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	102	90.00	COOPER-BESSEMER ENGINE #2
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	102	90.00	COOPER-BESSEMER ENGINE #2
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	102	90.00	COOPER-BESSEMER ENGINE #2
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	103	90.00	COOPER-BESSEMER ENGINE #3
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	103	90.00	COOPER-BESSEMER ENGINE #3
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	103	90.00	COOPER-BESSEMER ENGINE #3
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	103	90.00	COOPER-BESSEMER ENGINE #3
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	104	90.00	COOPER-BESSEMER ENGINE #4
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	104	90.00	COOPER-BESSEMER ENGINE #4
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	104	90.00	COOPER-BESSEMER ENGINE #4
42063	420630018	PA STATE SYS OF HIGHER ED/INDI	104	90.00	COOPER-BESSEMER ENGINE #4
42105	421050005	TENNESSEE GAS PIPELINE CO/313	P111	80.00	3,000HP KVT-512 ENGINE
42105	421050005	TENNESSEE GAS PIPELINE CO/313	P112	80.00	2,000HP GMVH-10C ENGINE
42133	421330053	TRANSCONTINENTAL GAS/STATION 1	036	80.00	COOPER-BESSEMER ENGINE #4
42133	421330053	TRANSCONTINENTAL GAS/STATION 1	037	80.00	COOPER-BESSEMER ENGINE #5

B-4 NonEGU Control Factors for Post-2002 MACT Categories

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
20100102	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20100202	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20100702	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20100802	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20100902	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200102	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200104	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200202	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200204	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200301	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200501	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200702	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200706	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20200902	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20201001	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20201002	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20201012	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20201014	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20201602	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20201702	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20300101	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
20300301	NOX	17.000	ZZZZ	Reciprocating Internal Combustion Engines
30400101	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400102	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400103	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400104	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400105	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400106	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400107	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400108	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400109	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400110	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400111	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400112	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400113	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400114	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400115	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400116	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400117	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400118	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400120	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400121	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400130	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400131	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400132	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400133	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400150	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400160	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30400199	PM10-PRI	90.000	RRR	Secondary Aluminum Production
30500301	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30500302	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500303	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500304	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500305	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500306	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500307	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500308	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500309	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500310	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500311	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500312	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500313	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500314	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500315	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500316	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500317	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500318	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500319	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500321	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500322	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500330	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500331	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500332	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500333	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500334	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500335	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500340	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500342	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500350	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500351	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500355	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500360	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500361	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500370	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500397	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500398	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30500399	PM10-PRI	45.100	JJJJJ	Brick and Structural Clay
30501601	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501602	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501603	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501604	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501605	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501606	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501607	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501608	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501609	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501610	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501611	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501612	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501613	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501614	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501615	PM10-PRI	28.000	AAAAA	Lime Manufacturing

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30501616	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501617	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501618	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501619	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501620	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501621	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501622	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501623	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501624	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501625	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501626	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501627	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501628	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501629	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501630	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501631	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501632	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501633	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501640	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501650	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501660	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30501699	PM10-PRI	28.000	AAAAA	Lime Manufacturing
30400101	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400102	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400103	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400104	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400105	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400106	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400107	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400108	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400109	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400110	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400111	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400112	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400113	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400114	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400115	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400116	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400117	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400118	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400120	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400121	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400130	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400131	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400132	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400133	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400150	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400160	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30400199	PM25-PRI	90.000	RRR	Secondary Aluminum Production
30500301	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500302	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500303	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30500304	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500305	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500306	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500307	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500308	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500309	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500310	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500311	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500312	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500313	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500314	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500315	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500316	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500317	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500318	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500319	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500321	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500322	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500330	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500331	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500332	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500333	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500334	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500335	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500340	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500342	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500350	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500351	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500355	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500360	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500361	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500370	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500397	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500398	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30500399	PM25-PRI	45.100	JJJJJ	Brick and Structural Clay
30501601	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501602	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501603	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501604	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501605	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501606	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501607	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501608	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501609	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501610	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501611	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501612	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501613	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501614	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501615	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501616	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501617	PM25-PRI	28.000	AAAAA	Lime Manufacturing

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30501618	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501619	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501620	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501621	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501622	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501623	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501624	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501625	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501626	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501627	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501628	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501629	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501630	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501631	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501632	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501633	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501640	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501650	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501660	PM25-PRI	28.000	AAAAA	Lime Manufacturing
30501699	PM25-PRI	28.000	AAAAA	Lime Manufacturing
20100101	VOC	0.250	YYYY	Stationary Combustion Turbines
20100102	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20100201	VOC	0.250	YYYY	Stationary Combustion Turbines
20100202	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20100702	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20100802	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20100902	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200101	VOC	0.250	YYYY	Stationary Combustion Turbines
20200102	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200103	VOC	0.250	YYYY	Stationary Combustion Turbines
20200104	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200201	VOC	0.250	YYYY	Stationary Combustion Turbines
20200202	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200203	VOC	0.250	YYYY	Stationary Combustion Turbines
20200204	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200209	VOC	0.250	YYYY	Stationary Combustion Turbines
20200301	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200501	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200702	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200706	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20200902	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20201001	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20201002	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20201012	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20201014	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20201602	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20201702	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20300101	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20300102	VOC	0.250	YYYY	Stationary Combustion Turbines
20300109	VOC	0.250	YYYY	Stationary Combustion Turbines
20300202	VOC	0.250	YYYY	Stationary Combustion Turbines
20300203	VOC	0.250	YYYY	Stationary Combustion Turbines

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
20300209	VOC	0.250	YYYY	Stationary Combustion Turbines
20300301	VOC	40.000	ZZZZ	Reciprocating Internal Combustion Engines
20300701	VOC	0.250	YYYY	Stationary Combustion Turbines
30100501	VOC	26.100	YY	Generic MACT (Carbon Black)
30100502	VOC	26.100	YY	Generic MACT (Carbon Black)
30100503	VOC	26.100	YY	Generic MACT (Carbon Black)
30100504	VOC	26.100	YY	Generic MACT (Carbon Black)
30100506	VOC	26.100	YY	Generic MACT (Carbon Black)
30100507	VOC	26.100	YY	Generic MACT (Carbon Black)
30100508	VOC	26.100	YY	Generic MACT (Carbon Black)
30100509	VOC	26.100	YY	Generic MACT (Carbon Black)
30100510	VOC	26.100	YY	Generic MACT (Carbon Black)
30100599	VOC	26.100	YY	Generic MACT (Carbon Black)
30101005	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101012	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101013	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101014	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101015	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101021	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101022	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101023	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101026	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101027	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101028	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101033	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101034	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101035	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101036	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101037	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101040	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101045	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101046	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101047	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101050	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101051	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101052	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101053	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101054	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101055	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101061	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101062	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101063	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101064	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101073	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101074	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101075	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101076	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101077	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30101080	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101085	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101086	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101087	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101099	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101827	VOC	55.700	OOO	Polymers and Resins III
30101837	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30101880	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101881	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101882	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101883	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101884	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101885	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101890	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101891	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101892	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101893	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101894	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30101899	VOC	67.400	MMMMM	Flexible Polyurethane Foam Fabrication Ope
30103201	VOC	87.400	UUU	Petroleum Refineries
30103202	VOC	87.400	UUU	Petroleum Refineries
30103203	VOC	87.400	UUU	Petroleum Refineries
30103204	VOC	87.400	UUU	Petroleum Refineries
30103205	VOC	87.400	UUU	Petroleum Refineries
30103299	VOC	87.400	UUU	Petroleum Refineries
30103301	VOC	64.820	MMM	Pesticide Active Ingredient
30103311	VOC	64.820	MMM	Pesticide Active Ingredient
30103312	VOC	64.820	MMM	Pesticide Active Ingredient
30103399	VOC	64.820	MMM	Pesticide Active Ingredient
30103901	VOC	44.500	YY	Generic MACT (Cyanide)
30103902	VOC	44.500	YY	Generic MACT (Cyanide)
30103903	VOC	44.500	YY	Generic MACT (Cyanide)
30105001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105101	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105105	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105108	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105110	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105112	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105114	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105116	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105118	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105120	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105122	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105124	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30105130	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30110002	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30110003	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30110004	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30110005	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30110080	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30110099	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30111103	VOC	43.900	QQQQQ	Friction Products Manufacturing

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30111199	VOC	43.900	QQQQQ	Friction Products Manufacturing
30113001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30113003	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30113004	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30113005	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30113006	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30113007	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
30201901	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201902	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201903	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201904	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201905	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201906	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201907	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201908	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201909	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201911	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201912	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201913	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201914	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201915	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201916	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201917	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201918	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201919	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201920	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201921	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201923	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201925	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201926	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201927	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201930	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201931	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201932	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201933	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201935	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201939	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201941	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201942	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201945	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201949	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201950	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201960	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201997	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201998	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30201999	VOC	38.690	GGGG	Solvent Extraction for Vegetable Oil Produ
30203404	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203405	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203406	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203407	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203410	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203415	VOC	12.500	CCCC	Manufacturing Nutritional Yeast

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30203420	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203421	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203422	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203423	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203424	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203504	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203505	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203506	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203507	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203510	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203530	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203531	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203532	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203533	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203534	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203535	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203536	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30203540	VOC	12.500	CCCC	Manufacturing Nutritional Yeast
30300303	VOC	50.000	CCCCC	Coke Ovens: Pushing, Quenching, Battery St
30300304	VOC	50.000	CCCCC	Coke Ovens: Pushing, Quenching, Battery St
30400301	VOC	40.000	EEEEE	Iron and Steel Foundries
30400302	VOC	40.000	EEEEE	Iron and Steel Foundries
30400303	VOC	40.000	EEEEE	Iron and Steel Foundries
30400304	VOC	40.000	EEEEE	Iron and Steel Foundries
30400305	VOC	40.000	EEEEE	Iron and Steel Foundries
30400310	VOC	40.000	EEEEE	Iron and Steel Foundries
30400314	VOC	40.000	EEEEE	Iron and Steel Foundries
30400315	VOC	40.000	EEEEE	Iron and Steel Foundries
30400316	VOC	40.000	EEEEE	Iron and Steel Foundries
30400317	VOC	40.000	EEEEE	Iron and Steel Foundries
30400318	VOC	40.000	EEEEE	Iron and Steel Foundries
30400319	VOC	40.000	EEEEE	Iron and Steel Foundries
30400320	VOC	40.000	EEEEE	Iron and Steel Foundries
30400321	VOC	40.000	EEEEE	Iron and Steel Foundries
30400322	VOC	40.000	EEEEE	Iron and Steel Foundries
30400325	VOC	40.000	EEEEE	Iron and Steel Foundries
30400330	VOC	40.000	EEEEE	Iron and Steel Foundries
30400331	VOC	40.000	EEEEE	Iron and Steel Foundries
30400332	VOC	40.000	EEEEE	Iron and Steel Foundries
30400333	VOC	40.000	EEEEE	Iron and Steel Foundries
30400340	VOC	40.000	EEEEE	Iron and Steel Foundries
30400341	VOC	40.000	EEEEE	Iron and Steel Foundries
30400342	VOC	40.000	EEEEE	Iron and Steel Foundries
30400350	VOC	40.000	EEEEE	Iron and Steel Foundries
30400351	VOC	40.000	EEEEE	Iron and Steel Foundries
30400352	VOC	40.000	EEEEE	Iron and Steel Foundries
30400353	VOC	40.000	EEEEE	Iron and Steel Foundries
30400354	VOC	40.000	EEEEE	Iron and Steel Foundries
30400355	VOC	40.000	EEEEE	Iron and Steel Foundries
30400356	VOC	40.000	EEEEE	Iron and Steel Foundries
30400357	VOC	40.000	EEEEE	Iron and Steel Foundries
30400358	VOC	40.000	EEEEE	Iron and Steel Foundries

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30400360	VOC	40.000	EEEEE	Iron and Steel Foundries
30400370	VOC	40.000	EEEEE	Iron and Steel Foundries
30400371	VOC	40.000	EEEEE	Iron and Steel Foundries
30400398	VOC	40.000	EEEEE	Iron and Steel Foundries
30400399	VOC	40.000	EEEEE	Iron and Steel Foundries
30500101	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500102	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500103	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500104	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500105	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500106	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500107	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500108	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500110	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500111	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500112	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500113	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500114	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500115	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500116	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500117	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500118	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500119	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500120	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500121	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500130	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500131	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500132	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500133	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500134	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500135	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500140	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500141	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500142	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500143	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500144	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500145	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500146	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500147	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500150	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500151	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500152	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500153	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500154	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500198	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30500199	VOC	28.000	LLLLL	Asphalt Process and Asphalt Roofing
30501201	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501202	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501203	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501204	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501205	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501206	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30501207	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501208	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501209	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501211	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501212	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501213	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501214	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501215	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501221	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501222	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501223	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501224	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30501299	VOC	74.000	HHHH	Wet Formed Fiberglass Mat Production
30600201	VOC	87.400	UUU	Petroleum Refineries (FCC)
30600202	VOC	87.400	UUU	Petroleum Refineries (FCC)
30600301	VOC	87.400	UUU	Petroleum Refineries (FCC)
30600402	VOC	87.400	UUU	Petroleum Refineries (FCC)
30600901	VOC	65.630	UUU	Petroleum Refineries
30600902	VOC	65.630	UUU	Petroleum Refineries
30600903	VOC	65.630	UUU	Petroleum Refineries
30600904	VOC	65.630	UUU	Petroleum Refineries
30600905	VOC	65.630	UUU	Petroleum Refineries
30600906	VOC	65.630	UUU	Petroleum Refineries
30600999	VOC	65.630	UUU	Petroleum Refineries
30601001	VOC	65.630	UUU	Petroleum Refineries
30601101	VOC	65.630	UUU	Petroleum Refineries
30601201	VOC	65.630	UUU	Petroleum Refineries
30601301	VOC	65.630	UUU	Petroleum Refineries
30601401	VOC	65.630	UUU	Petroleum Refineries
30609901	VOC	65.630	UUU	Petroleum Refineries
30609902	VOC	65.630	UUU	Petroleum Refineries
30609903	VOC	65.630	UUU	Petroleum Refineries
30609904	VOC	65.630	UUU	Petroleum Refineries
30609905	VOC	65.630	UUU	Petroleum Refineries
30610001	VOC	65.630	UUU	Petroleum Refineries
30688801	VOC	87.400	UUU	Petroleum Refineries
30688802	VOC	87.400	UUU	Petroleum Refineries
30688803	VOC	87.400	UUU	Petroleum Refineries
30688804	VOC	87.400	UUU	Petroleum Refineries
30688805	VOC	87.400	UUU	Petroleum Refineries
30700103	VOC	7.020	MM	Comustion Sources at Kraft, Soda, and Sulf
30700104	VOC	7.020	MM	Comustion Sources at Kraft, Soda, and Sulf
30700106	VOC	7.020	MM	Comustion Sources at Kraft, Soda, and Sulf
30700110	VOC	7.020	MM	Comustion Sources at Kraft, Soda, and Sulf
30700602	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700604	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700606	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700607	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700608	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700610	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700611	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700621	VOC	41.200	DDDD	Plywood and Composite Wood Products

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30700625	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700626	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700628	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700629	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700630	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700631	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700632	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700635	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700640	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700651	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700655	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700661	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700701	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700702	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700703	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700704	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700705	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700706	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700707	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700708	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700709	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700710	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700711	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700712	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700713	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700714	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700715	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700716	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700717	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700718	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700720	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700725	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700727	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700730	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700734	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700735	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700736	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700737	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700740	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700744	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700746	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700747	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700750	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700752	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700753	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700756	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700757	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700760	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700762	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700763	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700766	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700767	VOC	41.200	DDDD	Plywood and Composite Wood Products

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30700769	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700770	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700771	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700780	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700781	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700783	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700785	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700788	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700789	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700790	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700791	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700792	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700793	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700798	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700799	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700921	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700923	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700925	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700927	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700931	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700932	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700933	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700934	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700935	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700936	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700937	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700939	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700940	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700950	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700960	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700971	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700980	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700981	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700982	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700983	VOC	41.200	DDDD	Plywood and Composite Wood Products
30700984	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701001	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701008	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701009	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701010	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701015	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701020	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701030	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701040	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701053	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701054	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701055	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701057	VOC	41.200	DDDD	Plywood and Composite Wood Products
30701199	VOC	82.050	JJJJ	Paper and Other Web Coating
30800101	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800102	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800103	VOC	47.600	XXXX	Rubber Tire Manufacturing

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
30800104	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800105	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800106	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800107	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800108	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800109	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800110	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800111	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800112	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800113	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800114	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800115	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800116	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800117	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800120	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800121	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800122	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800123	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800124	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800125	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800126	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800127	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800128	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800129	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800130	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800131	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800132	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800133	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800197	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800198	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800199	VOC	47.600	XXXX	Rubber Tire Manufacturing
30800701	VOC	70.000	WWWW	Reinforced Plastics
30800702	VOC	70.000	WWWW	Reinforced Plastics
30800703	VOC	70.000	WWWW	Reinforced Plastics
30800704	VOC	70.000	WWWW	Reinforced Plastics
30800705	VOC	70.000	WWWW	Reinforced Plastics
30800720	VOC	70.000	WWWW	Reinforced Plastics
30800721	VOC	70.000	WWWW	Reinforced Plastics
30800722	VOC	70.000	WWWW	Reinforced Plastics
30800723	VOC	70.000	WWWW	Reinforced Plastics
30800724	VOC	70.000	WWWW	Reinforced Plastics
30800799	VOC	70.000	WWWW	Reinforced Plastics
30801001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
31401001	VOC	43.900	QQQQQ	Friction Products Manufacturing
31401002	VOC	43.900	QQQQQ	Friction Products Manufacturing
31401501	VOC	35.790	VVVV	Boat Manufacturing
31401503	VOC	35.790	VVVV	Boat Manufacturing
31401504	VOC	35.790	VVVV	Boat Manufacturing
31401510	VOC	35.790	VVVV	Boat Manufacturing
31401511	VOC	35.790	VVVV	Boat Manufacturing
31401512	VOC	35.790	VVVV	Boat Manufacturing
31401513	VOC	35.790	VVVV	Boat Manufacturing

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
31401514	VOC	35.790	VVVV	Boat Manufacturing
31401515	VOC	35.790	VVVV	Boat Manufacturing
31401516	VOC	35.790	VVVV	Boat Manufacturing
31401517	VOC	35.790	VVVV	Boat Manufacturing
31401518	VOC	35.790	VVVV	Boat Manufacturing
31401525	VOC	35.790	VVVV	Boat Manufacturing
31401530	VOC	35.790	VVVV	Boat Manufacturing
31401531	VOC	35.790	VVVV	Boat Manufacturing
31401540	VOC	35.790	VVVV	Boat Manufacturing
31401541	VOC	35.790	VVVV	Boat Manufacturing
31401550	VOC	35.790	VVVV	Boat Manufacturing
31401551	VOC	35.790	VVVV	Boat Manufacturing
31401552	VOC	35.790	VVVV	Boat Manufacturing
31401553	VOC	35.790	VVVV	Boat Manufacturing
31401560	VOC	35.790	VVVV	Boat Manufacturing
31401561	VOC	35.790	VVVV	Boat Manufacturing
31401562	VOC	35.790	VVVV	Boat Manufacturing
31401563	VOC	35.790	VVVV	Boat Manufacturing
31401570	VOC	35.790	VVVV	Boat Manufacturing
31401571	VOC	35.790	VVVV	Boat Manufacturing
31604001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
31604002	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
31604003	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
32099997	VOC	38.900	TTTT	Leather Finishing Operations
32099998	VOC	38.900	TTTT	Leather Finishing Operations
32099999	VOC	38.900	TTTT	Leather Finishing Operations
40201101	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201103	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201104	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201105	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201111	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201112	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201113	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201114	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201115	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201116	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201121	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201122	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201197	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201198	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201199	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201201	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201210	VOC	60.170	OOOO	Fabric Printing, Coating, & Dyeing
40201301	VOC	82.050	JJJJ	Paper and Other Web Coating
40201303	VOC	82.050	JJJJ	Paper and Other Web Coating
40201304	VOC	82.050	JJJJ	Paper and Other Web Coating
40201305	VOC	82.050	JJJJ	Paper and Other Web Coating
40201310	VOC	82.050	JJJJ	Paper and Other Web Coating
40201320	VOC	82.050	JJJJ	Paper and Other Web Coating
40201330	VOC	82.050	JJJJ	Paper and Other Web Coating
40201399	VOC	82.050	JJJJ	Paper and Other Web Coating
40201601	VOC	66.730	IIII	Auto and Light Trucks Surface Coating

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
40201602	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201603	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201604	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201605	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201606	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201607	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201608	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201609	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201619	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201620	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201621	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201622	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201623	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201624	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201625	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201626	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201627	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201628	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201629	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201630	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201631	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201632	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201699	VOC	66.730	IIII	Auto and Light Trucks Surface Coating
40201702	VOC	70.830	KKKK	Metal Can
40201703	VOC	70.830	KKKK	Metal Can
40201704	VOC	70.830	KKKK	Metal Can
40201705	VOC	70.830	KKKK	Metal Can
40201706	VOC	70.830	KKKK	Metal Can
40201721	VOC	70.830	KKKK	Metal Can
40201722	VOC	70.830	KKKK	Metal Can
40201723	VOC	70.830	KKKK	Metal Can
40201724	VOC	70.830	KKKK	Metal Can
40201725	VOC	70.830	KKKK	Metal Can
40201726	VOC	70.830	KKKK	Metal Can
40201727	VOC	70.830	KKKK	Metal Can
40201728	VOC	70.830	KKKK	Metal Can
40201729	VOC	70.830	KKKK	Metal Can
40201731	VOC	70.830	KKKK	Metal Can
40201732	VOC	70.830	KKKK	Metal Can
40201733	VOC	70.830	KKKK	Metal Can
40201734	VOC	70.830	KKKK	Metal Can
40201735	VOC	70.830	KKKK	Metal Can
40201736	VOC	70.830	KKKK	Metal Can
40201737	VOC	70.830	KKKK	Metal Can
40201738	VOC	70.830	KKKK	Metal Can
40201739	VOC	70.830	KKKK	Metal Can
40201799	VOC	70.830	KKKK	Metal Can
40201801	VOC	53.060	SSSS	Metal Coil
40201802	VOC	53.060	SSSS	Metal Coil
40201803	VOC	53.060	SSSS	Metal Coil
40201804	VOC	53.060	SSSS	Metal Coil
40201805	VOC	53.060	SSSS	Metal Coil

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
40201806	VOC	53.060	SSSS	Metal Coil
40201807	VOC	53.060	SSSS	Metal Coil
40201899	VOC	53.060	SSSS	Metal Coil
40202001	VOC	73.070	RRRR	Metal Furniture
40202002	VOC	73.070	RRRR	Metal Furniture
40202003	VOC	73.070	RRRR	Metal Furniture
40202004	VOC	73.070	RRRR	Metal Furniture
40202005	VOC	73.070	RRRR	Metal Furniture
40202010	VOC	73.070	RRRR	Metal Furniture
40202011	VOC	73.070	RRRR	Metal Furniture
40202012	VOC	73.070	RRRR	Metal Furniture
40202013	VOC	73.070	RRRR	Metal Furniture
40202014	VOC	73.070	RRRR	Metal Furniture
40202015	VOC	73.070	RRRR	Metal Furniture
40202020	VOC	73.070	RRRR	Metal Furniture
40202021	VOC	73.070	RRRR	Metal Furniture
40202022	VOC	73.070	RRRR	Metal Furniture
40202023	VOC	73.070	RRRR	Metal Furniture
40202024	VOC	73.070	RRRR	Metal Furniture
40202025	VOC	73.070	RRRR	Metal Furniture
40202031	VOC	73.070	RRRR	Metal Furniture
40202032	VOC	73.070	RRRR	Metal Furniture
40202033	VOC	73.070	RRRR	Metal Furniture
40202034	VOC	73.070	RRRR	Metal Furniture
40202035	VOC	73.070	RRRR	Metal Furniture
40202036	VOC	73.070	RRRR	Metal Furniture
40202037	VOC	73.070	RRRR	Metal Furniture
40202038	VOC	73.070	RRRR	Metal Furniture
40202039	VOC	73.070	RRRR	Metal Furniture
40202099	VOC	73.070	RRRR	Metal Furniture
40202101	VOC	74.000	QQQQ	Wood Building Products
40202103	VOC	74.000	QQQQ	Wood Building Products
40202104	VOC	74.000	QQQQ	Wood Building Products
40202105	VOC	74.000	QQQQ	Wood Building Products
40202106	VOC	74.000	QQQQ	Wood Building Products
40202107	VOC	74.000	QQQQ	Wood Building Products
40202108	VOC	74.000	QQQQ	Wood Building Products
40202109	VOC	74.000	QQQQ	Wood Building Products
40202110	VOC	74.000	QQQQ	Wood Building Products
40202111	VOC	74.000	QQQQ	Wood Building Products
40202117	VOC	74.000	QQQQ	Wood Building Products
40202118	VOC	74.000	QQQQ	Wood Building Products
40202131	VOC	74.000	QQQQ	Wood Building Products
40202132	VOC	74.000	QQQQ	Wood Building Products
40202133	VOC	74.000	QQQQ	Wood Building Products
40202140	VOC	74.000	QQQQ	Wood Building Products
40202199	VOC	74.000	QQQQ	Wood Building Products
40202201	VOC	77.000	PPPP	Plastic Parts Coating
40202202	VOC	77.000	PPPP	Plastic Parts Coating
40202203	VOC	77.000	PPPP	Plastic Parts Coating
40202204	VOC	77.000	PPPP	Plastic Parts Coating
40202205	VOC	77.000	PPPP	Plastic Parts Coating

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
40202206	VOC	77.000	PPPP	Plastic Parts Coating
40202207	VOC	77.000	PPPP	Plastic Parts Coating
40202208	VOC	77.000	PPPP	Plastic Parts Coating
40202209	VOC	77.000	PPPP	Plastic Parts Coating
40202210	VOC	77.000	PPPP	Plastic Parts Coating
40202211	VOC	77.000	PPPP	Plastic Parts Coating
40202212	VOC	77.000	PPPP	Plastic Parts Coating
40202213	VOC	77.000	PPPP	Plastic Parts Coating
40202214	VOC	77.000	PPPP	Plastic Parts Coating
40202215	VOC	77.000	PPPP	Plastic Parts Coating
40202220	VOC	77.000	PPPP	Plastic Parts Coating
40202229	VOC	77.000	PPPP	Plastic Parts Coating
40202230	VOC	77.000	PPPP	Plastic Parts Coating
40202239	VOC	77.000	PPPP	Plastic Parts Coating
40202240	VOC	77.000	PPPP	Plastic Parts Coating
40202249	VOC	77.000	PPPP	Plastic Parts Coating
40202250	VOC	77.000	PPPP	Plastic Parts Coating
40202259	VOC	77.000	PPPP	Plastic Parts Coating
40202270	VOC	77.000	PPPP	Plastic Parts Coating
40202280	VOC	77.000	PPPP	Plastic Parts Coating
40202299	VOC	77.000	PPPP	Plastic Parts Coating
40202501	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202502	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202503	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202504	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202505	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202510	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202511	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202512	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202515	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202520	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202521	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202522	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202523	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202524	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202525	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202531	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202532	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202533	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202534	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202535	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202536	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202537	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202542	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202543	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202544	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202545	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202546	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202599	VOC	47.930	MMMM	Misc. Metal Parts and Products
40202601	VOC	66.200	HHHHH	Misc. Coating Manufacturing
40202602	VOC	66.200	HHHHH	Misc. Coating Manufacturing
40202603	VOC	66.200	HHHHH	Misc. Coating Manufacturing

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
40202604	VOC	66.200	HHHHH	Misc. Coating Manufacturing
40202605	VOC	66.200	HHHHH	Misc. Coating Manufacturing
40202606	VOC	66.200	HHHHH	Misc. Coating Manufacturing
40202607	VOC	66.200	HHHHH	Misc. Coating Manufacturing
40202699	VOC	66.200	HHHHH	Misc. Coating Manufacturing
40388801	VOC	65.630	UUU	Petroleum Refineries
40388802	VOC	65.630	UUU	Petroleum Refineries
40388803	VOC	65.630	UUU	Petroleum Refineries
40388804	VOC	65.630	UUU	Petroleum Refineries
40388805	VOC	65.630	UUU	Petroleum Refineries
40399999	VOC	65.630	UUU	Petroleum Refineries
50400101	VOC	50.080	GGGGG	Site Remediation
50400102	VOC	50.080	GGGGG	Site Remediation
50400103	VOC	50.080	GGGGG	Site Remediation
50400104	VOC	50.080	GGGGG	Site Remediation
50400150	VOC	50.080	GGGGG	Site Remediation
50400151	VOC	50.080	GGGGG	Site Remediation
50400201	VOC	50.080	GGGGG	Site Remediation
50400202	VOC	50.080	GGGGG	Site Remediation
50410001	VOC	50.080	GGGGG	Site Remediation
50410002	VOC	50.080	GGGGG	Site Remediation
50410003	VOC	50.080	GGGGG	Site Remediation
50410004	VOC	50.080	GGGGG	Site Remediation
50410005	VOC	50.080	GGGGG	Site Remediation
50410010	VOC	50.080	GGGGG	Site Remediation
50410020	VOC	50.080	GGGGG	Site Remediation
50410021	VOC	50.080	GGGGG	Site Remediation
50410022	VOC	50.080	GGGGG	Site Remediation
50410030	VOC	50.080	GGGGG	Site Remediation
50410040	VOC	50.080	GGGGG	Site Remediation
50410101	VOC	50.080	GGGGG	Site Remediation
50410110	VOC	50.080	GGGGG	Site Remediation
50410111	VOC	50.080	GGGGG	Site Remediation
50410112	VOC	50.080	GGGGG	Site Remediation
50410120	VOC	50.080	GGGGG	Site Remediation
50410121	VOC	50.080	GGGGG	Site Remediation
50410122	VOC	50.080	GGGGG	Site Remediation
50410123	VOC	50.080	GGGGG	Site Remediation
50410124	VOC	50.080	GGGGG	Site Remediation
50410210	VOC	50.080	GGGGG	Site Remediation
50410211	VOC	50.080	GGGGG	Site Remediation
50410212	VOC	50.080	GGGGG	Site Remediation
50410213	VOC	50.080	GGGGG	Site Remediation
50410214	VOC	50.080	GGGGG	Site Remediation
50410215	VOC	50.080	GGGGG	Site Remediation
50410216	VOC	50.080	GGGGG	Site Remediation
50410310	VOC	50.080	GGGGG	Site Remediation
50410311	VOC	50.080	GGGGG	Site Remediation
50410312	VOC	50.080	GGGGG	Site Remediation
50410313	VOC	50.080	GGGGG	Site Remediation
50410314	VOC	50.080	GGGGG	Site Remediation
50410321	VOC	50.080	GGGGG	Site Remediation

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
50410322	VOC	50.080	GGGGG	Site Remediation
50410405	VOC	50.080	GGGGG	Site Remediation
50410406	VOC	50.080	GGGGG	Site Remediation
50410407	VOC	50.080	GGGGG	Site Remediation
50410408	VOC	50.080	GGGGG	Site Remediation
50410409	VOC	50.080	GGGGG	Site Remediation
50410420	VOC	50.080	GGGGG	Site Remediation
50410510	VOC	50.080	GGGGG	Site Remediation
50410511	VOC	50.080	GGGGG	Site Remediation
50410512	VOC	50.080	GGGGG	Site Remediation
50410513	VOC	50.080	GGGGG	Site Remediation
50410514	VOC	50.080	GGGGG	Site Remediation
50410520	VOC	50.080	GGGGG	Site Remediation
50410521	VOC	50.080	GGGGG	Site Remediation
50410522	VOC	50.080	GGGGG	Site Remediation
50410523	VOC	50.080	GGGGG	Site Remediation
50410524	VOC	50.080	GGGGG	Site Remediation
50410525	VOC	50.080	GGGGG	Site Remediation
50410530	VOC	50.080	GGGGG	Site Remediation
50410531	VOC	50.080	GGGGG	Site Remediation
50410532	VOC	50.080	GGGGG	Site Remediation
50410533	VOC	50.080	GGGGG	Site Remediation
50410534	VOC	50.080	GGGGG	Site Remediation
50410535	VOC	50.080	GGGGG	Site Remediation
50410536	VOC	50.080	GGGGG	Site Remediation
50410537	VOC	50.080	GGGGG	Site Remediation
50410538	VOC	50.080	GGGGG	Site Remediation
50410539	VOC	50.080	GGGGG	Site Remediation
50410540	VOC	50.080	GGGGG	Site Remediation
50410541	VOC	50.080	GGGGG	Site Remediation
50410542	VOC	50.080	GGGGG	Site Remediation
50410543	VOC	50.080	GGGGG	Site Remediation
50410560	VOC	50.080	GGGGG	Site Remediation
50410561	VOC	50.080	GGGGG	Site Remediation
50410562	VOC	50.080	GGGGG	Site Remediation
50410563	VOC	50.080	GGGGG	Site Remediation
50410564	VOC	50.080	GGGGG	Site Remediation
50410565	VOC	50.080	GGGGG	Site Remediation
50410610	VOC	50.080	GGGGG	Site Remediation
50410620	VOC	50.080	GGGGG	Site Remediation
50410621	VOC	50.080	GGGGG	Site Remediation
50410622	VOC	50.080	GGGGG	Site Remediation
50410623	VOC	50.080	GGGGG	Site Remediation
50410640	VOC	50.080	GGGGG	Site Remediation
50410641	VOC	50.080	GGGGG	Site Remediation
50410642	VOC	50.080	GGGGG	Site Remediation
50410643	VOC	50.080	GGGGG	Site Remediation
50410644	VOC	50.080	GGGGG	Site Remediation
50410645	VOC	50.080	GGGGG	Site Remediation
50410710	VOC	50.080	GGGGG	Site Remediation
50410711	VOC	50.080	GGGGG	Site Remediation
50410712	VOC	50.080	GGGGG	Site Remediation

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
50410720	VOC	50.080	GGGGG	Site Remediation
50410721	VOC	50.080	GGGGG	Site Remediation
50410722	VOC	50.080	GGGGG	Site Remediation
50410723	VOC	50.080	GGGGG	Site Remediation
50410724	VOC	50.080	GGGGG	Site Remediation
50410725	VOC	50.080	GGGGG	Site Remediation
50410726	VOC	50.080	GGGGG	Site Remediation
50410740	VOC	50.080	GGGGG	Site Remediation
50410760	VOC	50.080	GGGGG	Site Remediation
50410761	VOC	50.080	GGGGG	Site Remediation
50410762	VOC	50.080	GGGGG	Site Remediation
50410763	VOC	50.080	GGGGG	Site Remediation
50410764	VOC	50.080	GGGGG	Site Remediation
50410765	VOC	50.080	GGGGG	Site Remediation
50410766	VOC	50.080	GGGGG	Site Remediation
50410780	VOC	50.080	GGGGG	Site Remediation
50480001	VOC	50.080	GGGGG	Site Remediation
50482001	VOC	50.080	GGGGG	Site Remediation
50482002	VOC	50.080	GGGGG	Site Remediation
50482599	VOC	50.080	GGGGG	Site Remediation
50490004	VOC	50.080	GGGGG	Site Remediation
62540001	VOC	62.900	UUUU	Cellulose Products
62540010	VOC	62.900	UUUU	Cellulose Products
62540020	VOC	62.900	UUUU	Cellulose Products
62540021	VOC	62.900	UUUU	Cellulose Products
62540022	VOC	62.900	UUUU	Cellulose Products
62540023	VOC	62.900	UUUU	Cellulose Products
62540024	VOC	62.900	UUUU	Cellulose Products
62540025	VOC	62.900	UUUU	Cellulose Products
62540030	VOC	62.900	UUUU	Cellulose Products
62540040	VOC	62.900	UUUU	Cellulose Products
62540041	VOC	62.900	UUUU	Cellulose Products
62540042	VOC	62.900	UUUU	Cellulose Products
62540050	VOC	62.900	UUUU	Cellulose Products
62580001	VOC	62.900	UUUU	Cellulose Products
62582001	VOC	62.900	UUUU	Cellulose Products
62582002	VOC	62.900	UUUU	Cellulose Products
62582501	VOC	62.900	UUUU	Cellulose Products
62582502	VOC	62.900	UUUU	Cellulose Products
62582503	VOC	62.900	UUUU	Cellulose Products
62582599	VOC	62.900	UUUU	Cellulose Products
64130001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130101	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130110	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130111	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130112	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130125	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130201	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130210	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
64130211	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64130225	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64131001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64131010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64131011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64131015	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64131020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64131025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64131030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64132001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64132010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64132011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64132020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64132025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64132030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64133001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64133010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64133011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64133020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64133025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64133030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64180001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64182001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64182002	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64182599	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64420001	VOC	62.900	UUUU	Cellulose Products
64420010	VOC	62.900	UUUU	Cellulose Products
64420011	VOC	62.900	UUUU	Cellulose Products
64420012	VOC	62.900	UUUU	Cellulose Products
64420013	VOC	62.900	UUUU	Cellulose Products
64420014	VOC	62.900	UUUU	Cellulose Products
64420015	VOC	62.900	UUUU	Cellulose Products
64420016	VOC	62.900	UUUU	Cellulose Products
64420020	VOC	62.900	UUUU	Cellulose Products
64420021	VOC	62.900	UUUU	Cellulose Products
64420022	VOC	62.900	UUUU	Cellulose Products
64420030	VOC	62.900	UUUU	Cellulose Products
64420031	VOC	62.900	UUUU	Cellulose Products
64420032	VOC	62.900	UUUU	Cellulose Products
64420033	VOC	62.900	UUUU	Cellulose Products
64420034	VOC	62.900	UUUU	Cellulose Products
64420040	VOC	62.900	UUUU	Cellulose Products
64420041	VOC	62.900	UUUU	Cellulose Products
64420042	VOC	62.900	UUUU	Cellulose Products
64430001	VOC	62.900	UUUU	Cellulose Products
64430010	VOC	62.900	UUUU	Cellulose Products
64430011	VOC	62.900	UUUU	Cellulose Products
64430012	VOC	62.900	UUUU	Cellulose Products
64430013	VOC	62.900	UUUU	Cellulose Products
64430014	VOC	62.900	UUUU	Cellulose Products
64430015	VOC	62.900	UUUU	Cellulose Products
64430016	VOC	62.900	UUUU	Cellulose Products

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
64430017	VOC	62.900	UUUU	Cellulose Products
64430030	VOC	62.900	UUUU	Cellulose Products
64431001	VOC	62.900	UUUU	Cellulose Products
64431010	VOC	62.900	UUUU	Cellulose Products
64431011	VOC	62.900	UUUU	Cellulose Products
64431012	VOC	62.900	UUUU	Cellulose Products
64431013	VOC	62.900	UUUU	Cellulose Products
64431014	VOC	62.900	UUUU	Cellulose Products
64431015	VOC	62.900	UUUU	Cellulose Products
64431016	VOC	62.900	UUUU	Cellulose Products
64431017	VOC	62.900	UUUU	Cellulose Products
64431030	VOC	62.900	UUUU	Cellulose Products
64450001	VOC	62.900	UUUU	Cellulose Products
64450010	VOC	62.900	UUUU	Cellulose Products
64450011	VOC	62.900	UUUU	Cellulose Products
64450012	VOC	62.900	UUUU	Cellulose Products
64450013	VOC	62.900	UUUU	Cellulose Products
64450014	VOC	62.900	UUUU	Cellulose Products
64450020	VOC	62.900	UUUU	Cellulose Products
64450021	VOC	62.900	UUUU	Cellulose Products
64450022	VOC	62.900	UUUU	Cellulose Products
64450030	VOC	62.900	UUUU	Cellulose Products
64450031	VOC	62.900	UUUU	Cellulose Products
64450032	VOC	62.900	UUUU	Cellulose Products
64450033	VOC	62.900	UUUU	Cellulose Products
64450034	VOC	62.900	UUUU	Cellulose Products
64450035	VOC	62.900	UUUU	Cellulose Products
64450036	VOC	62.900	UUUU	Cellulose Products
64450040	VOC	62.900	UUUU	Cellulose Products
64450041	VOC	62.900	UUUU	Cellulose Products
64450042	VOC	62.900	UUUU	Cellulose Products
64450050	VOC	62.900	UUUU	Cellulose Products
64450051	VOC	62.900	UUUU	Cellulose Products
64450052	VOC	62.900	UUUU	Cellulose Products
64450053	VOC	62.900	UUUU	Cellulose Products
64450060	VOC	62.900	UUUU	Cellulose Products
64450061	VOC	62.900	UUUU	Cellulose Products
64450062	VOC	62.900	UUUU	Cellulose Products
64520001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520021	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520022	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520023	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520031	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520032	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520040	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64520041	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
64521011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521021	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521022	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521023	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521040	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64521041	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610012	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610021	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610022	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610031	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610032	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610040	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610041	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610050	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610101	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610110	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610111	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610112	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610120	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610121	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610122	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610130	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610131	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610132	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610140	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610141	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610142	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610143	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610150	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610201	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610210	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610211	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610212	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610220	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610221	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610222	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610230	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610231	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610232	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610240	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610241	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610242	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610250	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610301	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610310	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610311	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
64610312	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610320	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610321	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610322	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610330	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610331	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610332	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610340	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64610350	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615012	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615021	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615022	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615023	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64615030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620012	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620013	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620015	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620016	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620017	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620018	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620021	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620022	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620026	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620027	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620031	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620032	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620033	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620034	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620035	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620036	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620037	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64620038	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630012	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630015	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630016	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630026	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630035	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630040	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
64630041	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630042	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630050	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630051	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630052	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630053	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630080	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630081	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630082	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64630083	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631012	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631015	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631016	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631025	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631026	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631040	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631050	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631051	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631052	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631053	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631080	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631081	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631082	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64631083	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632015	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632016	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632040	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632041	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632042	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632050	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632051	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632052	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632053	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632080	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632081	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632082	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64632083	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64680001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64682001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64682002	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64682501	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64682502	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64682599	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
64820010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64821001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64821010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64822001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64822010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64823001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64823010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64824001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64824010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64880001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64882001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64882002	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64882599	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
64920001	VOC	62.900	UUUU	Cellulose Products
64920010	VOC	62.900	UUUU	Cellulose Products
64920011	VOC	62.900	UUUU	Cellulose Products
64920012	VOC	62.900	UUUU	Cellulose Products
64920013	VOC	62.900	UUUU	Cellulose Products
64920020	VOC	62.900	UUUU	Cellulose Products
64920021	VOC	62.900	UUUU	Cellulose Products
64920022	VOC	62.900	UUUU	Cellulose Products
64920030	VOC	62.900	UUUU	Cellulose Products
64920031	VOC	62.900	UUUU	Cellulose Products
64920032	VOC	62.900	UUUU	Cellulose Products
64920033	VOC	62.900	UUUU	Cellulose Products
64920034	VOC	62.900	UUUU	Cellulose Products
64930001	VOC	62.900	UUUU	Cellulose Products
64930010	VOC	62.900	UUUU	Cellulose Products
64930011	VOC	62.900	UUUU	Cellulose Products
64930012	VOC	62.900	UUUU	Cellulose Products
64930020	VOC	62.900	UUUU	Cellulose Products
64930021	VOC	62.900	UUUU	Cellulose Products
64930030	VOC	62.900	UUUU	Cellulose Products
64930031	VOC	62.900	UUUU	Cellulose Products
64930035	VOC	62.900	UUUU	Cellulose Products
64930040	VOC	62.900	UUUU	Cellulose Products
64930041	VOC	62.900	UUUU	Cellulose Products
64930045	VOC	62.900	UUUU	Cellulose Products
64930050	VOC	62.900	UUUU	Cellulose Products
64931001	VOC	62.900	UUUU	Cellulose Products
64931010	VOC	62.900	UUUU	Cellulose Products
64931011	VOC	62.900	UUUU	Cellulose Products
64931012	VOC	62.900	UUUU	Cellulose Products
64931020	VOC	62.900	UUUU	Cellulose Products
64931021	VOC	62.900	UUUU	Cellulose Products
64931022	VOC	62.900	UUUU	Cellulose Products
64931030	VOC	62.900	UUUU	Cellulose Products
64931031	VOC	62.900	UUUU	Cellulose Products
64931032	VOC	62.900	UUUU	Cellulose Products
64931040	VOC	62.900	UUUU	Cellulose Products
64931041	VOC	62.900	UUUU	Cellulose Products
64931050	VOC	62.900	UUUU	Cellulose Products

SCC	PLLTCODE	CE_MACT	SUBPART	MACT CATEGORY DESCRIPTION
64980001	VOC	62.900	UUUU	Cellulose Products
64982001	VOC	62.900	UUUU	Cellulose Products
64982002	VOC	62.900	UUUU	Cellulose Products
64982599	VOC	62.900	UUUU	Cellulose Products
65135001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
65140001	VOC	44.500	YY	Generic MACT (Cyanide)
65140010	VOC	44.500	YY	Generic MACT (Cyanide)
65140011	VOC	44.500	YY	Generic MACT (Cyanide)
65140012	VOC	44.500	YY	Generic MACT (Cyanide)
65140013	VOC	44.500	YY	Generic MACT (Cyanide)
65140014	VOC	44.500	YY	Generic MACT (Cyanide)
65140015	VOC	44.500	YY	Generic MACT (Cyanide)
65140016	VOC	44.500	YY	Generic MACT (Cyanide)
65140017	VOC	44.500	YY	Generic MACT (Cyanide)
65140018	VOC	44.500	YY	Generic MACT (Cyanide)
65140030	VOC	44.500	YY	Generic MACT (Cyanide)
68430001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68430010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68430011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68430020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68430030	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68430031	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68430032	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68445001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68445010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68445013	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68445020	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68445022	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68445101	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68445201	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68510001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68510010	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68510011	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68580001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68582001	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68582002	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc
68582599	VOC	66.200	FFFF	Misc. Organic Chemical Production and Proc

Table B-5 NonEGU Source Shutdowns

FIPS	SITE ID	FACILTY NAME	EU ID	UNIT DESCRIPTION
10003	1000300021	SUNCO INC R M	001	BOILER #1
10003	1000300021	SUNCO INC R M	002	BOILER #2
10003	1000300021	SUNCO INC R M	003	BOILER #3
10003	1000300016	MOTIVA ENTERPRISES LLC	072	METHANOL PLT HTR 41-H-1
10003	1000300004	WILMINGTON PIECE DYE CO	ALL	ALL
10003	1000300032	GENERAL CHEMICAL CORPORATION	ALL	ALL
10003	1000300074	METACHEM PRODUCTS LLC	ALL	ALL
10003	1000300127	VPI FILM LLC	ALL	ALL
10003	1000300129	LAFARGE NORTH AMERICA INC	ALL	ALL
10003	1000300350	KANEKA DELAWARE CORPORATION	ALL	ALL
25001	1200202	PARTYLITE WORLDWIDE	ALL	ALL
25001	1200614	BOURNE LANDFILL	ALL	ALL
25003	1170002	ADVANCED INFORMATION	ALL	ALL
25003	1170005	CATAMOUNT PELLET FUE	ALL	ALL
25003	1170048	SPRAGUE NORTH ADAMS	ALL	ALL
25003	1170056	BERKSHIRE GAS STOCKB	ALL	ALL
25003	1170078	MACDERMID GRAPHIC AR	ALL	ALL
25003	1170091	LANE CONSTRUCTION CO	ALL	ALL
25005	1200009	TEXAS INSTRUMENTS	ALL	ALL
25005	1200031	CONDEA VISTA CO	ALL	ALL
25005	1200036	ELKAY REVERE CORP	ALL	ALL
25005	1200037	AEROVOX INCORPORATED	ALL	ALL
25005	1200065	ROSEMAR SILVER COMPA	ALL	ALL
25005	1200080	ATTLEBORO REFINING C	ALL	ALL
25005	1200116	STEDRO TEXTILES	ALL	ALL
25005	1200138	CLIFTEX CORPORATION	ALL	ALL
25005	1200169	PAUL DEVER STATE SCH	ALL	ALL
25005	1200209	PHARMACY SERVICE COR	ALL	ALL
25005	1200216	BRISTOL COUNTY JAIL	ALL	ALL
25005	1200235	SEA WATCH INTERNATIO	ALL	ALL
25005	1200393	OLSONS GREENHOUSES	ALL	ALL
25005	1200468	AA WILL MATERIALS-FR	ALL	ALL
25005	1200498	CRAPO HILL LANDFILL	ALL	ALL
25005	1200510	KREW INCORPORATED	ALL	ALL
25005	1200513	AEROVOX INCORPORATED	ALL	ALL
25005	1200542	LALLY COLUMN CORP	ALL	ALL
25005	1200673	HOMELAND BUILDERS	ALL	ALL
25005	1200824	JUSTIN CLOTHING CO	ALL	ALL
25005	1200880	VELVET DRIVE TRANSMI	ALL	ALL

FIPS	SITE ID	FACILTY NAME	EU ID	UNIT DESCRIPTION
25005	1192308	INTERSTATE MAT & RUB	ALL	ALL
25009	1210057	COASTAL METAL FINISH	ALL	ALL
25009	1210058	AMESBURY CHAIR	ALL	ALL
25009	1210075	HAMPSHIRE FABRICS	ALL	ALL
25009	1210099	WASTE MANAGEMENT HUN	ALL	ALL
25009	1210110	CUSTOM INDUSTRIES IN	ALL	ALL
25009	1210114	SAGAMORE INDUSTRIAL	ALL	ALL
25009	1210143	LABELS INC	ALL	ALL
25009	1210154	NEWARK ATLANTIC PAPE	ALL	ALL
25009	1210208	TEK COATING COMPANY	ALL	ALL
25009	1210209	NATIONAL NORTHEAST	ALL	ALL
25009	1210223	STARENSIER INC	ALL	ALL
25009	1210400	SANMINA CORPORATION	ALL	ALL
25009	1210401	COVANTA HAVERHILL IN	ALL	ALL
25009	1210404	TEKE FURNITURE RESTO	ALL	ALL
25009	1190756	PERMAIR LEATHERS INC	ALL	ALL
25009	1190842	SLB SNACKS INC	ALL	ALL
25009	1190983	SALEM OIL & GREASE C	ALL	ALL
25009	1191036	JCR ELECTRONICS	ALL	ALL
25009	1195900	LEPAGES INC	ALL	ALL
25013	0420008	DELUXE FINANCIAL	ALL	ALL
25013	0420010	FRYE COPYSYSTEMS INC	ALL	ALL
25013	0420013	JAHN FOUNDRY CORPORA	ALL	ALL
25013	0420052	APW/WRIGHT LINE	ALL	ALL
25013	0420130	KODAK POLYCHROME GRA	ALL	ALL
25013	0420175	FIBERMARK DSI	ALL	ALL
25013	0420218	SPRINGFIELD PRINTING	ALL	ALL
25013	0420252	KODAK POLYCHROME GRA	ALL	ALL
25013	0420528	NATIONAL METAL INDUS	ALL	ALL
25015	0420060	BERKSHIRE GAS HATFIE	ALL	ALL
25015	0420105	INDUSTRIAL POWER SER	ALL	ALL
25015	0420170	TECHALLOY COMPANY IN	ALL	ALL
25015	0420424	MAGNAT MACHINETECH I	ALL	ALL
25015	0420463	INDUSTRIAL PROP OF E	ALL	ALL
25015	0420540	GENERAL CABLE CORP	ALL	ALL
25015	0420614	REXAM IMAGE PRODUCTS	ALL	ALL
25017	1210013	MERRIMACK MAGNETICS	ALL	ALL
25017	1210050	MAJILITE MFG INC	ALL	ALL
25017	1210064	FINISH UNLIMITED INC	ALL	ALL
25017	1190080	MASS BROKEN STONE CO	ALL	ALL
25017	1210127	USM CORPORATION	ALL	ALL

FIPS	SITE ID	FACILTY NAME	EU ID	UNIT DESCRIPTION
25017	1210147	UMASS LOWELL-RESIDEN	ALL	ALL
25017	1210182	JOAN FABRICS CORP	ALL	ALL
25017	1190203	SC WAKEFIELD 200	ALL	ALL
25017	1190212	OLYMPUS SPECIALTY HO	ALL	ALL
25017	1190258	ROYAL INSTITUTIONAL	ALL	ALL
25017	1210334	T&T INDUSTRIAL	ALL	ALL
25017	1190465	PRINTED CIRCUIT CORP	ALL	ALL
25017	1190611	GEORGE MEADE FOUNDRY	ALL	ALL
25017	1190734	NEW ENGLAND CONFECTI	ALL	ALL
25017	1180794	SCHOTT CML FIBEROPTI	ALL	ALL
25017	1190984	SUNGARD AVAILABILITY	ALL	ALL
25017	1191008	RAYTHEON SYSTEMS CO	ALL	ALL
25017	1191217	BOSTON SCIENTIFIC CO	ALL	ALL
25017	1191267	AGFA DIVISION OF BAY	ALL	ALL
25017	1191351	MIT EDUCATIONAL FACI	ALL	ALL
25017	1191389	LONGVIEW FIBRE COMPA	ALL	ALL
25017	1191534	SWISSTRONICS INCORPO	ALL	ALL
25017	1191653	FOCAL INCORPORATED	ALL	ALL
25017	1191668	LEE PRODUCTS COMPANY	ALL	ALL
25017	1191735	TYCO ELECTRONICS COR	ALL	ALL
25017	1191897	GENZYME CORPORATION	ALL	ALL
25017	1194001	WF WOOD INC	ALL	ALL
25017	1194010	RR DONNELLEY & SONS	ALL	ALL
25017	1214012	PERFORMANCE CORRUGAT	ALL	ALL
25021	1190246	SOUTHWOOD COMMUNITY	ALL	ALL
25021	1190313	INNOVATIVE MEMBRANE	ALL	ALL
25021	1180359	BEVILACQUA PAVING CO	ALL	ALL
25021	1200515	FOXBOROUGH REALTY AS	ALL	ALL
25021	1200616	PLAINVILLE GENERATIN	ALL	ALL
25021	1190670	RAYTHEON ELECTRONIC	ALL	ALL
25021	1190714	TEVA PHARMACEUTICAL	ALL	ALL
25021	1190962	NIDEC AMERICA CORPOR	ALL	ALL
25021	1191562	BARCLAY HOUSE THE	ALL	ALL
25021	1191726	MWRA QUINCY PS	ALL	ALL
25021	1192130	CURRY WOODWORKING IN	ALL	ALL
25021	1199000	MEDFIELD STATE HOSPI	ALL	ALL
25023	1200637	FRANKLIN FIXTURES IN	ALL	ALL
25023	1200698	CRANBERRY GRAPHICS I	ALL	ALL
25023	1192101	GTR FINISHING CORPOR	ALL	ALL
25023	1192109	ALGER CORPORATION TH	ALL	ALL
25023	1192210	IMPERIA CORPORATION	ALL	ALL

FIPS	SITE ID	FACILTY NAME	EU ID	UNIT DESCRIPTION
25023	1199994	TEST-RADIUS-FITZGERA	ALL	ALL
25025	1190035	BOSTON WATER & SEWER	ALL	ALL
25025	1190057	NEPONSET RIVER VALLE	ALL	ALL
25025	1190101	UNIFIRST CORP	ALL	ALL
25025	1190357	DAMRELL EWER PARTNER	ALL	ALL
25025	1190478	WINTHROP COMMUNITY H	ALL	ALL
25025	1190649	ZAPCO READVILLE COGE	ALL	ALL
25025	1190808	PUBLIC HEALTH COMMUN	ALL	ALL
25025	1191551	BEACON CAPITAL PARTN	ALL	ALL
25025	1191566	NEW ENGLAND TRAWLER	ALL	ALL
25025	1191621	FEDERAL MOGUL FRICTI	ALL	ALL
25025	1191662	EQUITY OFFICE	ALL	ALL
25025	1191956	CHANNEL CENTER:PARCE	ALL	ALL
25025	1195596	SYNTHON IND INCORPOR	ALL	ALL
25027	1180010	CANTERBURY TOWERS	ALL	ALL
25027	1180014	ER BUCK CHAIR COMPAN	ALL	ALL
25027	1180029	GENERAL ELECTRIC FIT	ALL	ALL
25027	1180091	ANGLO FABRICS COMPAN	ALL	ALL
25027	1180100	ZAPCO ENERGY TACTICS	ALL	ALL
25027	1180111	CINCINATTI MILACRON	ALL	ALL
25027	1180114	NEW ENGLAND PLATING	ALL	ALL
25027	1180129	GF WRIGHT STEEL & WI	ALL	ALL
25027	1180132	STANDARDFOUNDRY	ALL	ALL
25027	1180174	WORCESTER TOOL & STA	ALL	ALL
25027	1180203	WORCESTER COUNTY HOS	ALL	ALL
25027	1180244	HI TECH METALS & FIN	ALL	ALL
25027	1180340	GHM INDUSTRIES INC	ALL	ALL
25027	1180353	ADVANCED MICROSENSOR	ALL	ALL
25027	1180355	NEWARK AMERICA	ALL	ALL
25027	1180373	ZYGO TERAOPTIX	ALL	ALL
25027	1180389	ETHAN ALLEN-DUDLEY	ALL	ALL
25027	1180439	INLAND PAPERBOARD &	ALL	ALL
25027	1180484	NELMOR COMPANY	ALL	ALL
25027	1180518	JAMESBURY INCORPORAT	ALL	ALL
25027	1180556	M&H TIRE CO INC	ALL	ALL
25027	1180568	CROFT CORPORATION	ALL	ALL
25027	1180796	LINCOLN PLAZA CENTER	ALL	ALL
25027	1180994	COZ PLASTICS INC	ALL	ALL
25027	1181045	WORCESTER TAPER PIN	ALL	ALL
33011	3301100093	BATESVILLE MANUFACTURING	ALL	ALL
33015	3301500058	VENTURE SEABROOK	ALL	ALL

Appendix C – Area Source Growth Factors

Table C-1 Area Source Growth Factors by SCC Code

See Electronic File: MANE-VU_Area_gf_scc.xls

This table contains records with area source growth factors by county and SCC. The format for the tables is as follows:

Column A – County FIPS code

Column B – Source Classification Code (SCC)

Column C – EGAS_02_09 this is the EGAS 5.0 factor for projecting from 2002 to 2009

Column D – AEO5_02_09 this is the DOE AEO 2005 factor for projecting from 2002 to 2009

Column E – ST_02_09 this is the state-supplied factor for projecting from 2002 to 2009

Column F – GF_02_09 this is the final factor actually used for projecting from 2002 to 2009 (it is the state-supplied factor, if available; if no state-supplied factor, then it is the AEO2005 factor; if no AEO2005 factor, then it is the default EGAS 5.0 factor)

Column G – EGAS_02_12 this is the EGAS 5.0 factor for projecting from 2002 to 2012

Column H – AEO5_02_12 this is the DOE AEO 2005 factor for projecting from 2002 to 2012

Column I – ST_02_12 this is the state-supplied factor for projecting from 2002 to 2012

Column J – GF_02_09 this is the final factor actually used for projecting from 2002 to 2012 (it is the state-supplied factor, if available; if no state-supplied factor, then it is the AEO2005 factor; if no AEO2005 factor, then it is the default EGAS 5.0 factor)

Column K – EGAS_02_18 this is the EGAS 5.0 factor for projecting from 2002 to 2018

Column J – AEO5_02_18 this is the DOE AEO 2005 factor for projecting from 2002 to 2018

Column M– ST_02_18 this is the state-supplied factor for projecting from 2002 to 2018

Column N – GF_02_09 this is the final factor actually used for projecting from 2002 to 2012 (it is the state-supplied factor, if available; if no state-supplied factor, then it is the AEO2005 factor; if no AEO2005 factor, then it is the default EGAS 5.0 factor)

Column O – SCC description

Appendix D – Area Source Control Factors

Table D-1 Area Source Control Factors for 2001 OTC VOC Model Rules

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
AIM Coatings						
09	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
09	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
10	2401002000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings - Solvent-based;Surface Coating
10	2401003000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings - Water-based;Surface Coating
10	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
10	2401102000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings- Solve;Surface Coating
10	2401103000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings- Water;Surface Coating
11	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
11	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
11	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating
11	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
23	2401001000	VOC	29.50	29.50	29.50	Total: All Solvent Types;Architectural Coatings;Surface Coating
23	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
23	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating
23	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
24	2401002000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings - Solvent-based;Surface Coating
24	2401003000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings - Water-based;Surface Coating
24	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
24	2401008999	VOC	31.00	31.00	31.00	Solvents: NEC;Traffic Markings;Surface Coating
24	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating
24	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
25	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
25	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
25	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
25	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
33	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
33	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
33	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating
33	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
34	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
34	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
34	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating
34	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
36	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
36	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
42	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
42	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
42	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating
42	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
44	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
44	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
50	2401001000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Architectural Coatings;Surface Coating
50	2401008000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Traffic Markings;Surface Coating
50	2401100000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Industrial Maintenance Coatings;Surface Coating
50	2401200000	VOC	31.00	31.00	31.00	Total: All Solvent Types;Other Special Purpose Coatings;Surface Coating
Consumer Products						
09	2465000000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Products/Processes;Miscellaneous Non-industrial: Consumer
10	2460100000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Personal Care Products;Miscellaneous Non-industrial: Consumer and Commerc
10	2460200000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Household Products;Miscellaneous Non-industrial: Consumer and Commerc

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
10	2460400000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Automotive Aftermarket Products;Miscellaneous Non-industrial: Consumer and Commerc
10	2460500000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Coatings and Related Products;Miscellaneous Non-industrial: Consumer and Commerc
10	2460600000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Adhesives and Sealants;Miscellaneous Non-industrial: Consumer and Commerc
10	2460800000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All FIFRA Related Products;Miscellaneous Non-industrial: Consumer and Commerc
10	2460900000	VOC	14.20	14.20	14.20	Total: All Solvent Types;Miscellaneous Products (Not Otherwise Covered);Miscellaneous Non-industrial: Consumer and Commerc
11	2460100000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Personal Care Products;Miscellaneous Non-industrial: Consumer and Commerc
11	2460200000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Household Products;Miscellaneous Non-industrial: Consumer and Commerc
11	2460400000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Automotive Aftermarket Products;Miscellaneous Non-industrial: Consumer and Commerc
11	2460500000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Coatings and Related Products;Miscellaneous Non-industrial: Consumer and Commerc
11	2460600000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Adhesives and Sealants;Miscellaneous Non-industrial: Consumer and Commerc
11	2460800000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All FIFRA Related Products;Miscellaneous Non-industrial: Consumer and Commerc
11	2460900000	VOC	14.20	14.20	14.20	Total: All Solvent Types;Miscellaneous Products (Not Otherwise Covered);Miscellaneous Non-industrial: Consumer and Commerc
23	2460100000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Personal Care Products;Miscellaneous Non-industrial: Consumer and Commerc
23	2460200000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Household Products;Miscellaneous Non-industrial: Consumer and Commerc
23	2460400000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Automotive Aftermarket Products;Miscellaneous Non-industrial: Consumer and Commerc
23	2460500000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Coatings and Related Products;Miscellaneous Non-industrial: Consumer and Commerc
23	2460600000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Adhesives and Sealants;Miscellaneous Non-industrial: Consumer and Commerc

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
23	2460800000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All FIFRA Related Products;Miscellaneous Non-industrial: Consumer and Commerc
23	2460900000	VOC	14.20	14.20	14.20	Total: All Solvent Types;Miscellaneous Products (Not Otherwise Covered);Miscellaneous Non-industrial: Consumer and Commerc
24	2465000000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Products/Processes;Miscellaneous Non-industrial: Consumer
25	2460000000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Processes;Miscellaneous Non-industrial: Consumer and Commerc
33	2460000000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Processes;Miscellaneous Non-industrial: Consumer and Commerc
34	2460100000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Personal Care Products;Miscellaneous Non-industrial: Consumer and Commerc
34	2460200000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Household Products;Miscellaneous Non-industrial: Consumer and Commerc
34	2460400000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Automotive Aftermarket Products;Miscellaneous Non-industrial: Consumer and Commerc
34	2460500000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Coatings and Related Products;Miscellaneous Non-industrial: Consumer and Commerc
34	2460600000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Adhesives and Sealants;Miscellaneous Non-industrial: Consumer and Commerc
34	2460800000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All FIFRA Related Products;Miscellaneous Non-industrial: Consumer and Commerc
34	2460900000	VOC	14.20	14.20	14.20	Total: All Solvent Types;Miscellaneous Products (Not Otherwise Covered);Miscellaneous Non-industrial: Consumer and Commerc
34	2465000000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Products/Processes;Miscellaneous Non-industrial: Consumer
36	2460000000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Processes;Miscellaneous Non-industrial: Consumer and Commerc
42	2465000000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Products/Processes;Miscellaneous Non-industrial: Consumer
44	2460100000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Personal Care Products;Miscellaneous Non-industrial: Consumer and Commerc
44	2460200000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Household Products;Miscellaneous Non-industrial: Consumer and Commerc
44	2460400000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Automotive Aftermarket Products;Miscellaneous Non-industrial: Consumer and Commerc

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
44	2460500000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Coatings and Related Products;Miscellaneous Non-industrial: Consumer and Commerc
44	2460600000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Adhesives and Sealants;Miscellaneous Non-industrial: Consumer and Commerc
44	2460800000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All FIFRA Related Products;Miscellaneous Non-industrial: Consumer and Commerc
44	2460900000	VOC	14.20	14.20	14.20	Total: All Solvent Types;Miscellaneous Products (Not Otherwise Covered);Miscellaneous Non-industrial: Consumer and Commerc
50	2460100000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Personal Care Products;Miscellaneous Non-industrial: Consumer and Commerc
50	2460200000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Household Products;Miscellaneous Non-industrial: Consumer and Commerc
50	2460400000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Automotive Aftermarket Products;Miscellaneous Non-industrial: Consumer and Commerc
50	2460500000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Coatings and Related Products;Miscellaneous Non-industrial: Consumer and Commerc
50	2460600000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All Adhesives and Sealants;Miscellaneous Non-industrial: Consumer and Commerc
50	2460800000	VOC	14.20	14.20	14.20	Total: All Solvent Types;All FIFRA Related Products;Miscellaneous Non-industrial: Consumer and Commerc
50	2460900000	VOC	14.20	14.20	14.20	Total: All Solvent Types;Miscellaneous Products (Not Otherwise Covered);Miscellaneous Non-industrial: Consumer and Commerc
Mobile Equipment Repair and Refinishing						
09	2401005000	VOC	38.00	38.00	38.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
10	2401005500	VOC	38.00	38.00	38.00	Surface Preparation Solvents;Auto Refinishing: SIC 7532;Surface Coating
10	2401005600	VOC	38.00	38.00	38.00	Primers;Auto Refinishing: SIC 7532;Surface Coating
10	2401005700	VOC	38.00	38.00	38.00	Top Coats;Auto Refinishing: SIC 7532;Surface Coating
10	2401005800	VOC	38.00	38.00	38.00	Clean-up Solvents;Auto Refinishing: SIC 7532;Surface Coating
11	2401005000	VOC	38.00	38.00	38.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
23	2401005000	VOC	38.00	38.00	38.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
24	2401005000	VOC	0.00	0.00	0.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
25	2401005000	VOC	0.00	0.00	0.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
33	2401005000	VOC	38.00	38.00	38.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
34	2401005000	VOC	19.00	19.00	19.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
36	2401005000	VOC	38.00	38.00	38.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
42	2401005000	VOC	0.00	0.00	0.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
44	2401005000	VOC	38.00	38.00	38.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
50	2401005000	VOC	38.00	38.00	38.00	Total: All Solvent Types;Auto Refinishing: SIC 7532;Surface Coating
Solvent Cleaning Operations						
09	2415000000	VOC	66.00	66.00	66.00	Total: All Solvent Types;All Processes/All Industries;Degreasing
23	2415000000	VOC	66.00	66.00	66.00	Total: All Solvent Types;All Processes/All Industries;Degreasing
23	2415030000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Electronic and Other Elec. (SIC 36): All Processes;Degreasing
23	2415045000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Miscellaneous Manufacturing (SIC 39): All Processe;Degreasing
23	2415065000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Auto Repair Services (SIC 75): All Processes;Degreasing
23	2415300000	VOC	66.00	66.00	66.00	Total: All Solvent Types;All Industries: Cold Cleaning;Degreasing
25	2415000000	VOC	7.00	7.00	7.00	Total: All Solvent Types;All Industries: Cold Cleaning;Degreasing
33	2415000000	VOC	66.00	66.00	66.00	Total: All Solvent Types;All Industries: Cold Cleaning;Degreasing
34	2415000000	VOC	17.00	17.00	17.00	Total: All Solvent Types;All Processes/All Industries;Degreasing
36	2415020000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Fabricated Metal Products (SIC 34): All Processes;Degreasing
36	2415025000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Industrial Machinery and Equipment (SIC 35): All P;Degreasing
36	2415035000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Transportation Equipment (SIC 37): All Processes;Degreasing
36	2415045000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Miscellaneous Manufacturing (SIC 39): All Processe;Degreasing
36	2415055000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Automotive Dealers (SIC 55): All Processes;Degreasing
36	2415060000	VOC	66.00	66.00	66.00	Total: All Solvent Types;Miscellaneous Repair Services (SIC 76): All Proces;Degreasing
44	2415000000	VOC	66.00	66.00	66.00	Total: All Solvent Types;All Processes/All Industries;Degreasing

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
Portable Fuel Containers						
09	2501060300	VOC	41.3	63.8	75.0	Total;Portable Containers: Residential & Com;Petroleum and Petroleum Product Storage
10	2501011010	VOC	41.3	63.8	75.0	Vapor Losses;Portable Containers: Residential;Petroleum and Petroleum Product Storage
10	2501011011	VOC	41.3	63.8	75.0	Permeation;Portable Containers: Residential;Petroleum and Petroleum Product Storage
10	2501011012	VOC	41.3	63.8	75.0	Diurnal;Portable Containers: Residential;Petroleum and Petroleum Product Storage
10	2501011015	VOC	41.3	63.8	75.0	Spillage;Portable Containers: Residential;Petroleum and Petroleum Product Storage
10	2501011016	VOC	41.3	63.8	75.0	Transport;Portable Containers: Residential;Petroleum and Petroleum Product Storage
10	2501012010	VOC	41.3	63.8	75.0	Vapor Losses;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
10	2501012011	VOC	41.3	63.8	75.0	Permeation;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
10	2501012012	VOC	41.3	63.8	75.0	Diurnal;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
10	2501012015	VOC	41.3	63.8	75.0	Spillage;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
10	2501012016	VOC	41.3	63.8	75.0	Transport;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
11	2501011011	VOC	41.3	63.8	75.0	Permeation;Portable Containers: Residential;Petroleum and Petroleum Product Storage
11	2501011012	VOC	41.3	63.8	75.0	Diurnal;Portable Containers: Residential;Petroleum and Petroleum Product Storage
11	2501011016	VOC	41.3	63.8	75.0	Transport;Portable Containers: Residential;Petroleum and Petroleum Product Storage
11	2501012011	VOC	41.3	63.8	75.0	Permeation;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
11	2501012012	VOC	41.3	63.8	75.0	Diurnal;Portable Containers: Commercial;Petroleum and Petroleum Product

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
						Storage
11	2501012016	VOC	41.3	63.8	75.0	Transport;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
23	2501060300	VOC	41.3	63.8	75.0	Total;Portable Containers: Residential & Com;Petroleum and Petroleum Product Storage
24	2501011011	VOC	48.8	71.3	75.0	Permeation;Portable Containers: Residential;Petroleum and Petroleum Product Storage
24	2501011012	VOC	48.8	71.3	75.0	Diurnal;Portable Containers: Residential;Petroleum and Petroleum Product Storage
24	2501011016	VOC	48.8	71.3	75.0	Transport;Portable Containers: Residential;Petroleum and Petroleum Product Storage
24	2501012011	VOC	48.8	71.3	75.0	Permeation;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
24	2501012012	VOC	48.8	71.3	75.0	Diurnal;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
24	2501012016	VOC	48.8	71.3	75.0	Transport;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
25	2501011000	VOC	18.8	41.3	75.0	;;
25	2501012000	VOC	18.8	41.3	75.0	;;
33	2501060300	VOC	26.3	48.8	75.0	Total;Portable Containers: Residential & Com;Petroleum and Petroleum Product Storage
34	2501000120	VOC	33.8	56.3	75.0	Gasoline;All Storage Types: Breathing Loss;Petroleum and Petroleum Product Storage
36	2501011011	VOC	48.8	71.3	75.0	Permeation;Portable Containers: Residential;Petroleum and Petroleum Product Storage
36	2501011012	VOC	48.8	71.3	75.0	Diurnal;Portable Containers: Residential;Petroleum and Petroleum Product Storage
36	2501011016	VOC	48.8	71.3	75.0	Transport;Portable Containers: Residential;Petroleum and Petroleum Product Storage
36	2501012011	VOC	48.8	71.3	75.0	Permeation;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
36	2501012012	VOC	48.8	71.3	75.0	Diurnal;Portable Containers: Commercial;Petroleum and Petroleum Product Storage

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
36	2501012016	VOC	48.8	71.3	75.0	Transport;Portable Containers: Commercial;Petroleum and Petroleum Product Storage
42	2501060300	VOC	48.8	71.3	75.0	Total;Portable Containers: Residential & Com;Petroleum and Petroleum Product Storage
44	2501060300	VOC	18.8	41.3	75.0	Total;Portable Containers: Residential & Com;Petroleum and Petroleum Product Storage
50	2501060300	VOC	18.8	41.3	75.0	Total;Portable Containers: Residential & Com;Petroleum and Petroleum Product Storage

Table D-2 Area Source Control Factors for On-Board Vapor Recovery

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
09001	2501060101	VOC	23.81	28.57	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09001	2501060102	VOC	23.81	28.57	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
09003	2501060101	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09003	2501060102	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
09005	2501060101	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09005	2501060102	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
09007	2501060101	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09007	2501060102	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
09009	2501060101	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09009	2501060102	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
09011	2501060101	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09011	2501060102	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
09013	2501060101	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09013	2501060102	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
09015	2501060101	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
09015	2501060102	VOC	23.81	33.33	38.10	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
10001	2501060100	VOC	40.54	48.65	56.76	Stage 2: Total;Gasoline Service Stations
10003	2501060100	VOC	40.54	48.65	56.76	Stage 2: Total;Gasoline Service Stations
10005	2501060100	VOC	40.54	48.65	56.76	Stage 2: Total;Gasoline Service Stations
11001	2501060100	VOC	40.54	48.65	56.76	Stage 2: Total;Gasoline Service Stations
23001	2501060100	VOC	53.68	67.65	79.41	Stage 2: Total;Gasoline Service Stations
23003	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23005	2501060100	VOC	28.57	33.33	42.86	Stage 2: Total;Gasoline Service Stations
23007	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23009	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23011	2501060100	VOC	53.68	67.65	79.41	Stage 2: Total;Gasoline Service Stations
23013	2501060100	VOC	53.68	67.65	79.41	Stage 2: Total;Gasoline Service Stations
23015	2501060100	VOC	53.68	67.65	79.41	Stage 2: Total;Gasoline Service Stations
23017	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23019	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23021	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23023	2501060100	VOC	28.57	33.33	42.86	Stage 2: Total;Gasoline Service Stations
23025	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23027	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23029	2501060100	VOC	53.80	68.35	79.75	Stage 2: Total;Gasoline Service Stations
23031	2501060100	VOC	28.57	33.33	42.86	Stage 2: Total;Gasoline Service Stations
24001	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
24003	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24005	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24009	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24011	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24013	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24015	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24017	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24019	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24021	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24023	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24025	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24027	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24029	2501060100	VOC	53.53	68.24	80.00	Stage 2: Total;Gasoline Service Stations
24031	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24033	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
24035	2501060100	VOC	53.53	68.24	80.00	Stage 2: Total;Gasoline Service Stations
24037	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24039	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24041	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24043	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24045	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24047	2501060100	VOC	54.24	68.36	80.23	Stage 2: Total;Gasoline Service Stations
24510	2501060100	VOC	26.09	34.78	43.48	Stage 2: Total;Gasoline Service Stations
25001	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25003	2501060102	VOC	38.24	50.00	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25005	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25007	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25009	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25011	2501060102	VOC	38.24	50.00	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25013	2501060102	VOC	38.24	50.00	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25015	2501060102	VOC	38.24	50.00	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25017	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25019	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25021	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25023	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25025	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
25027	2501060102	VOC	38.24	47.06	55.88	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
33001	2501060100	VOC	53.75	68.13	80.00	Stage 2: Total;Gasoline Service Stations
33003	2501060100	VOC	53.75	68.13	80.00	Stage 2: Total;Gasoline Service Stations
33005	2501060100	VOC	53.75	68.13	80.00	Stage 2: Total;Gasoline Service Stations
33007	2501060100	VOC	53.75	68.13	80.00	Stage 2: Total;Gasoline Service Stations

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
33009	2501060100	VOC	53.75	68.13	80.00	Stage 2: Total;Gasoline Service Stations
33011	2501060100	VOC	38.24	50.00	55.88	Stage 2: Total;Gasoline Service Stations
33013	2501060100	VOC	38.24	50.00	55.88	Stage 2: Total;Gasoline Service Stations
33015	2501060100	VOC	38.24	50.00	55.88	Stage 2: Total;Gasoline Service Stations
33017	2501060100	VOC	38.24	50.00	55.88	Stage 2: Total;Gasoline Service Stations
33019	2501060100	VOC	53.75	68.13	80.00	Stage 2: Total;Gasoline Service Stations
34001	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34003	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34005	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34007	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34009	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34011	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34013	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34015	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34017	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34019	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34021	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34023	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34025	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34027	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34029	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34031	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34033	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34035	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34037	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34039	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
34041	2501060100	VOC	38.89	47.22	58.33	Stage 2: Total;Gasoline Service Stations
36001	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36003	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36005	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36007	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36009	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36011	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36013	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36015	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36017	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36019	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36021	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36023	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36025	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36027	2501060100	VOC	53.80	67.72	79.75	Stage 2: Total;Gasoline Service Stations
36029	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36031	2501060100	VOC	53.57	67.86	79.76	Stage 2: Total;Gasoline Service Stations
36033	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36035	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36037	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36039	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36041	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36043	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36045	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
36047	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36049	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36051	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36053	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36055	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36057	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36059	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36061	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36063	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36065	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36067	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36069	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36071	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36073	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36075	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36077	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36079	2501060100	VOC	53.80	67.72	79.75	Stage 2: Total;Gasoline Service Stations
36081	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36083	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36085	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36087	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36089	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36091	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36093	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36095	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36097	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36099	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36101	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36103	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36105	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36107	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36109	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36111	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36113	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36115	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36117	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36119	2501060100	VOC	34.48	41.38	51.72	Stage 2: Total;Gasoline Service Stations
36121	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
36123	2501060100	VOC	54.29	68.57	80.00	Stage 2: Total;Gasoline Service Stations
42001	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42003	2501060102	VOC	26.09	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42005	2501060102	VOC	26.09	34.78	39.13	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42007	2501060102	VOC	26.09	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42009	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42011	2501060101	VOC	26.09	34.78	39.13	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42013	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
						Stations
42015	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42017	2501060102	VOC	30.43	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42019	2501060102	VOC	26.09	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42021	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42023	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42025	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42027	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42029	2501060102	VOC	30.43	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42031	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42033	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42035	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42037	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42039	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42041	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42043	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42045	2501060102	VOC	30.43	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42047	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42049	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42051	2501060102	VOC	26.09	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42053	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42055	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42057	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42059	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42061	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42063	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42065	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42067	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42069	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42071	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42073	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
						Stations
42075	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42077	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42079	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42081	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42083	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42085	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42087	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42089	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42091	2501060102	VOC	30.43	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42093	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42095	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42097	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42099	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42101	2501060102	VOC	30.43	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42103	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42105	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42107	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42109	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42111	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42113	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42115	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42117	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42119	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42121	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42123	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42125	2501060102	VOC	26.09	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42127	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42129	2501060102	VOC	26.09	34.78	43.48	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
42131	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
42133	2501060101	VOC	53.98	68.75	80.11	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
						Stations
44001	2501060000	VOC	38.24	50.00	55.88	Total: All Gasoline/All Processes;Gasoline Service Stations
44003	2501060000	VOC	38.24	50.00	55.88	Total: All Gasoline/All Processes;Gasoline Service Stations
44005	2501060000	VOC	38.24	50.00	55.88	Total: All Gasoline/All Processes;Gasoline Service Stations
44007	2501060000	VOC	38.24	50.00	55.88	Total: All Gasoline/All Processes;Gasoline Service Stations
44009	2501060000	VOC	38.24	50.00	55.88	Total: All Gasoline/All Processes;Gasoline Service Stations
50001	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50001	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50001	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50003	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50003	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50003	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50005	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50005	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50005	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50007	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50007	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50007	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50009	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50009	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50009	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50011	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50011	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50011	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50013	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50013	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50013	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50015	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50015	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50015	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50017	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50017	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50017	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50019	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50019	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50019	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50021	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service

FIPS	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018	SCC Description
						Stations
50021	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50021	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50023	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50023	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50023	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50025	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50025	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50025	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations
50027	2501060101	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Uncontrolled;Gasoline Service Stations
50027	2501060102	VOC	37.14	48.57	57.14	Stage 2: Displacement Loss/Controlled;Gasoline Service Stations
50027	2501060103	VOC	37.14	48.57	57.14	Stage 2: Spillage;Gasoline Service Stations

Table D-3 Area Source Growth/Control Factors for Residential Wood Combustion

SCC	SCC Description	Assumptions	Growth and Control Factor		
			2002-2009	2002-2012	2002-2018
2104008000	Total: Woodstoves and Fireplaces	1 - 0.01056*(Year-2002) (Assumes 19.4% fireplaces 71.6%old woodstoves 9.1%new woodstoves)	0.926	0.894	0.831
2104008001	Fireplaces: General	Increase 1%/yr: 1 + 0.01*(Year-2002)	1.070	1.100	1.160
2104008002	Fireplaces: Insert; non-EPA certified	Decrease 2%/yr: 1 - 0.02*(Year-2002)	0.860	0.800	0.680
2104008003	Fireplaces: Insert; EPA certified; non-catalytic	Increase 2%/yr: 1 + 0.02*(Year-2002)	1.140	1.200	1.320
2104008004	Fireplaces: Insert; EPA certified; catalytic	Increase 2%/yr (same as 2104008003)	1.140	1.200	1.320
2104008010	Woodstoves: General	Decrease 2%/yr (same as 2104008002)	0.860	0.800	0.680
2104008030	Catalytic Woodstoves: General	Increase 2%/yr (same as 2104008003)	1.140	1.200	1.320
2104008050	Non-catalytic Woodstoves: EPA certified	Increase 2%/yr (same as 2104008003)	1.140	1.200	1.320
2104008051	Non-catalytic Woodstoves: Non-EPA certified	Decrease 2%/yr (same as 2104008002)	0.860	0.800	0.680
2104008052	Non-catalytic Woodstoves: Low Emitting	Increase 2%/yr (same as 2104008003)	1.140	1.200	1.320
2104008053	Non-catalytic Woodstoves: Pellet Fired	Increase 2%/yr (same as 2104008003)	1.140	1.200	1.320

Table E-1 NonEGU BOTW Control Factors for Adhesives and Sealants Application, Asphalt Production Plants, Cement Kilns, and Glass/Fiberglass Furnaces

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
Control Measure: Adhesives and Sealants Application								
09003	6484	R0131	01	40200701	VOC	64.40	64.40	64.40
09003	6484	R0132	01	40200701	VOC	64.40	64.40	64.40
09015	0647	P0085	01	40200701	VOC	64.40	64.40	64.40
10001	1000100004	003	2	40200701	VOC	64.40	64.40	64.40
10001	1000100004	005	2	40200701	VOC	64.40	64.40	64.40
10001	1000100004	005	3	40200701	VOC	64.40	64.40	64.40
10001	1000100004	005	4	40200701	VOC	64.40	64.40	64.40
10001	1000100004	005	5	40200701	VOC	64.40	64.40	64.40
10003	1000300365	002	2	40200706	VOC	64.40	64.40	64.40
10003	1000300365	002	1	40200710	VOC	64.40	64.40	64.40
23001	2300100076	003	2	40200701	VOC	64.40	64.40	64.40
24003	003-0250	232	01F232	40200701	VOC	64.40	64.40	64.40
24003	003-0250	232	01S232	40200701	VOC	64.40	64.40	64.40
24005	005-2407	17	01F17	40200701	VOC	64.40	64.40	64.40
24005	005-2407	17	01S17	40200701	VOC	64.40	64.40	64.40
24025	025-0006	45	01F45	40200710	VOC	64.40	64.40	64.40
24025	025-0006	45	01S45	40200710	VOC	64.40	64.40	64.40
24025	025-0423	5	01F5	40200701	VOC	64.40	64.40	64.40
24025	025-0423	5	01S5	40200701	VOC	64.40	64.40	64.40
24025	025-0423	6	01F6	40200701	VOC	64.40	64.40	64.40
24025	025-0423	6	01S6	40200701	VOC	64.40	64.40	64.40
24025	025-0423	7	01F7	40200701	VOC	64.40	64.40	64.40
24025	025-0423	7	01S7	40200701	VOC	64.40	64.40	64.40
24045	045-0082	12	01F12	40200710	VOC	64.40	64.40	64.40
24045	045-0082	12	01S12	40200710	VOC	64.40	64.40	64.40
25005	1200077	12	0108	40200701	VOC	64.40	64.40	64.40
25005	1200100	23	0111	40200701	VOC	64.40	64.40	64.40
25005	1200100	26	0114	40200701	VOC	64.40	64.40	64.40
25005	1200100	28	0116	40200701	VOC	64.40	64.40	64.40
25005	1200101	08	0107	40200701	VOC	64.40	64.40	64.40
25005	1200101	09	0108	40200706	VOC	64.40	64.40	64.40
25005	1200101	10	0109	40200701	VOC	64.40	64.40	64.40
25005	1200101	11	0110	40200701	VOC	64.40	64.40	64.40
25005	1200101	12	0111	40200701	VOC	64.40	64.40	64.40
25005	1200183	07	0203	40200701	VOC	64.40	64.40	64.40
25005	1200388	04	0104	40200701	VOC	64.40	64.40	64.40
25005	1200388	05	0105	40200701	VOC	64.40	64.40	64.40
25005	1200388	05	0205	40200701	VOC	64.40	64.40	64.40
25005	1200509	04	0104	40200701	VOC	64.40	64.40	64.40
25005	1200585	02	0102	40200710	VOC	64.40	64.40	64.40
25005	1200673	07	0107	40200710	VOC	64.40	64.40	64.40

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
25005	1200707	08	0106	40200710	VOC	64.40	64.40	64.40
25005	1200851	11	0110	40200710	VOC	64.40	64.40	64.40
25009	1190683	03	0103	40200706	VOC	64.40	64.40	64.40
25009	1190690	09	0108	40200710	VOC	64.40	64.40	64.40
25009	1210026	15	0115	40200710	VOC	64.40	64.40	64.40
25009	1210046	01	0101	40200706	VOC	64.40	64.40	64.40
25009	1210083	05	0104	40200710	VOC	64.40	64.40	64.40
25009	1210093	09	0209	40200701	VOC	64.40	64.40	64.40
25009	1210110	01	0101	40200701	VOC	64.40	64.40	64.40
25009	1210212	30	0321	40200706	VOC	64.40	64.40	64.40
25009	1210212	30	0721	40200706	VOC	64.40	64.40	64.40
25009	1210212	32	0322	40200706	VOC	64.40	64.40	64.40
25009	1210212	32	0622	40200706	VOC	64.40	64.40	64.40
25009	1210212	32	0922	40200706	VOC	64.40	64.40	64.40
25009	1210276	03	0102	40200701	VOC	64.40	64.40	64.40
25009	1210332	01	0101	40200701	VOC	64.40	64.40	64.40
25009	1210332	02	0102	40200701	VOC	64.40	64.40	64.40
25009	1210332	03	0103	40200701	VOC	64.40	64.40	64.40
25009	1210341	10	0110	40200710	VOC	64.40	64.40	64.40
25009	1211013	07	0105	40200710	VOC	64.40	64.40	64.40
25009	1211013	08	0306	40200710	VOC	64.40	64.40	64.40
25009	1211013	33	0331	40200701	VOC	64.40	64.40	64.40
25009	1211013	72	0259	40200710	VOC	64.40	64.40	64.40
25009	1211013	89	0253	40200710	VOC	64.40	64.40	64.40
25013	0420145	16	0112	40200710	VOC	64.40	64.40	64.40
25013	0420213	01	0201	40200701	VOC	64.40	64.40	64.40
25013	0420260	02	0102	40200710	VOC	64.40	64.40	64.40
25013	0420265	06	0105	40200701	VOC	64.40	64.40	64.40
25013	0420561	01	0101	40200701	VOC	64.40	64.40	64.40
25013	0420798	05	0105	40200710	VOC	64.40	64.40	64.40
25013	0420821	10	0106	40200701	VOC	64.40	64.40	64.40
25015	0420558	01	0101	40200710	VOC	64.40	64.40	64.40
25017	1180795	02	0102	40200706	VOC	64.40	64.40	64.40
25017	1180795	03	0103	40200706	VOC	64.40	64.40	64.40
25017	1180795	04	0104	40200706	VOC	64.40	64.40	64.40
25017	1180795	05	0105	40200706	VOC	64.40	64.40	64.40
25017	1180795	06	0106	40200706	VOC	64.40	64.40	64.40
25017	1180795	07	0107	40200701	VOC	64.40	64.40	64.40
25017	1180795	08	0108	40200701	VOC	64.40	64.40	64.40
25017	1180795	09	0109	40200701	VOC	64.40	64.40	64.40
25017	1190355	05	0101	40200706	VOC	64.40	64.40	64.40
25017	1190424	04	0104	40200701	VOC	64.40	64.40	64.40
25017	1190424	08	0106	40200701	VOC	64.40	64.40	64.40
25017	1190424	11	0107	40200701	VOC	64.40	64.40	64.40
25017	1190424	20	0110	40200701	VOC	64.40	64.40	64.40
25017	1190424	24	0111	40200701	VOC	64.40	64.40	64.40
25017	1190424	28	0112	40200701	VOC	64.40	64.40	64.40

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
25017	1190424	32	0213	40200701	VOC	64.40	64.40	64.40
25017	1190424	37	0117	40200701	VOC	64.40	64.40	64.40
25017	1190429	06	0106	40200710	VOC	64.40	64.40	64.40
25017	1190560	02	0101	40200710	VOC	64.40	64.40	64.40
25017	1190560	23	0106	40200710	VOC	64.40	64.40	64.40
25017	1190585	08	0104	40200706	VOC	64.40	64.40	64.40
25017	1190585	17	0106	40200710	VOC	64.40	64.40	64.40
25017	1190692	09	0107	40200701	VOC	64.40	64.40	64.40
25017	1190692	10	0108	40200701	VOC	64.40	64.40	64.40
25017	1190692	11	0108	40200701	VOC	64.40	64.40	64.40
25017	1190953	04	0104	40200710	VOC	64.40	64.40	64.40
25017	1190999	11	0111	40200710	VOC	64.40	64.40	64.40
25017	1190999	11	0211	40200710	VOC	64.40	64.40	64.40
25017	1190999	13	0313	40200710	VOC	64.40	64.40	64.40
25017	1191104	03	0103	40200710	VOC	64.40	64.40	64.40
25017	1191192	05	0104	40200701	VOC	64.40	64.40	64.40
25017	1191296	26	0116	40200701	VOC	64.40	64.40	64.40
25017	1191296	27	0117	40200701	VOC	64.40	64.40	64.40
25017	1191471	04	0103	40200710	VOC	64.40	64.40	64.40
25017	1191564	08	0108	40200710	VOC	64.40	64.40	64.40
25017	1191844	53	0135	40200710	VOC	64.40	64.40	64.40
25017	1191844	53	0335	40200710	VOC	64.40	64.40	64.40
25017	1192051	12	0107	40200710	VOC	64.40	64.40	64.40
25017	1192051	26	0115	40200710	VOC	64.40	64.40	64.40
25017	1210036	03	0103	40200701	VOC	64.40	64.40	64.40
25017	1210036	05	0104	40200710	VOC	64.40	64.40	64.40
25017	1210036	07	0105	40200701	VOC	64.40	64.40	64.40
25017	1210373	01	0101	40200701	VOC	64.40	64.40	64.40
25017	1210373	02	0102	40200701	VOC	64.40	64.40	64.40
25017	1210373	03	0103	40200701	VOC	64.40	64.40	64.40
25017	1210373	04	0104	40200701	VOC	64.40	64.40	64.40
25017	1210373	04	0204	40200701	VOC	64.40	64.40	64.40
25017	1210373	05	0105	40200701	VOC	64.40	64.40	64.40
25017	1210373	05	0205	40200701	VOC	64.40	64.40	64.40
25017	1210373	06	0106	40200701	VOC	64.40	64.40	64.40
25017	1210373	06	0206	40200701	VOC	64.40	64.40	64.40
25017	1210373	09	0109	40200701	VOC	64.40	64.40	64.40
25017	1210373	10	0110	40200701	VOC	64.40	64.40	64.40
25017	1210912	02	0202	40200710	VOC	64.40	64.40	64.40
25021	1190319	04	0103	40200710	VOC	64.40	64.40	64.40
25021	1190319	11	0111	40200710	VOC	64.40	64.40	64.40
25021	1190569	23	0215	40200710	VOC	64.40	64.40	64.40
25021	1192106	03	0103	40200710	VOC	64.40	64.40	64.40
25021	1192121	07	0107	40200701	VOC	64.40	64.40	64.40
25021	1192131	03	0103	40200710	VOC	64.40	64.40	64.40
25021	1192491	07	0107	40200701	VOC	64.40	64.40	64.40
25021	1192491	08	0108	40200701	VOC	64.40	64.40	64.40

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
25021	1200125	55	0146	40200710	VOC	64.40	64.40	64.40
25021	1200125	56	0147	40200710	VOC	64.40	64.40	64.40
25021	1200127	10	0209	40200710	VOC	64.40	64.40	64.40
25021	1200228	04	0203	40200710	VOC	64.40	64.40	64.40
25021	1200452	04	0102	40200701	VOC	64.40	64.40	64.40
25023	1192198	11	0107	40200710	VOC	64.40	64.40	64.40
25023	1192198	12	0108	40200710	VOC	64.40	64.40	64.40
25023	1192198	19	0109	40200710	VOC	64.40	64.40	64.40
25023	1192198	23	0109	40200710	VOC	64.40	64.40	64.40
25023	1192198	25	0109	40200710	VOC	64.40	64.40	64.40
25023	1192198	26	0109	40200710	VOC	64.40	64.40	64.40
25023	1192203	01	0101	40200710	VOC	64.40	64.40	64.40
25023	1192237	08	0102	40200710	VOC	64.40	64.40	64.40
25023	1192436	09	0105	40200701	VOC	64.40	64.40	64.40
25023	1200177	05	0105	40200701	VOC	64.40	64.40	64.40
25023	1200637	04	0104	40200710	VOC	64.40	64.40	64.40
25023	1200637	07	0105	40200707	VOC	64.40	64.40	64.40
25025	1191397	05	0106	40200701	VOC	64.40	64.40	64.40
25025	1191397	06	0107	40200701	VOC	64.40	64.40	64.40
25027	1180025	01	0301	40200710	VOC	64.40	64.40	64.40
25027	1180115	17	0209	40200701	VOC	64.40	64.40	64.40
25027	1180115	25	0311	40200710	VOC	64.40	64.40	64.40
25027	1180115	36	0117	40200710	VOC	64.40	64.40	64.40
25027	1180115	39	0118	40200701	VOC	64.40	64.40	64.40
25027	1180115	77	0251	40200710	VOC	64.40	64.40	64.40
25027	1180225	04	0104	40200710	VOC	64.40	64.40	64.40
25027	1180265	05	0205	40200701	VOC	64.40	64.40	64.40
25027	1180310	03	0203	40200701	VOC	64.40	64.40	64.40
25027	1180310	03	0303	40200701	VOC	64.40	64.40	64.40
25027	1180505	07	0107	40200701	VOC	64.40	64.40	64.40
25027	1180505	23	0123	40200710	VOC	64.40	64.40	64.40
25027	1180998	27	0111	40200710	VOC	64.40	64.40	64.40
25027	1180998	30	0113	40200701	VOC	64.40	64.40	64.40
25027	1200856	12	0110	40200701	VOC	64.40	64.40	64.40
25027	1200856	13	0111	40200701	VOC	64.40	64.40	64.40
33011	3301100076	004	1	40200701	VOC	64.40	64.40	64.40
33011	3301100076	005	1	40200701	VOC	64.40	64.40	64.40
33011	3301100076	009	1	40200701	VOC	64.40	64.40	64.40
33017	3301700010	001	1	40200701	VOC	64.40	64.40	64.40
33017	3301700010	002	1	40200701	VOC	64.40	64.40	64.40
36063	9290900018	ADHES1	HM1FP	40200701	VOC	64.40	64.40	64.40
36069	8329900028	000005	WABFP	40200701	VOC	64.40	64.40	64.40
36103	1473000001	EI0001	E10EI	40200701	VOC	64.40	64.40	64.40
36103	1473000001	U00002	103FP	40200706	VOC	64.40	64.40	64.40
36115	5533000016	U00011	SL2FP	40200710	VOC	64.40	64.40	64.40
36117	8543600007	1MLDRB	SC3FP	40200701	VOC	64.40	64.40	64.40
36117	8543600007	2KLZRS	SC2FP	40200701	VOC	64.40	64.40	64.40

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
42001	420010009	103	1	40200706	VOC	64.40	64.40	64.40
42013	420130480	101	2	40200701	VOC	64.40	64.40	64.40
42017	420171041	101	1	40200701	VOC	64.40	64.40	64.40
42019	420190029	104	1	40200701	VOC	64.40	64.40	64.40
42019	420190029	105	1	40200701	VOC	64.40	64.40	64.40
42019	420190090	102	1	40200701	VOC	64.40	64.40	64.40
42019	420190090	102	2	40200701	VOC	64.40	64.40	64.40
42019	420190090	102	3	40200701	VOC	64.40	64.40	64.40
42019	420190090	102	4	40200701	VOC	64.40	64.40	64.40
42019	420190090	102	5	40200701	VOC	64.40	64.40	64.40
42019	420190090	102	6	40200701	VOC	64.40	64.40	64.40
42035	420350429	P105	1	40200710	VOC	64.40	64.40	64.40
42035	420350429	P106	1	40200710	VOC	64.40	64.40	64.40
42039	420390013	106	1	40200707	VOC	64.40	64.40	64.40
42039	420390014	102	1	40200701	VOC	64.40	64.40	64.40
42039	420390014	103	1	40200701	VOC	64.40	64.40	64.40
42039	420390014	104	1	40200701	VOC	64.40	64.40	64.40
42039	420390014	105	1	40200701	VOC	64.40	64.40	64.40
42045	420450954	121	1	40200701	VOC	64.40	64.40	64.40
42055	420550022	100	1	40200706	VOC	64.40	64.40	64.40
42055	420550022	101	1	40200706	VOC	64.40	64.40	64.40
42061	420610016	104	1	40200701	VOC	64.40	64.40	64.40
42061	420610016	105	1	40200701	VOC	64.40	64.40	64.40
42061	420610032	101	2	40200701	VOC	64.40	64.40	64.40
42061	420610032	101	4	40200701	VOC	64.40	64.40	64.40
42061	420610032	101	6	40200701	VOC	64.40	64.40	64.40
42061	420610032	102	2	40200701	VOC	64.40	64.40	64.40
42061	420610032	102	4	40200701	VOC	64.40	64.40	64.40
42061	420610032	102	6	40200701	VOC	64.40	64.40	64.40
42061	420610032	103	2	40200701	VOC	64.40	64.40	64.40
42061	420610032	103	4	40200701	VOC	64.40	64.40	64.40
42069	420690023	107	1	40200701	VOC	64.40	64.40	64.40
42069	420690023	108	1	40200701	VOC	64.40	64.40	64.40
42071	420710802	102	1	40200710	VOC	64.40	64.40	64.40
42071	420710804	102	1	40200710	VOC	64.40	64.40	64.40
42077	420770071	101	1	40200710	VOC	64.40	64.40	64.40
42077	420770071	101	2	40200710	VOC	64.40	64.40	64.40
42077	420770071	102	1	40200710	VOC	64.40	64.40	64.40
42077	420770071	102	2	40200710	VOC	64.40	64.40	64.40
42077	420770071	103	1	40200710	VOC	64.40	64.40	64.40
42077	420770071	104	1	40200710	VOC	64.40	64.40	64.40
42077	420770071	105	1	40200710	VOC	64.40	64.40	64.40
42081	420810039	113	1	40200710	VOC	64.40	64.40	64.40
42081	420810559	P104	1	40200710	VOC	64.40	64.40	64.40
42091	420910826	002	1	40200701	VOC	64.40	64.40	64.40
42097	420970001	105	1	40200710	VOC	64.40	64.40	64.40
42097	420970001	201	1	40200710	VOC	64.40	64.40	64.40

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
42097	420970001	202	1	40200710	VOC	64.40	64.40	64.40
42097	420970034	104	1	40200710	VOC	64.40	64.40	64.40
42097	420970034	105A	1	40200710	VOC	64.40	64.40	64.40
42101	4210101591	004	1	40200701	VOC	64.40	64.40	64.40
42101	4210102051	005	10	40200712	VOC	64.40	64.40	64.40
42101	4210102051	005	11	40200712	VOC	64.40	64.40	64.40
42101	4210102051	005	12	40200712	VOC	64.40	64.40	64.40
42101	4210102051	006	5	40200712	VOC	64.40	64.40	64.40
42101	4210102051	007	6	40200712	VOC	64.40	64.40	64.40
42101	4210102051	008	14	40200712	VOC	64.40	64.40	64.40
42101	4210102051	009	7	40200712	VOC	64.40	64.40	64.40
42101	4210103217	010	2	40200710	VOC	64.40	64.40	64.40
42109	421090001	113	1	40200710	VOC	64.40	64.40	64.40
42109	421090001	140	1	40200710	VOC	64.40	64.40	64.40
42119	421190477	P101	1	40200710	VOC	64.40	64.40	64.40
42129	421290071	105	1	40200701	VOC	64.40	64.40	64.40
42129	421290311	101	1	40200701	VOC	64.40	64.40	64.40
42133	421330034	103	1	40200701	VOC	64.40	64.40	64.40
42133	421330055	101	1	40200706	VOC	64.40	64.40	64.40
42133	421330055	101	2	40200706	VOC	64.40	64.40	64.40
44003	AIR1438	8	8	40200710	VOC	64.40	64.40	64.40
44007	AIR1859	2	2	40200701	VOC	64.40	64.40	64.40
44007	AIR3850	1	1	40200701	VOC	64.40	64.40	64.40
44007	AIR537	2	2	40200710	VOC	64.40	64.40	64.40
44009	AIR594	7	7	40200710	VOC	64.40	64.40	64.40
50005	9	4	1	40200701	VOC	64.40	64.40	64.40
Control Measure: Asphalt Production Plants								
34001	70003	U101	OS1	30500207	NOX	0.00	35.00	35.00
34001	70003	U101	OS2	30500207	NOX	0.00	35.00	35.00
34001	70003	U12	OS0	30500207	NOX	0.00	35.00	35.00
34001	70003	U13	OS0	30500207	NOX	0.00	35.00	35.00
34001	70003	U6	OS1	30500207	NOX	0.00	35.00	35.00
34001	70015	U401	OS1601	30500207	NOX	0.00	35.00	35.00
34001	70015	U401	OS2101	30500207	NOX	0.00	35.00	35.00
34001	70015	U401	OS401	30500207	NOX	0.00	35.00	35.00
34007	50373	U11	OS1	30500207	NOX	0.00	35.00	35.00
34007	50373	U6	OS1	30500207	NOX	0.00	35.00	35.00
34009	73014	U9	OS3	30500207	NOX	0.00	35.00	35.00
34009	73014	U9	OS7	30500207	NOX	0.00	35.00	35.00
34013	05005	U2	OS1	30500207	NOX	0.00	35.00	35.00
34015	55261	U4	OS1	30500207	NOX	0.00	35.00	35.00
34017	11171	U2	OS1	30500207	NOX	0.00	35.00	35.00
34021	60031	U6	OS1	30500207	NOX	0.00	35.00	35.00
34023	15129	U7	OS1	30500207	NOX	0.00	35.00	35.00
34025	20022	U1	OS1	30500207	NOX	0.00	35.00	35.00
34025	20023	U2	OS1	30500207	NOX	0.00	35.00	35.00
34025	20025	U26	OS1	30500207	NOX	0.00	35.00	35.00

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34025	20025	U3	OS2	30500207	NOX	0.00	35.00	35.00
34027	25009	U13	OS1	30500207	NOX	0.00	35.00	35.00
34027	25009	U2	OS1	30500207	NOX	0.00	35.00	35.00
34027	25268	U100	OS101	30500207	NOX	0.00	35.00	35.00
34027	25268	U1601	OS1601	30500207	NOX	0.00	35.00	35.00
34027	25268	U1601	OS1602	30500207	NOX	0.00	35.00	35.00
34029	78010	U1500	OS1501	30500207	NOX	0.00	35.00	35.00
34029	78010	U1500	OS1502	30500207	NOX	0.00	35.00	35.00
34029	78010	U1601	OS1601	30500207	NOX	0.00	35.00	35.00
34029	78010	U900	OS1	30500207	NOX	0.00	35.00	35.00
34029	78012	U101	OS1	30500207	NOX	0.00	35.00	35.00
34029	78014	U2	OS1	30500207	NOX	0.00	35.00	35.00
34031	30005	U100	OS113	30500207	NOX	0.00	35.00	35.00
34031	30005	U2300	OS2301	30500207	NOX	0.00	35.00	35.00
34031	30005	U2300	OS2332	30500207	NOX	0.00	35.00	35.00
34031	30085	U100	OS201	30500207	NOX	0.00	35.00	35.00
34031	30085	U100	OS901	30500207	NOX	0.00	35.00	35.00
34031	30085	U100	OS903	30500207	NOX	0.00	35.00	35.00
34035	35014	U100	OS113	30500207	NOX	0.00	35.00	35.00
34035	35014	U100	OS2301	30500207	NOX	0.00	35.00	35.00
34035	36009	U1000	OS1201	30500207	NOX	0.00	35.00	35.00
34035	36009	U1000	OS1202	30500207	NOX	0.00	35.00	35.00
34035	36009	U1000	OS1301	30500207	NOX	0.00	35.00	35.00
34035	36009	U1000	OS1401	30500207	NOX	0.00	35.00	35.00
34037	83008	U4	OS1	30500207	NOX	0.00	35.00	35.00
36081	2630200138	D00001	P01FP	30500251	NOX	35.00	35.00	35.00
36085	2640300031	3ADRYR	302FP	30500251	NOX	35.00	35.00	35.00
36119	3550800247	1MIXER	001FP	30500205	NOX	35.00	35.00	35.00
Control Measure: Cement Kilns								
23013	2301300028	001	1	30500706	NOX	60.00	60.00	60.00
24013	013-0012	39	01S39	30500606	NOX	46.67	46.67	46.67
24021	021-0013	21	01S21	30500706	NOX	46.67	46.67	46.67
24021	021-0013	22	01S22	30500706	NOX	46.67	46.67	46.67
24043	043-0008	24	01S24	30500606	NOX	46.67	46.67	46.67
36001	4012200004	U00002	OX1FP	30501202	NOX	70.00	70.00	70.00
36001	4012200004	U00003	FZ1FP	30501204	NOX	70.00	70.00	70.00
36001	4012200004	U00003	FZ2FP	30501204	NOX	70.00	70.00	70.00
36001	4012200004	U00003	SS1FP	30501206	NOX	70.00	70.00	70.00
36001	4012200004	U00012	OX2FP	30501202	NOX	70.00	70.00	70.00
36001	4012200004	U00013	FC2FP	30501204	NOX	70.00	70.00	70.00
36001	4012400001	041000	K12FP	30500706	NOX	20.00	20.00	20.00
36039	4192600021	U00K18	00CEP	30500706	NOX	20.00	20.00	20.00
36113	5520500013	0UKILN	G02FP	30500606	NOX	20.00	20.00	20.00
42019	420190024	101	4	30500706	NOX	0.00	52.38	52.38
42019	420190024	121	4	30500706	NOX	0.00	52.38	52.38
42073	420730024	226	1	30500606	NOX	0.00	54.29	54.29
42073	420730024	227	1	30500606	NOX	0.00	60.00	60.00

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
42073	420730024	228	1	30500606	NOX	0.00	54.18	54.18
42073	420730026	501	1	30500706	NOX	0.00	56.52	56.52
42073	420730026	502	1	30500706	NOX	0.00	56.52	56.52
42077	420770019	101	2	30500606	NOX	0.00	54.40	54.40
42079	420790013	101	1	30501201	NOX	85.00	85.00	85.00
42079	420790013	102	1	30501201	NOX	85.00	85.00	85.00
42079	420790013	103	1	30501204	NOX	85.00	85.00	85.00
42079	420790013	104	1	30501204	NOX	85.00	85.00	85.00
42079	420790060	104	1	30501301	NOX	85.00	85.00	85.00
42095	420950006	102	1	30500606	NOX	0.00	57.04	57.04
42095	420950006	122	1	30500606	NOX	0.00	57.04	57.04
42095	420950012	101	2	30500706	NOX	0.00	45.21	45.21
42095	420950012	102	2	30500706	NOX	0.00	45.21	45.21
42095	420950045	142	1	30500606	NOX	0.00	32.20	32.20
42095	420950045	143	1	30500606	NOX	0.00	32.20	32.20
42095	420950127	101	1	30500606	NOX	0.00	32.20	32.20
42095	420950127	102	1	30500606	NOX	0.00	32.20	32.20
42095	420950127	103	1	30500606	NOX	0.00	32.20	32.20
42095	420950127	104	1	30500606	NOX	0.00	32.20	32.20
42133	421330060	200	4	39000602	NOX	0.00	45.21	45.21
Control Measure: Glass and Fiberglass Furnaces								
24510	510-0285	10	01S10	30501402	NOX	85.00	85.00	85.00
25027	1200856	04	0304	30501402	NOX	85.00	85.00	85.00
25027	1200856	05	0304	30501402	NOX	85.00	85.00	85.00
34005	45982	U6	OS0	39999991	NOX	0.00	20.00	20.00
34011	75475	U1	OS1	30501401	NOX	0.00	20.00	20.00
34011	75475	U3	OS1	30501401	NOX	0.00	20.00	20.00
34011	75475	U35	OS1	30501401	NOX	0.00	20.00	20.00
34011	75475	U37	OS1	30501401	NOX	0.00	20.00	20.00
34011	75475	U5	OS1	30501401	NOX	0.00	20.00	20.00
34011	75503	U2	OS1001	30501401	NOX	0.00	20.00	20.00
34011	75503	U3	OS1	30501401	NOX	0.00	20.00	20.00
34011	75503	U4	OS1	30501401	NOX	0.00	20.00	20.00
34011	75503	U5	OS1	30501401	NOX	0.00	20.00	20.00
34011	75505	U12	OS1	30599999	NOX	0.00	20.00	20.00
34011	75505	U143	OS1	30599999	NOX	0.00	20.00	20.00
34011	75505	U144	OS1	30599999	NOX	0.00	20.00	20.00
34011	75505	U146	OS1	30599999	NOX	0.00	20.00	20.00
34011	75505	U150	OS1	30599999	NOX	0.00	20.00	20.00
34011	75505	U151	OS1	30599999	NOX	0.00	20.00	20.00
34011	75505	U6	OS1	30599999	NOX	0.00	20.00	20.00
34011	75506	U1	OS1	30501401	NOX	0.00	20.00	20.00
34011	75506	U1	OS3	30501401	NOX	0.00	20.00	20.00
34023	18070	U1	OS1	30501401	NOX	0.00	20.00	20.00
34033	65499	U1	OS1	30501401	NOX	0.00	20.00	20.00
34033	65499	U2	OS1	30501401	NOX	0.00	20.00	20.00
34033	65499	U3	OS1	30501401	NOX	0.00	20.00	20.00

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
36001	4010300016	KILNSG	10BEI	39001399	NOX	20.00	20.00	20.00
36001	4010300016	KILNSG	KNFFP	39001399	NOX	20.00	20.00	20.00
36001	4012200004	EI0001	E20EI	39000689	NOX	70.00	70.00	70.00
36011	7055200004	AFURNC	FRNFP	30501402	NOX	70.00	70.00	70.00
36015	8070400036	000001	O1AFP	30501402	NOX	70.00	70.00	70.00
36069	8320500041	UFURNC	FURFP	30501403	NOX	70.00	70.00	70.00
36089	6403000002	U00001	101FP	30501401	NOX	70.00	70.00	70.00
36089	6403000002	U00003	300FP	30501416	NOX	70.00	70.00	70.00
36101	8460300008	PCCTNK	GL2FP	30501416	NOX	70.00	70.00	70.00
42003	4200300164	003	1	30501404	NOX	85.00	85.00	85.00
42003	4200300164	007	1	30501404	NOX	85.00	85.00	85.00
42003	4200300164	008	1	30501404	NOX	85.00	85.00	85.00
42003	4200300165	P01	1	30501402	NOX	85.00	85.00	85.00
42003	4200300165	P02	1	30501402	NOX	85.00	85.00	85.00
42003	4200300165	P04	1	30501402	NOX	85.00	85.00	85.00
42003	4200300227	003	1	30590003	NOX	85.00	85.00	85.00
42003	4200300227	003	2	30590003	NOX	85.00	85.00	85.00
42003	4200300342	002	1	30501403	NOX	85.00	85.00	85.00
42003	4200300342	002	3	30501403	NOX	85.00	85.00	85.00
42007	420070012	103	1	30501402	NOX	85.00	85.00	85.00
42007	420070012	104	1	30501408	NOX	85.00	85.00	85.00
42007	420070012	105	1	30501408	NOX	85.00	85.00	85.00
42007	420070022	102	1	30501799	NOX	85.00	85.00	85.00
42027	420270021	P101	1	30501404	NOX	85.00	85.00	85.00
42027	420270021	P102	1	30501404	NOX	85.00	85.00	85.00
42027	420270021	P102	3	30501404	NOX	85.00	85.00	85.00
42027	420270021	P103	1	30501404	NOX	85.00	85.00	85.00
42031	420310009	102	1	30501402	NOX	85.00	85.00	85.00
42031	420310009	S105A	1	30501402	NOX	85.00	85.00	85.00
42039	420390012	101	1	30501403	NOX	85.00	85.00	85.00
42039	420390012	102	1	30501403	NOX	85.00	85.00	85.00
42041	420410013	101	1	30501403	NOX	85.00	85.00	85.00
42041	420410013	102	1	30501403	NOX	85.00	85.00	85.00
42045	420450041	101	1	30501410	NOX	85.00	85.00	85.00
42051	420510020	101	1	30501402	NOX	85.00	85.00	85.00
42051	420510020	102	1	30501402	NOX	85.00	85.00	85.00
42065	420650003	110	1	30501402	NOX	85.00	85.00	85.00
42065	420650007	103	1	30501402	NOX	85.00	85.00	85.00
42065	420650007	104	1	30501402	NOX	85.00	85.00	85.00
42079	420790008	101	1	30501704	NOX	85.00	85.00	85.00
42079	420790008	102	1	30501704	NOX	85.00	85.00	85.00
42079	420790008	103	1	30501701	NOX	85.00	85.00	85.00
42079	420790018	101	1	30501402	NOX	85.00	85.00	85.00
42079	420790018	101	2	30501402	NOX	85.00	85.00	85.00
42079	420790018	102	1	30501402	NOX	85.00	85.00	85.00
42079	420790018	102	2	30501402	NOX	85.00	85.00	85.00
42079	420790018	103	1	30501402	NOX	85.00	85.00	85.00

FIPS	SITEID	EU ID	PROCESS ID	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
42083	420830002	101	1	30501402	NOX	85.00	85.00	85.00
42083	420830002	201	1	30501402	NOX	85.00	85.00	85.00
42083	420830006	101	1	30501402	NOX	85.00	85.00	85.00
42083	420830006	102	1	30501402	NOX	85.00	85.00	85.00
42083	420830006	103	1	30501402	NOX	85.00	85.00	85.00
42095	420950047	101A	3	30501701	NOX	85.00	85.00	85.00
42095	420950047	103A	3	30501701	NOX	85.00	85.00	85.00
42117	421170020	P109	1	30501402	NOX	85.00	85.00	85.00
42117	421170020	P124	1	30501404	NOX	85.00	85.00	85.00
42117	421170020	P127	1	30501408	NOX	85.00	85.00	85.00
42125	421250001	107	1	30501404	NOX	85.00	85.00	85.00
42125	421250001	107	3	30501404	NOX	85.00	85.00	85.00
42129	421290233	101	2	30501404	NOX	85.00	85.00	85.00
42129	421290233	102	2	30501404	NOX	85.00	85.00	85.00
42129	421290553	101	1	30501402	NOX	85.00	85.00	85.00
42133	421330066	104	3	30501414	NOX	85.00	85.00	85.00

Table E-2 NonEGU BOTW Control Factors for ICI Boilers

	Boiler Size Range (mmBtu/hour)						
	< 25	25 to 50	50 to 100	100 to 250	>250		
SCC	**CF0_25**	**CF25_50**	**CF50_100**	**CF100_250**	**CF250**	**SCC_L4**	**SCC_L3**
10200104	10	50	10	40	0	Traveling Grate (Overfeed) Stoker	Anthracite Coal
10200202	10	50	10	40	0	Pulverized Coal: Dry Bottom	Bituminous/Subbituminous Coal
10200203	10	50	10	40	0	Cyclone Furnace	Bituminous/Subbituminous Coal
10200204	10	50	10	40	0	Spreader Stoker	Bituminous/Subbituminous Coal
10200205	10	50	10	40	0	Overfeed Stoker	Bituminous/Subbituminous Coal
10200206	10	50	10	40	0	Underfeed Stoker	Bituminous/Subbituminous Coal
10200212	10	50	10	40	0	Pulverized Coal: Dry Bottom (Tangential)	Bituminous/Subbituminous Coal
10200222	10	50	10	40	0	Pulverized Coal: Dry Bottom (Subbituminous Coal)	Bituminous/Subbituminous Coal
10200401	10	50	10	40	0	Grade 6 Oil	Residual Oil
10200402	10	50	10	40	0	10-100 Million Btu/hr **	Residual Oil
10200403	10	50	10	40	0	< 10 Million Btu/hr **	Residual Oil
10200404	10	50	10	40	0	Grade 5 Oil	Residual Oil
10200405	10	50	10	40	0	Cogeneration	Residual Oil
10200501	10	50	10	40	0	Grades 1 and 2 Oil	Distillate Oil
10200502	10	50	10	40	0	10-100 Million Btu/hr **	Distillate Oil
10200503	10	50	10	40	0	< 10 Million Btu/hr **	Distillate Oil
10200504	10	50	10	40	0	Grade 4 Oil	Distillate Oil
10200505	10	50	10	40	0	Cogeneration	Distillate Oil
10200601	10	50	10	75	0	> 100 Million Btu/hr	Natural Gas
10200602	10	50	10	75	0	10-100 Million Btu/hr	Natural Gas
10200603	10	50	10	75	0	< 10 Million Btu/hr	Natural Gas
10200604	10	50	10	75	0	Cogeneration	Natural Gas
10200701	10	50	10	75	0	Petroleum Refinery Gas	Process Gas
10200704	10	50	10	75	0	Blast Furnace Gas	Process Gas
10200707	10	50	10	75	0	Coke Oven Gas	Process Gas
10200710	10	50	10	75	0	Cogeneration	Process Gas
10200799	10	50	10	75	0	Other: Specify in Comments	Process Gas
10200802	10	50	10	40	0	All Boiler Sizes	Petroleum Coke
10200901	10	10	10	10	10	Bark-fired Boiler	Wood/Bark Waste
10200902	10	10	10	10	10	Wood/Bark-fired Boiler	Wood/Bark Waste

	Boiler Size Range (mmBtu/hour)						
	< 25	**25 to 50**	**50 to 100**	**100 to 250**	**>250**		
SCC	**CF0_25**	**CF25_50**	**CF50_100**	**CF100_250**	**CF250**	**SCC_L4**	**SCC_L3**
10200903	10	10	10	10	10	Wood-fired Boiler - Wet Wood (>=20% moisture)	Wood/Bark Waste
10200904	10	10	10	10	10	Bark-fired Boiler (< 50,000 Lb Steam) **	Wood/Bark Waste
10200905	10	10	10	10	10	Wood/Bark-fired Boiler (< 50,000 Lb Steam) **	Wood/Bark Waste
10200906	10	10	10	10	10	Wood-fired Boiler (< 50,000 Lb Steam) **	Wood/Bark Waste
10200907	10	10	10	10	10	Wood Cogeneration	Wood/Bark Waste
10200908	10	10	10	10	10	Wood-fired Boiler - Dry Wood (<20% moisture)	Wood/Bark Waste
10201001	10	50	10	75	0	Butane	Liquified Petroleum Gas (LPG)
10201002	10	50	10	75	0	Propane	Liquified Petroleum Gas (LPG)
10201003	10	50	10	75	0	Butane/Propane Mixture: Specify Percent Butane in	Liquified Petroleum Gas (LPG)
10300101	10	50	10	40	0	Pulverized Coal	Anthracite Coal
10300102	10	50	10	40	0	Traveling Grate (Overfeed) Stoker	Anthracite Coal
10300103	10	50	10	40	0	Hand-fired	Anthracite Coal
10300203	10	50	10	40	0	Cyclone Furnace (Bituminous Coal)	Bituminous/Subbituminous Coal
10300206	10	50	10	40	0	Pulverized Coal: Dry Bottom (Bituminous Coal)	Bituminous/Subbituminous Coal
10300207	10	50	10	40	0	Overfeed Stoker (Bituminous Coal)	Bituminous/Subbituminous Coal
10300208	10	50	10	40	0	Underfeed Stoker (Bituminous Coal)	Bituminous/Subbituminous Coal
10300209	10	50	10	40	0	Spreader Stoker (Bituminous Coal)	Bituminous/Subbituminous Coal
10300225	10	50	10	40	0	Traveling Grate (Overfeed) Stoker (Subbituminous C	Bituminous/Subbituminous Coal
10300226	10	50	10	40	0	Pulverized Coal: Dry Bottom Tangential (Subbitumin	Bituminous/Subbituminous Coal
10300401	10	50	10	40	0	Grade 6 Oil	Residual Oil
10300402	10	50	10	40	0	10-100 Million Btu/hr **	Residual Oil
10300403	10	50	10	40	0	< 10 Million Btu/hr **	Residual Oil
10300404	10	50	10	40	0	Grade 5 Oil	Residual Oil
10300501	10	50	10	40	0	Grades 1 and 2 Oil	Distillate Oil
10300502	10	50	10	40	0	10-100 Million Btu/hr **	Distillate Oil
10300503	10	50	10	40	0	< 10 Million Btu/hr **	Distillate Oil
10300504	10	50	10	40	0	Grade 4 Oil	Distillate Oil
10300601	10	50	10	75	0	> 100 Million Btu/hr	Natural Gas
10300602	10	50	10	75	0	10-100 Million Btu/hr	Natural Gas
10300603	10	50	10	75	0	< 10 Million Btu/hr	Natural Gas
10300701	10	50	10	75	0	POTW Digester Gas-fired Boiler	Process Gas
10300799	10	50	10	75	0	Other Not Classified	Process Gas

	Boiler Size Range (mmBtu/hour)						
	< 25	**25 to 50**	**50 to 100**	**100 to 250**	**>250**		
SCC	**CF0_25**	**CF25_50**	**CF50_100**	**CF100_250**	**CF250**	**SCC_L4**	**SCC_L3**
10300811	10	50	10	75	0	Landfill Gas	Landfill Gas
10300901	10	10	10	10	0	Bark-fired Boiler	Wood/Bark Waste
10300902	10	10	10	10	0	Wood/Bark-fired Boiler	Wood/Bark Waste
10300903	10	10	10	10	0	Wood-fired Boiler - Wet Wood (>=20% moisture)	Wood/Bark Waste
10300908	10	10	10	10	0	Wood-fired Boiler - Dry Wood (<20% moisture)	Wood/Bark Waste
10301002	10	50	10	75	0	Propane	Liquified Petroleum Gas (LPG)
10301003	10	50	10	75	0	Butane/Propane Mixture: Specify Percent Butane in	Liquified Petroleum Gas (LPG)

Table E-3 Area Source BOTW Control Factors for Adhesives and Sealants Application, Asphalt Paving, Consumer Products, and Portable Fuel Containers

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
Control Measure: Adhesives and Sealants					
09	2440020000	VOC	64.40	64.40	64.40
10	2440020000	VOC	64.40	64.40	64.40
11	2440020000	VOC	64.40	64.40	64.40
23	2440020000	VOC	64.40	64.40	64.40
24	2440020000	VOC	64.40	64.40	64.40
25	2440020000	VOC	64.40	64.40	64.40
33	2440020000	VOC	64.40	64.40	64.40
34	2440020000	VOC	64.40	64.40	64.40
36	2440020000	VOC	64.40	64.40	64.40
42	2440020000	VOC	64.40	64.40	64.40
44	2440020000	VOC	64.40	64.40	64.40
Control Measure: Asphalt Paving					
09	2461022000	VOC	20.00	20.00	20.00
24	2461022000	VOC	20.00	20.00	20.00
25	2461022000	VOC	20.00	20.00	20.00
33	2461022000	VOC	20.00	20.00	20.00
34	2461022000	VOC	75.00	75.00	75.00
36	2461022000	VOC	20.00	20.00	20.00
42	2461022000	VOC	0.00	20.00	20.00
Control Measure: Consumer Products					
09	2465000000	VOC	2.00	2.00	2.00
10	2460100000	VOC	2.00	2.00	2.00
10	2460200000	VOC	2.00	2.00	2.00
10	2460400000	VOC	2.00	2.00	2.00
10	2460500000	VOC	2.00	2.00	2.00
10	2460600000	VOC	2.00	2.00	2.00
10	2460800000	VOC	2.00	2.00	2.00
10	2460900000	VOC	2.00	2.00	2.00
11	2460100000	VOC	2.00	2.00	2.00
11	2460200000	VOC	2.00	2.00	2.00
11	2460400000	VOC	2.00	2.00	2.00
11	2460500000	VOC	2.00	2.00	2.00
11	2460600000	VOC	2.00	2.00	2.00
11	2460800000	VOC	2.00	2.00	2.00
11	2460900000	VOC	2.00	2.00	2.00
23	2460100000	VOC	2.00	2.00	2.00
23	2460200000	VOC	2.00	2.00	2.00
23	2460400000	VOC	2.00	2.00	2.00
23	2460500000	VOC	2.00	2.00	2.00
23	2460600000	VOC	2.00	2.00	2.00
23	2460800000	VOC	2.00	2.00	2.00

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
23	2460900000	VOC	2.00	2.00	2.00
24	2465000000	VOC	2.00	2.00	2.00
25	2460000000	VOC	2.00	2.00	2.00
33	2460000000	VOC	2.00	2.00	2.00
34	2465000000	VOC	2.00	2.00	2.00
36	2460000000	VOC	2.00	2.00	2.00
42	2465000000	VOC	2.00	2.00	2.00
44	2460100000	VOC	2.00	2.00	2.00
44	2460200000	VOC	2.00	2.00	2.00
44	2460400000	VOC	2.00	2.00	2.00
44	2460500000	VOC	2.00	2.00	2.00
44	2460600000	VOC	2.00	2.00	2.00
44	2460800000	VOC	2.00	2.00	2.00
44	2460900000	VOC	2.00	2.00	2.00
Control Measure: Portable Fuel Containers					
09	2501060300	VOC	5.80	23.20	58.00
10	2501011010	VOC	5.80	23.20	58.00
10	2501011011	VOC	5.80	23.20	58.00
10	2501011012	VOC	5.80	23.20	58.00
10	2501011015	VOC	5.80	23.20	58.00
10	2501011016	VOC	5.80	23.20	58.00
10	2501012010	VOC	5.80	23.20	58.00
10	2501012011	VOC	5.80	23.20	58.00
10	2501012012	VOC	5.80	23.20	58.00
10	2501012015	VOC	5.80	23.20	58.00
10	2501012016	VOC	5.80	23.20	58.00
11	2501011011	VOC	5.80	23.20	58.00
11	2501011012	VOC	5.80	23.20	58.00
11	2501011016	VOC	5.80	23.20	58.00
11	2501012011	VOC	5.80	23.20	58.00
11	2501012012	VOC	5.80	23.20	58.00
11	2501012016	VOC	5.80	23.20	58.00
23	2501060300	VOC	5.80	23.20	58.00
24	2501011011	VOC	5.80	23.20	58.00
24	2501011012	VOC	5.80	23.20	58.00
24	2501011016	VOC	5.80	23.20	58.00
24	2501012011	VOC	5.80	23.20	58.00
24	2501012012	VOC	5.80	23.20	58.00
24	2501012016	VOC	5.80	23.20	58.00
25	2501011000	VOC	0.00	23.20	58.00
25	2501012000	VOC	0.00	23.20	58.00
33	2501060300	VOC	5.80	23.20	58.00
34	2501000120	VOC	5.80	23.20	58.00
36	2501011011	VOC	5.80	23.20	58.00
36	2501011012	VOC	5.80	23.20	58.00
36	2501011016	VOC	5.80	23.20	58.00
36	2501012011	VOC	5.80	23.20	58.00

FIPSST	SCC	PLLTCODE	CE_2009	CE_2012	CE_2018
36	2501012012	VOC	5.80	23.20	58.00
36	2501012016	VOC	5.80	23.20	58.00
42	2501060300	VOC	5.80	23.20	58.00
44	2501060300	VOC	5.80	23.20	58.00

Table E-4 Area Source BOTW Control Factors for ICI Boilers

SCC	Control Factor	SCC_L4	SCC_L3	SCC_L2
2102001000	18.9	Total: All Boiler Types	Anthracite Coal	Industrial
2102002000	18.9	Total: All Boiler Types	Bituminous/Subbituminous Coal	Industrial
2102004000	18.9	Total: Boilers and IC Engines	Distillate Oil	Industrial
2102005000	18.9	Total: All Boiler Types	Residual Oil	Industrial
2102006000	18.9	Total: Boilers and IC Engines	Natural Gas	Industrial
2102007000	18.9	Total: All Boiler Types	Liquified Petroleum Gas (LPG)	Industrial
2102008000	10.0	Total: All Boiler Types	Wood	Industrial
2102011000	10.0	Total: All Boiler Types	Kerosene	Industrial
2103001000	19.5	Total: All Boiler Types	Anthracite Coal	Commercial/Institutional
2103002000	19.5	Total: All Boiler Types	Bituminous/Subbituminous Coal	Commercial/Institutional
2103004000	19.5	Total: Boilers and IC Engines	Distillate Oil	Commercial/Institutional
2103004001	19.5		Distillate Oil	Commercial/Institutional
2103004002	19.5		Distillate Oil	Commercial/Institutional
2103005000	19.5	Total: All Boiler Types	Residual Oil	Commercial/Institutional
2103006000	19.5	Total: Boilers and IC Engines	Natural Gas	Commercial/Institutional
2103007000	19.5	Total: All Combustor Types	Liquified Petroleum Gas (LPG)	Commercial/Institutional
2103008000	10.0	Total: All Boiler Types	Wood	Commercial/Institutional
2103011000	10.0	Total: All Combustor Types	Kerosene	Commercial/Institutional

G-3: Emissions Processing for 2002 OTC

TSD-1c

Emissions Processing for 2002 OTC Regional and Urban 12km Base Year Simulation

Bureau of Air Quality Analysis and Research
Division of Air Resources
New York State Department of Environmental Conservation
Albany, NY 12233

March 19, 2007

Overview

All emissions processing for the revised 2002 OTC regional and urban 12 km base case simulations was performed with SMOKE2.1 compiled on a Red Hat 9.0 Linux operating system with the Portland group fortran compiler version 5.1. The emissions processing was performed on a month-by-month and RPO-by-RPO basis, i.e. SMOKE processing was performed for each month for each of the RPOs (MANE-VU, VISTAS, CENRAP, MRPO) individually as well as for Canada. For each month/RPO combination, a separate SMOKE ASSIGNS file was created, and the length of the episode in each of these ASSIGNS files was set to the entire month. Also, as discussed in Section 3, there was no difference between "episode-average" temperatures and "monthly-average" temperatures for the Mobile6 simulations that used the option of temperature averaging.

This document is structured as follows: A listing of all emission inventories is given in Section 2, organized by RPO and source category. Section 3 discusses the Mobile6 processing approach employed for the different RPOs, while Section 4 describes the processing of biogenic emissions with BEIS3.12. Finally, Sections 5 through7 describe the temporal allocation, speciation, and spatial allocation of the emissions inventories, respectively.

1. Emission Inventories

1.1 MANE-VU

Version 3 of the MANE_VU inventory was utilized to generate CMAQ-ready emissions. This emissions inventory data were obtained from the MANEVU archive in April 2006.

1.1.1 Area Sources

- Files: MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt and MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt prepared by PECHAN, downloaded from **ftp.marama.org** (username mane-vu, password exchange)
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing

1.1.2 Nonroad Sources

- File: MANEVU_NRD2002_SMOKE_030306 prepared by PECHAN; downloaded from **ftp.marama.org** (username mane-vu, password exchange)

1.1.3 Mobile Sources

- VMT/Speed: MANEVU_2002_mbinv_02022006_addCT.txt prepared by PECHAN and NESCAUM; downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar

1.1.4 Point Sources

- Files: MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_041006.txt and MANEVU_Point_SMOKE_INPUT_ANNUAL_WINTERDAY_041006.txt prepared by PECHAN were downloaded from **ftp.marama.org** (username mane-vu, password exchange)
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing
- Corrected the omission of 2,100 tons/year VOC emissions from several point sources in NJ. NJDEP provided updated IDA files on June 30 that were used for modeling.

1.2 CENRAP

The inventory data were obtained from the CENRAP ftp site in March 2006 and reflect version BaseB of the CENRAP inventory.

1.2.1 Area Sources

- Files:
  - CENRAP_AREA_SMOKE_INPUT_ANN_STATES_081705.txt
  - CENRAP_AREA_MISC_SMOKE_INPUT_ANN_STATE_071905.txt
  - CENRAP_AREA_BURNING_SMOKE_INPUT_ANN_TX_ NELI_071905.txt
  - CENRAP_AREA_MISC_SMOKE_INPUT_NH3_MONTH_{MMM} _072805.txt where {MMM} is JAN, FEB, … DEC
  - CENRAP_AREA_SMOKE_INPUT_NH3_MONTH_{MMM} _071905.txt where {MMM} is JAN, FEB, … DEC
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing
- Note about area and nonroad source SMOKE processing for the CENRAP region: All area source inventories (both annual and month-specific) were processed in

one step through SMOKE. SMK_AVEDAY_YN was set to N, so seasonal profiles were used to apportion the annual inventories numbers by month. This setting was also used for the nonroad processing performed in a separate step. This was necessary since the month-specific files had zero in their 'average-day' column and the annual total column reflects the "monthly emissions as annual totals" as per header line. Therefore, seasonal profiles are used to apportion both the annual and month-specific files. As described below, we utilized the temporal profiles and cross-reference files generated by CENRAP. However, we did not verify that this approach indeed leads to the intended monthly allocation of ammonia and nonroad emissions.

1.2.2 Nonroad Sources

- Files:
  - CENRAP_NONROAD_SMOKE_INPUT_ANN_071305.txt
  - CENRAP_NONROAD_SMOKE_INPUT_MONTH_{MMM}_071305.txt where {MMM} is JAN, FEB, … DEC

1.2.3 Mobile Sources

- VMT/Speed files:
  - mbinv02_vmt_cenrap_ce.ida
  - mbinv02_vmt_cenrap_no.ida
  - mbinv02_vmt_cenrap_so.ida
  - mbinv02_vmt_cenrap_we.ida

1.2.4 Point Sources

- File: CENRAP_POINT_SMOKE_INPUT_ANNUAL_DAILY_072505.txt
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing.

1.3 VISTAS

All VISTAS emission files were obtained from the Alpine Geophysics ftp site. They reflect version BaseG of the VISTAS inventory with the exception of fire emissions which reflect BaseF and BaseD. These files were downloaded between February and August, 2006.

1.3.1 Area Sources

- Files:

    - arinv_vistas_2002g_2453922_w_pmfac.txt
    - ida_ar_fire_2002_vistaonly_basef.ida
- Note: the header lines of these files indicate that the fugitive dust correction was already applied, so no further correction was performed.

1.3.2 Nonroad Sources

- Files:
    - nrinv_vistas_2002g_2453908.txt
    - marinv_vistas_2002g_2453972.txt

1.3.3 Mobile Sources

- VMT/Speed file: mbinv_vistas_02g_vmt_12jun06.txt

1.3.4 Point Sources

- Files:
    - Annual:
        - egu_ptinv_vistas_2002typ_baseg_2453909.txt
        - negu_ptinv_vistas_2002typ_baseg_2453909.txt
        - ptinv_fires_{MM}_typ.vistas.ida where {MM} is 01, 02, 03, etc. depending on the month; these annual point fire files were generated as part of the VISTAS BaseD inventory and were obtained in January 2005
    - Hour-specific:
        - pthour_2002typ_baseg_{MMM}_28jun2006.ems where {MMM} is jan, feb, mar, etc.
        - pthour_fires_{MM}_typ.vistas.ida where {MM} is 01, 02, 03, etc. depending on the month; these hourly point fire files were generated as part of the VISTAS BaseD inventory and were obtained in January 2005
- Note: No fugitive dust correction was performed for these files.

1.4 MRPO

MRPO emissions for SMOKE modeling were generated by Alpine Geophysics through a contract from MARAMA to convert the MRPO BaseK inventory from NIF to IDA format. The files were downloaded from the MARAMA ftp site **ftp.marama.org** (username mane-vu, password exchange) between April and June 2006.

1.4.1 Area Sources

- Files:
    - Annual:
        - arinv_mar_mrpok_2002_27apr2006.txt
        - arinv_other_mrpok_2002_20jun2006.txt
    - Month-specific:

        - arinv_nh3_2002_mrpok_{mmm}_3may2006.txt where {mmm} is jan, feb, etc.
        - dustinv_2002_mrpok_{mmm}_23may2006.txt where {mmm} is jan, feb, etc.
- Fugitive dust correction: This correction was performed only to the arinv_other_mrpok_2002_20jun2006.txt file using county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing.
- Note about area source SMOKE processing: SMOKE processing was performed separately for the annual and month-specific files. For the annual inventory processing, SMK_AVEDAY_YN was set to N, so seasonal profiles were used to apportion the annual inventories numbers by month. For the month-specific inventory processing, this variable was set to Y so that no seasonal profiles would be applied and the inventory numbers in the 'average day' column would be used. To save a SMOKE processing step, the annual "marine" inventory "arinv_mar_mrpok_2002_27apr2006.txt" was processed together with the annual "other area source" inventory "arinv_other_mrpok_2002_20jun2006.txt" even though it technically is part of the nonroad inventory.

1.4.2 Nonroad Sources

- Files: nrinv_2002_mrpok_{mmm}_3may2006.txt where {mmm} is jan, feb, etc.

1.4.3 Mobile Sources

- VMT/Speed file: mbinv_mrpo_02f_vmt_02may06.txt

1.4.4 Point Sources

- Files: ptinv_egu_negu_2002_mrpok_1may2006.txt
- Fugitive dust correction: This correction was performed only to the arinv_other_mrpok_2002_20jun2006.txt file using county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing.

1.5 Canada

1.5.1 Area Sources

- File: AS2000_SMOKEready.txt obtained from ftp://ftp.epa.gov/EmisInventory/canada_2000inventory
- Fugitive dust correction: We applied "divide-by-four" correction for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; this adjustment was performed outside SMOKE with in-house Fortran programs. No county/province-specific correction factors were available for Canada

1.5.2 Nonroad Sources

- File: NONROAD2000_SMOKEready.txt obtained from ftp://ftp.epa.gov/EmisInventory/canada_2000inventory

1.5.3 Mobile Sources

- File: MOBILE2000_SMOKEready.txt obtained from ftp://ftp.epa.gov/EmisInventory/canada_2000inventory
- Fugitive dust correction: applied "divide-by-four" correction for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; this adjustment was performed outside of SMOKE with in-house Fortran programs. No county/province-specific correction factors were available for Canada.

1.5.4 Point Sources

There has long been difficulty in obtaining an up-to-date Canadian criteria emissions inventory for point sources. This is due largely to confidentiality rights afforded to Canadian facilities. Thus far, the most recent inventory of Canadian point sources is rooted in the 1985 NAPAP data and is close to two decades old. Because there are a number of high emitting industrial facilities in southern Canada it is of particular importance to have a reasonably accurate inventory of these sources especially when modeling air quality over the Northeast and Midwest United States. Toward this end, an effort was made to obtain more recent Canadian point source data and incorporate it into an inventory database, which could then be used for the 2002 OTC air quality modeling.

Perhaps the most accurate and publicly accessible source of Canadian pollutant data is now available from the National Pollutant Release Inventory (NPRI) database. This database contains 268 substances. Facilities that manufacture, process or otherwise use one of these substances and that meet reporting thresholds are required to report these emissions to Environment Canada on an annual basis. The NPRI data are available at Environment Canada's website and can be found at the link http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm. The page hosts an on-line search engine where one can locate emissions by pollutant or location. In addition, the entire database is available for download as an MS Access or Excel file. The NPRI database contains

numerous pages with a rather comprehensive list of information. Detailed information is available about each facility, including location, activity and annual emissions. In addition, facilities having stacks with a height of 50 meters or more are required to report stack parameters.

Unfortunately, one of the limitations of the NPRI database for modeling purposes is that the data are only available at the facility level. Emissions models require process level information, so in order to use this data, a few generalizations had to be made. Each facility has a Standard Industrial Classification (SIC) code associated with it; however, emissions models require Source Classification Codes (SCC's). SCC's are of critical importance as the emissions models use these codes for assignment of temporal and speciation profiles. SIC codes describe the general activity of a facility while SCC codes describe specific processes taking place at each facility. While no direct relationship exists between these two codes, a general albeit subjective association can be made.

For the purposes of creating a model-ready inventory file it was necessary to obtain the whole NPRI database. After merging all the necessary components from the NPRI database required in the SMOKE inventory file, the SIC code from each facility was examined and assigned an SCC code. In most cases, only a SCC3 level code was assigned with confidence. While this is admittedly a less than desirable process, it does allow for the use of the most recent emissions from the NPRI database to be used in modeling. Furthermore, having some level of SCC associated with these emissions will ensure that they will be assigned a temporal and speciation profile by the model, other than the default. Once the model-ready inventory file was developed, it was processed through SMOKE.

2. Mobile6 Processing

2.1 MANE-VU

2.1.1 Mobile6 input files

- Month-specific input files were prepared by PECHAN and NESCAUM and were downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar
- Added the line "REBUILD EFFECTS :0.10" to each file before the SCENARIO record to override the Mobile6 default setting of 0.9 (90%) for the "chip reflash" effectiveness

2.1.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files were prepared by PECHAN and NESCAUM and were downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar

2.1.3 Temperature averaging

- Following the setting in the MANEVU_2002_mvref.txt files, the following procedures were used by SMOKE for temporal and spatial temperature averaging in the calculation of emission factors:
    - Spatial averaging: temperatures were averaged over all counties that share a common reference county (i.e. Mobile6 input file)
    - Temporal averaging for May – September emissions processing: no temporal averaging was used, i.e. day-specific temperatures were used to calculate emission factors for each day.
    - Temporal averaging for non-summer-months emissions processing: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

2.2 CENRAP

2.2.1 Mobile6 input files

- Mobile6 input files for the CENRAP region for January and July were contained in the files central_M6_{MMM}.zip, north_M6_{MMM}.zip, south_M6_{MMM}.zip, west_M6_{MMM}.zip where {MMM} is either jan or jul. July input files were used for April – September processing, while January input files were used for the remaining months
- All files were downloaded from the CENRAP ftp site in March 2006.

2.2.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files were contained in the files central_M6_RD.zip, north_M6_RD.zip, south_M6_RD.zip, and west_M6_RD.zip. The SMOKE MCREF, MVREF, and MCODES files were contained in the file MOBILESMOKE_Inputs.zip. The MCREF and MVREF files were combined for the different regions (“central”, “east”, “west”, “north”)
- All files were downloaded from the CENRAP ftp site in March 2006.

2.2.3 Temperature averaging

- The following procedures were used by SMOKE for temporal and spatial temperature averaging in the calculation of emission factors according to the setting in the mvref files:
    - Spatial averaging: no spatial averaging of temperatures, i.e. the temperatures for the reference county is used to calculate emission factors for all counties that share this reference county (i.e. Mobile6 input file)
    - Temporal averaging: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

2.3 VISTAS

2.3.1 Mobile6 input files

- Month-specific Mobile6 input files were obtained from the Alpine Geophysics ftp site in July 2006. They reflect version BaseG of the VISTAS inventory.

2.3.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files utilized were obtained from the Alpine Geophysics ftp site in July 2006. They reflect version BaseG of the VISTAS inventory.

2.3.3 Temperature averaging

- The following procedures were used by SMOKE for the temporal and spatial temperature averaging in the calculation of emission factors according to the setting in the mvref_baseg.36k.ag.txt file:
    - Spatial averaging: temperatures averaged over all counties that share a common reference county (i.e. Mobile6 input file)
    - Temporal averaging: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

2.4 MRPO

2.4.1 Mobile6 input files

- Month-specific Mobile6 input files for SMOKE modeling were generated by Alpine Geophysics through a contract from MARAMA. They are based on version BaseK of the MRPO inventory. The files were downloaded from the MARAMA ftp site **ftp.marama.org** (username mane-vu, password exchange) in May 2006.

2.4.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files for SMOKE modeling were generated by Alpine Geophysics through a contract from MARAMA. They are based on version BaseK of the MRPO inventory. The files were downloaded from the MARAMA ftp site **ftp.marama.org** (username mane-vu, password exchange) in May 2006.

2.4.3 Temperature averaging

- The following procedures were used by SMOKE for the temporal and spatial temperature averaging in the calculation of emission factors according to the setting in the mvreg_mrpo_basek.txt file:
    - Spatial averaging: temperatures averaged over all counties that share a common reference county (i.e. Mobile6 input file)

- Temporal averaging: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

3. Biogenic Emission Processing

Hourly gridded biogenic emissions for the 12 km and 36 km modeling domains were calculated by BEIS3.12 through SMOKE, using MCIP-processed MM5 fields for temperature ("TA", layer-1 temperature), solar radiation ("RGRND"), surface pressure ("PRES"), and precipitation ("RN" and "RC"). A 'seasonal switch' file was generated by the SMOKE utility metscan to determine whether winter or summer emission factors should be used for any given grid cell on any given day. Winter emission factors are used from January 1st through the date of the last frost and again from the data of the first frost in fall through December 31st. Summer emission factors are used for the time period in between. This calculation is performed separately for each grid cell.

4. Temporal Allocation

4.1 MANE-VU

4.1.1 Area and nonroad sources

- Generated as part of the MANE-VU version 1 inventory
- amptpro.m3.us+can.manevu.030205.txt
- amptref.m3.manevu.012405.txt
- downloaded from **ftp.marama.org** (username mane-vu, password exchange) in January 2005

4.1.2 Mobile sources

- MANEVU_2002_mtpro_02022006_addCT.txt
- MANEVU_2002_mtref_02022006_addCT.txt
- prepared by PECHAN and NESCAUM and downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar

4.1.3 Point Sources

- Based on the same files as for the MANE-VU area and nonroad temporal files listed above, but added the CEM-based 2002 state-specific temporal profiles and cross-references for EGU sources for the MANE-VU states that were generated by VISTAS for their BaseD modeling and obtained in February 2005.
- No CEM-based hour-specific EGU emissions were utilized

4.2 CENRAP

The following temporal profiles and cross-reference files were used:

- Area and nonroad sources:
    - amptpro.m3.us+can.cenrap.010605_incl_nrd.txt
    - amptref.m3.cenrap.010605_add_nh3_and_nrd.txt
- Mobile sources:
    - mtpro.cenrap.v3.txt
    - mtref.cenrap.v3.txt
- Point sources:
    - ptpro.{QQ}.cenrap_egus_cem.00-03avg.121205.txt where {QQ} is Q1 for January/February/March, Q2 for April/May/June, etc.
    - ptref.{QQ}.cenrap_egus_cem.00-03avg.121205.txt where {QQ} is Q1 for January/February/March, Q2 for April/May/June, etc.
- All files were downloaded from the CENRAP ftp site in March 2006.

4.3 VISTAS

The following month-specific temporal profiles and cross-reference files were used:

- Area and nonroad sources:
    - atpro_vistas_basef_15jul05.txt
    - atref_vistas_basef_15jul05.txt
- Mobile sources:
    - mtpro_vistas_basef_04jul05.txt
    - mtref_us_can_vistas_basef_04jul05.txt
- Point sources:
    - ptpro_typ_{MMM}_vistasg_28jun2006.txt where {MMM} is jan, feb, mar, etc.
    - ptref_typ_vistas_baseg_28jun2006.txt
- These files were obtained from the Alpine Geophysics ftp site. They reflect version BaseG of the VISTAS inventory for the point source allocation files and version BaseF for the area, nonroad, and mobile source allocation files. These files were downloaded between February and July, 2006.

4.4 MRPO

The following month-specific temporal profiles and cross-reference files were used for all source categories:

- amptpro_typ_us_can_{MMM}_vistas_27nov04.txt where {MMM} is jan, feb, mar, etc.
- amptref_2002_us_can_vistas_17dec04.txt
- These files were obtained from VISTAS in January 2005 and reflect their BaseD modeling. No updated temporal profiles or cross-reference files were developed for use with the MRPO BaseK inventory.

4.5 Canada

For Canada, the SMOKE2.1 default temporal profiles and cross-reference files (amptpro.m3.us+can.txt and amptref.m3.us+can.txt) were utilized.

5. Speciation

The same speciation profiles (gspro.cmaq.cb4p25.txt) and cross-references (gsref.cmaq.cb4p25.txt) were utilized for all regions and all source categories. Different versions of these files were obtained (SMOKE2.1 default, EPA-CAIR modeling, VISTAS, CENRAP and MANE-VU) and compared. After comparing the creation dates and header lines of these files, it was determined that the EPA-CAIR and MANE-VU files had the most recent updates, and consequently the final speciation profile and cross-reference files used for all regions and source categories was based on the EPA-CAIR files with the addition of MANE-VU specific updates.

6. Spatial Allocation

6.1 U.S.

The spatial surrogates for the 12km domain were extracted from the national grid 12km U.S. gridding surrogates posted at EPA's website at
http://www.epa.gov/ttn/chief/emch/spatial/newsurrogate.html
The gridding cross-references were also obtained from this website, but for the processing of MANE-VU area source emissions, MANE-VU specific cross-reference entries posted on the MARAMA ftp site were added.

6.2 Canada

The spatial surrogates for Canadian emissions for the 12km domain were extracted from the national grid 12km Canadian gridding surrogates posted at EPA's website at
http://www.epa.gov/ttn/chief/emch/spatial/newsurrogate.html
The gridding cross-references were also obtained from this website.

Reference:

Pechan: (2006) Technical Support document for 2002 MANE-VU SIP Modeling inventories, version 3. Prepared by E. H. Pechan & Associates, Inc. 3622 Lyckan Parkway, Suite 2005, Durham, NC 27707.

G-4: Future Year Emissions Inventory for OTC

TSD-1f

Future Year Emissions Inventory for 8-h OTC Ozone Modeling

Bureau of Air Quality Analysis and Research
Division of Air Resources
New York State Department of Environmental Conservation
Albany, NY 12233

February 22, 2007

Following the designation of an area as non-attainment for the criteria pollutant Ozone, the Clean Air Act requires submission of an implementation plan, commonly referred to as State Implementation Plan (SIP), demonstrating as to how that area will be meeting the NAAQS in the time period established by the Act. Several areas of the OTR were designated as being in nonattainment for 8-hr ozone (see http://www.epa.gov/ozonedesignations/) with a maximum attainment date of June 2009 and June 2010. However, given that ozone precursors also contribute to $PM_{2.5}$ and other logistics, it was recommended and agreed by the member states that the future year for demonstrating attainment would be 2009. Therefore the OTR states initiated the development of emissions inventories reflecting growth and control from 2002 to 2009 as well as for 2012 and 2018. The 2018 inventory was in response to the need for submission of regional haze SIP, and the 2012 as a next step in the event that attainment for ozone was not feasible in 2009.

Future year emissions inventories within the OTR

The OTR states through MANE-VU contracted MACTEC Federal Programs (called Contractor) develop the 2009, 2012 and 2018 inventories based upon 2002 inventories that the states had previously developed for use in the base year model work. The Contractor in consultation with the states developed the necessary growth and control factors and applied to the 2002 inventory. It should be noted that emissions for mobile sources and the electric energy generating units (EGUs) was not part of the Contractor's effort. The states provided VADEQ and NESCAUM appropriate MOBILE 6 input files along with the projected VMTs, which coupled with the hourly gridded temperature information was used to generate mobile source emissions. As for the emissions from the EGU sector, the inter-RPO work group utilized the Integrated Planning Model (IPM) to develop the state and unit-level emissions. Details on these topics can be found in MACTEC (2007) for non-EGU sectors and in ICF (2005a, 2005b) for the EGU sector. These inventories are identified as 2009 on the way (2009OTW), since they reflect all emission control measures that were promulgated or would become effective on or before 2009.

In addition to these OTW inventories, states have also requested the development of what is termed as beyond on the way (BOTW) inventories for 2009, 2012, and 2018. These inventories are to be based on additional OTC model rules, which would result in reduction in emissions from specific source categories. Details on the development of these controls and the corresponding inventories can be found in MACTEC (2007).

Future year emission inventories outside the OTR

MANE-VU obtained inventories for 2009OTW and 2018OTW as part of the inter-RPO workgroup. However, only MRPO provided emissions for 2012OTW. For the VISTAS region, 2012 emissions were obtained by interpolating area, nonroad, and non-EGU emissions between 2009 and 2018. For mobile sources, VMT were interpolated between

2009 and 2018 and the 2012 emissions were calculated with MOBILE6 using these interpolated VMT and 2012 emission factors. For the CENRAP region, no 2012 emissions were generated, and therefore the 2009 emissions were used in the 2012 CMAQ simulation.

Canadian Emissions

In the case of Canadian emissions, 2010 and 2020 area, non-road, and mobile source emissions were obtained from USEPA (ftp://ftp.epa.gov/EmisInventory/canada_2000inventory/). Primary $PM_{2.5}$ and PM_{10} emissions for the SCCs listed in http://www.epa.gov/ttn/chief/emch/invent/tf_scc_list2002nei_v2.xls were divided by a factor of 4 to account for the fugitive dust transport fraction correction. EGU point source emissions for 2010 and 2020 were obtained from Environment Canada (Bloomer, 2006), while non-EGU point source emissions were assumed to be the same as those developed for 2002 and described elsewhere (see TSD-1c). The 2010 inventories were used in preparing CMAQ input files for the 2009OTW, 2009BOTW, and 2012BOTW scenarios.

Emissions processing – Application of SMOKE

The 2009OTW, 2009BOTW, and 2012 BOTW inventories were processed by VADEQ and NYSDEC using a template similar to that was used for processing 2002 base year emissions (see TSD-1d, TSD-1j) for the 12 km domain. In particular, all gridding and speciation profiles and cross-reference files as well as all temporal allocation profiles and cross-reference files used in the 2002 processing were also used for future year processing. For each day, the following files were prepared:

2009OTW:

- MANE-VU
  - 2009 OTW V3 area source (VADEQ)
  - 2009 V3 nonroad source (VADEQ)
  - 2009 mobile source (NYSDEC)
  - 2009 OTW V3 non-EGU point source (VADEQ)
  - 2009 IPM2.1.9. EGU point source (VADEQ)
  - 2009 EGU point source, IPM2.1.9. non-fossil fuel units (VADEQ)
- VISTAS
  - 2009 BaseG area source (VADEQ)
  - 2009 BaseG nonroad source (VADEQ)
  - 2009 BaseG non-EGU point source (VADEQ)
  - 2009 IPM2.1.9. EGU point source (incl. post-IPM adjustments) (VADEQ)
  - 2009 BaseG low-level fires (VADEQ)
  - 2009 BaseG elevated source fires (VADEQ)
- MRPO
  - 2009 BaseK area source (NYSDEC)
  - 2009 BaseK area source NH3/dust (NYSDEC)

    - 2009 BaseK nonroad source (NYSDEC)
    - 2009 non-EGU point source (VADEQ)
    - 2009 IPM2.1.9. EGU point source (incl. post-IPM adjustments) (VADEQ)
- CENRAP
    - 2009 BaseB area source (VADEQ)
    - 2009 BaseB nonroad source (VADEQ)
    - 2009 non-EGU point source (VADEQ)
    - 2009 IPM2.1.9. EGU point source (VADEQ)
- VISTAS/MRPO/CENRAP ("non-MANE-VU RPOs")
    - 2009 mobile sources for all non-MANE-VU RPOs as implemented in VISTAS 2009 BaseG processing (VADEQ)
- Canada
    - 2010 area sources (NYSDEC)
    - 2010 nonroad sources (NYSDEC)
    - 2010 mobile sources (NYSDEC)
    - point sources (2002 non-EGU point sources; 2010 EGU point sources from IPM) (NYSDEC)
- Biogenics
    - Same as for 2002 base case, calculated with hourly MM5 meteorological fields for 2002 (NYSDEC)

2009 BOTW:

As above for 2009 OTW, with the following two exceptions:

- MANE-VU
    - 2009 BOTW V3 area source (NYSDEC)
    - 2009 BOTW V3 non-EGU point source (NYSDEC)

2012 BOTW:

- MANE-VU
    - 2012 OTW V3 area source (NYSDEC)
    - 2012 V3 nonroad source (NYSDEC)
    - 2012 mobile source (NYSDEC)
    - 2012 OTW V3 non-EGU point source (NYSDEC)
    - 2012 IPM2.1.9. EGU point source (NYSDEC)
    - 2009 EGU point source, IPM2.1.9. non-fossil fuel units (VADEQ)
- VISTAS
    - 2012 BaseG area source (interpolated between 2009 BaseG and 2018 BaseG) (NYSDEC)
    - 2012 BaseG nonroad source (interpolated between 2009 BaseG and 2018 BaseG) (NYSDEC)
    - 2012 BaseG mobile source (interpolated VMT between 2009 BaseG and 2018 BaseG) (NYSDEC)

    - 2012 BaseG non-EGU point source (interpolated between 2009 BaseG and 2018 BaseG) (NYSDEC)
    - 2012 IPM2.1.9. EGU point source (incl. post-IPM adjustments) (NYSDEC)
    - 2009 BaseG low-level fires (VADEQ)
    - 2009 BaseG elevated source fires (VADEQ)
- MRPO
    - 2012 BaseK area source (NYSDEC)
    - 2012 BaseK area source NH3/dust (NYSDEC)
    - 2012 BaseK nonroad source (NYSDEC)
    - 2012 BaseK nonroad source (NYSDEC)
    - 2012 non-EGU point source (NYSDEC)
    - 2012 IPM2.1.9. EGU point source (incl. post-IPM adjustments) (NYSDEC)
- CENRAP
    - 2009 BaseB area source (VADEQ)
    - 2009 BaseB nonroad source (VADEQ)
    - 2009 mobile source (based on VISTAS 2009 BaseG processing) (NYSDEC)
    - 2009 non-EGU point source (VADEQ)
    - 2009 IPM2.1.9. EGU point source (VADEQ)
- Canada
    - 2010 area sources (NYSDEC)
    - 2010 nonroad sources (NYSDEC)
    - 2010 mobile sources (NYSDEC)
    - point sources (2002 non-EGU point sources; 2010 EGU point sources from IPM) (NYSDEC)
- Biogenics
    - Same as for 2002 base case, calculated with hourly MM5 meteorological fields for 2002

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MACTEC (2007) Development of Emission Projection for 2009, 2012, and 2018 for nonEGU point, area, and nonroad sources in the MANE-VU region. www.marama.org/reports

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TSD-1c (2006) Emissions Processing for 2002 OTC Regional and Urban 12km Base year simulation

TSD-1d (2006) 8-h Ozone Modeling using the SMOKE/CMAQ system

TSD-1j (2007) Emission processing for OTC 2009 OTW/OB 12km CMAQ Simulations

$PM_{2.5}$ SIP

Appendix H

Modeling and Reasonable Further Progress (RFP) Inventories

H-1: Inventory Revisions

H-2: Inventory Listings

- MANE-VU Modeling Inventory
- ACHD Revised Modeling Inventory
- RFP Inventory

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H-1: Inventory Revisions

Inventory spreadsheets can also be found on the accompanying DVD.

List of Facilities in Liberty-Clairton $PM_{2.5}$ Near-Field Domain (20x20km)

Sources Within or Adjacent to Liberty-Clairton Area

US Steel Clairton, *Clairton*
Koppers, *Clairton*
Mid-Continent Coal & Coke, *Clairton*
Clairton Slag, *W. Elizabeth*
Eastman Chemical, *W. Elizabeth*
Sanyo Chemical, *W. Elizabeth*
Guardian, *Jefferson Hills*
Marsh Asphalt, *Dravosburg (now closed)*
Kinder Morgan, *Dravosburg*
US Steel Irvin, *W. Mifflin*
GE International, *W. Mifflin*
GM, *W. Mifflin*
Liberty Polyglass/Pultrusions, *W. Mifflin*
Nash U.S., *Elizabeth*
PA Electric Coil, *Glassport (formerly outside 20km)*
CP Industries, *McKeesport*
Precoat, *McKeesport*
UPMC McKeesport, *McKeesport*
Dura-Bond, *Liberty*

Other Sources Within 20km Domain

US Steel Edgar Thomson, *Braddock*
Braddock Recovery, *Braddock*
Langenfelder, *Braddock (now Tube City – ET)*
Galvtech, *W.Mifflin*
Epic Metals, *Rankin*
Tube City, *W. Mifflin*
Kelly Run Landfill, *Forward*
Nat'l Energy Technology Lab, *South Park*
CDC-NIOSH, *South Park*
Bettis Atomic Lab, *W. Mifflin*
Whemco – W. Homestead, *Homestead*
Whemco – Hays, *Pittsburgh*
Laurel Mountain Whirlpool, *Turtle Creek*

Jefferson Hospital, *Jefferson Hills*
Nextech, *Turtle Creek*
Chambers Development, *Monroeville*
Pittsburgh Electrical Insulation, *Munhall*

Minor Sources Not in MANE-VU Inventory (added to corrected ACHD inventory)

AKJ Industries, *Clairton*
Mon Valley Transportation Center, *Glassport (now closed)*
ELG Metals, *Liberty*

Minor Sources Not in MANE-VU Inventory (not added to corrected inventory)

Elizabeth Carbide, *McKeesport*
Harbison Walker, *W. Mifflin*
Marathon Ashland, *Jefferson Hills*
Penn Rilton, *W. Elizabeth*
Ryan Metal, *McKeesport*
Tech Met, *Glassport*
TYK Refractories, *Jefferson Hills*

Sources Immediately Outside Allegheny County

RRI Energy [Reliant] Energy – Elrama, *Union Twp.*
Allegheny Energy – Mitchell, *Union Twp. (just outside 20km)*

Summary of ACHD Revisions to MANE-VU Inventory

ACHD implemented a combination of the MANE-VU inventory from the regional CMAQ modeling and a local revised ACHD inventory. The majority of sources were modeled using the MANE-VU emissions; the focus of revised emissions for the ACHD inventory was to correct gross errors for distant sources and to better characterize sources close to the Liberty-Clairton nonattainment area.

The MANE-VU/CMAQ inventory was provided by MARAMA and by NYSDEC. Only primary $PM_{2.5}$ (filterable + condensable) emissions were modeled, since data analysis has shown that the primary carbons are the largest contributors to the excess at Liberty-Clairton. Sources were identified in the inventory according to facility name, device ID, and stack ID. Years modeled were 2002 emissions for baseline case and a combination of 2012 and 2014 emissions for future projected case.

Corrections to distant sources mostly involved additions or revisions to electric generating units (EGUs). For the baseline case, condensible $PM_{2.5}$ emissions that were missing from the 2002 inventory were included (based on the EPA NEI inventory). Most EGUs in Southwestern PA, OH, and WV were found to be missing condensibles in 2002. For the future case, there were fewer corrections for condensibles, but corrections for coordinates and future modifications were included for many EGUs.

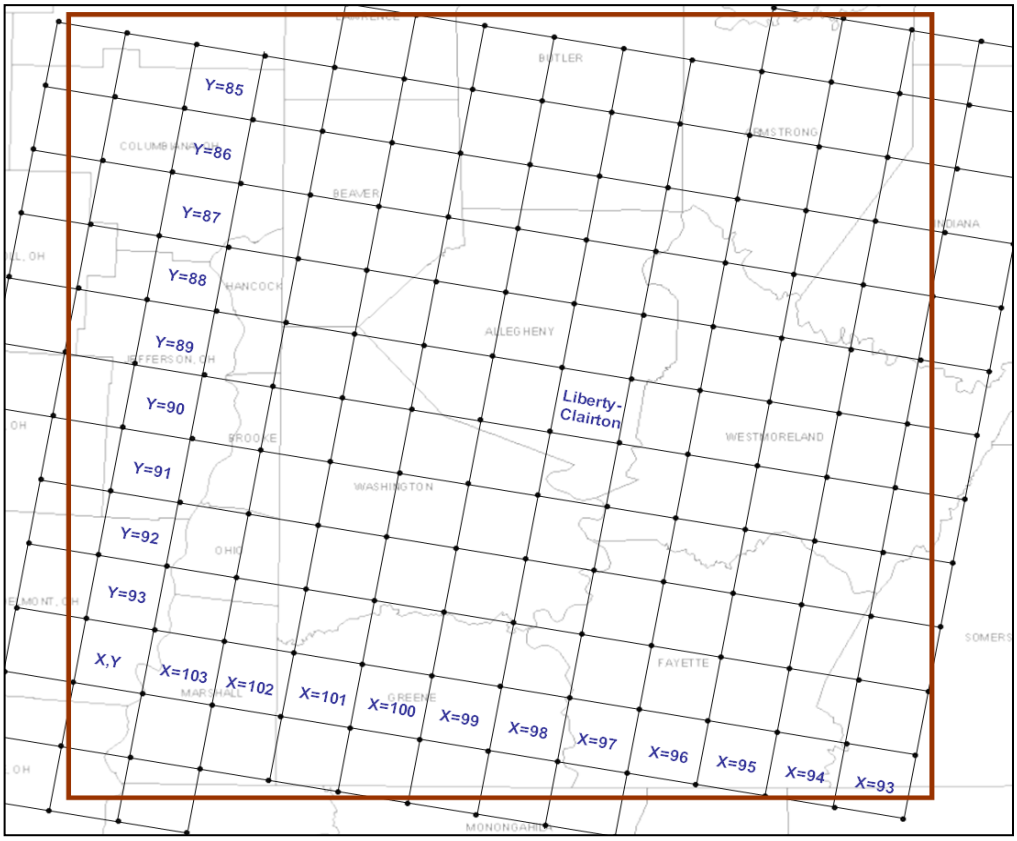
Source within or adjacent to the Liberty-Clairton area were revised for source type, emissions, and more accurate coordinates. Emissions changes were based on stack tests and emissions factors. Building parameters were also added to sources that may incur downwash.

Methodology

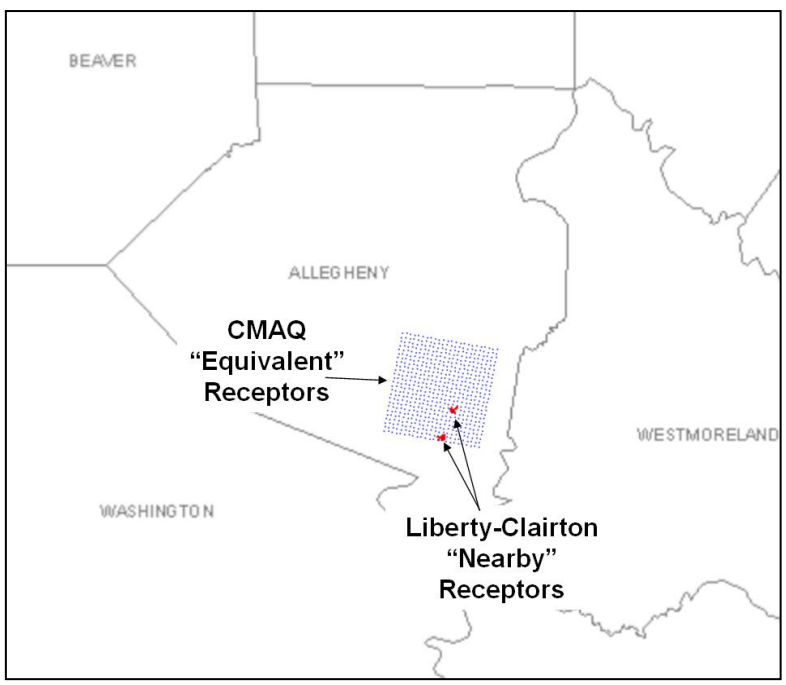
All sources in the MANE-VU inventory within a 150 x 150 km domain in Southwestern PA, the WV Northern Panhandle, and Eastern OH were modeled with CALPUFF. Average impacts across an equivalent 12 x 12 km receptor grid (500 m spacing) were subtracted from the CMAQ result for the Liberty-Clairton CMAQ grid cell (98, 89). Corrected sources were then modeled across dense smaller receptor grids (100 m spacing) around the Liberty and Clairton monitors, and average impacts for these smaller grids were added to the CMAQ grid cell average. A more detailed description of the methodology is provided in the Liberty-Clairton modeling protocol.

On the following page are maps showing the CMAQ grid cells and CALPUFF receptor grids for the 150 x 150 km modeling area. Since the CMAQ modeling grid was based on Lambert conformal projection, the CMAQ grid cells appear to be diagonally skewed due to the Earth's curvature. Sources are listed in the MANE-VU inventory according to Geodetic WGS-84 latitude-longitude coordinates. For the ACHD modeling, all coordinates were converted to Universal Transverse Mercatur (UTM) NAD83 system. Elevations were also required for each source in CALPUFF.

CMAQ Grid Cells within 150 x 150 km Modeling Domain



Liberty-Clairton Receptor Grids



2002 Inventory Revisions

The largest revisions to the baseline 2002 inventory involved the addition of condensibles for EGUs and updated stack test emissions for local sources near Liberty-Clairton. The revisions increased primary $PM_{2.5}$ from distant EGUs by several thousand tons, leading to an increase of about 0.5 µg/m³ in modeled impacts on the Liberty-Clairton CMAQ equivalent receptors (fairly consistent throughout). The revisions to the local sources were most significant, leading to realistic modeled impacts at the Liberty and Clairton nearby receptors in comparison to monitored data.

Missing condensible emissions for the EGUs (by boiler stack) were taken from the NEI 2002 inventory. Newer stack tests for local sources were submitted by the facilities and reviewed by ACHD (and PA DEP for facilities immediately outside Allegheny County). All emissions changes are tons per year of primary $PM_{2.5}$ only.

Corrections to coordinates were based on aerial and topographic maps. Corrections to stack parameters were based on stack tests or comparisons to other inventories.

<u>Distant EGU Corrections</u>

Distant EGU corrections involved the addition of condensable emissions and other corrections to large coal-fired power plant sources outside Allegheny County, several CMAQ grid cells away.

AES Beaver Valley Cogen Plant (CMAQ Cell: 102, 87)

- 140 tons condensibles added to 225-ft stacks

Allegheny Energy Armstrong Plant (CMAQ Cell: 96, 83)

- 1746 tons condensibles added to 1008-ft stack

Allegheny Energy Hatfield's Ferry Plant (CMAQ Cell: 97, 94)

- Stack height corrected to 700 ft -- 9184 tons condensibles added

Cardinal [AEP/Buckeye] Power Plant (CMAQ Cell: 103, 91)

- 557 tons condensibles added to 900-ft stack; coordinates corrected, approx. 2 km to the northwest
- 2797 tons condensibles added to 825-ft stacks; coordinates corrected, approx. 3 km to the north
- Coordinates corrected for all other sources, approx. 3 km to the north

Homer City [Edison] Plant (CMAQ Cell: 94, 87)

- 403 tons condensibles added to 850-ft stack
- 5653 tons condensibles added to 800-ft stack

Monongahela Power [Allegheny Energy] Ft. Martin Plant (CMAQ Cell: 97, 95)

- 4866 tons condensibles added to 550-ft stack

Ohio Power [AEP] Kammer Plant (CMAQ Cell: 104, 95)

- 2038 tons condensibles added to 900-ft stack; coordinates corrected, approx. 0.1 km to the south

Ohio Power [AEP] Mitchell Plant (CMAQ Cell: 104, 95)

- 2199 tons condensibles added to 1200-ft stack; coordinates corrected, approx. 0.3 km to the southwest

Orion Power [Reliant] New Castle Plant (CMAQ Cell: 102, 84)

- Stack parameters corrected for 750-ft stack, based on information submitted by Reliant Energy (RRI) -- 1305 tons condensibles added
- Stack parameters corrected for 20-ft stack, based on information submitted by Reliant Energy (RRI)

PA Power [First Energy] Bruce Mansfield Plant (CMAQ Cell: 102, 87)

- 979 tons condensibles added to 950-ft stack
- 510 tons condensibles added to 600-ft stack
- Stack parameters corrected, based on information submitted by First Energy
- Coordinates corrected, approx. 0.3 km to the east

R.E. Burger [First Energy] Plant (CMAQ Cell 103, 94)

- 2141 tons condensibles added to 850-ft stack; stack parameters corrected, based on information submitted by First Energy
- Coordinates corrected, approx. 3 km to the east-northeast

Orion Power [Reliant] Cheswick Plant (CMAQ Cell: 98, 87)

- Stack parameters corrected for 750-ft stack, based on information submitted by Reliant Energy (RRI)

Reliant Energy Keystone Power Plant (CMAQ Cell: 95, 85)

- Stack parameters corrected for 800-ft stack, based on information submitted by Reliant Energy (RRI) -- 8253 tons condensibles added

W.H. Sammis [First Energy] Plant (CMAQ Cell: 103, 88)

- 2393 tons condensibles added to 1000-ft stack
- 1282 tons condensibles added to 850-ft stack
- 2014 tons condensibles added to 504-ft stacks
- Stack parameters corrected, based on information submitted by First Energy
- Coordinates corrected for boiler stacks (within 0.1 km), based on aerial maps

<u>Nearby EGU Corrections</u>

Nearby EGU corrections involved the addition of condensable emissions to large coal-fired power plant sources outside Allegheny County but within one CMAQ grid cell of the Liberty-Clairton area.

Allegheny Energy Mitchell Plant (CMAQ Cell: 98, 90)

- 132 tons condensibles added to 375-ft stack, based on estimates submitted by Allegheny Energy

Orion Power [Reliant Energy] Elrama Plant (CMAQ Cell: 98, 90)

- 338 tons condensibles added to 392-ft stack and temperature corrected, based on stack tests submitted by Reliant Energy (RRI)

U.S. Steel Clairton Works Corrections

U.S. Steel Clairton Works is in the Liberty-Clairton CMAQ grid cell (98, 89) and is the largest source within the Liberty-Clairton nonattainment area. Most sources were corrected to more accurate coordinates, and building parameters were included for stacks.

Quench Towers

- 1714 tons added, based on stack tests and revised emission factors for condensibles
- Exit velocities and temperatures corrected, based on stack tests and revised emissions factors

Battery Lines

- Hot car, uncontrolled/controlled pushing, and battery fugitives were combined and modeled as buoyant line sources for each of the batteries lines (5 total)
- Total $PM_{2.5}$ reduced by 44 tons, based on stack tests and revised emission factors

Battery Underfire (Combustion) Stacks

- Total $PM_{2.5}$ increased by 100 tons, based on stack tests and revised emission factors

Desulfurization SCOT Stack

- Total $PM_{2.5}$ increased by 1 ton, based on stack test and 2004 inventory

Miscellaneous (Ambient Temp.) Fugitives

- Sources modeled as volume and area sources, based on previous PM_{10} SIP modeling
- Total $PM_{2.5}$ reduced by 12 tons, based on revised emission factors

Nearby Non-EGU Corrections

Nearby non-EGU corrections involved minor emission changes, corrections to coordinates, and the addition of building parameters for sources within or adjacent to the Liberty-Clairton area and CMAQ grid cell (98, 89).

Nash Elmo U.S. (CMAQ Cell: 98, 90)

- 2 tons total $PM_{2.5}$ added to trucking emissions

Clairton Slag (CMAQ Cell: 98, 90)

- 4 tons total $PM_{2.5}$ added to unloading operations, based on MANE-VU/ACHD inventory comparison

Kinder Morgan (CMAQ Cell: 98, 89)

- 1 ton total $PM_{2.5}$ decreased from heaters, based on MANE-VU/ACHD inventory comparison
- Coordinates corrected (approx. 0.1 km)

Jefferson Hospital (CMAQ Cell: 98, 89)

- Coordinates corrected (from CMAQ cell 99, 90), approx. 15 km to the east (into CMAQ cell 98, 89), from 150 domain into 20 km domain

Pennsylvania Electric Coil (CMAQ Cell: 98, 89)

- Coordinates corrected (from CMAQ cell 99, 89), approx. 13 km to the southeast (into CMAQ cell 98, 89), from 150 km domain into 20 km domain
- Building parameters added

Allderdice School (CMAQ Cell: 98, 88)

- Coordinates corrected (from CMAQ cell 98, 89), approx. 6 km to the northeast (into CMAQ cell 98, 88)

UPMC McKeesport Hospital (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.5 km)

Precoat Metals (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.2 km), building parameters added

Mid-Continent Coal and Coke (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.3 km)

Koppers (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.1 km), building parameters added

U.S. Steel Irvin Works (CMAQ Cell: 98, 89)

- Building parameters added

U.S. Steel Edgar Thomson Works (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.2 km), building parameters added

Kelly Run (CMAQ Cell: 98, 90)

- Coordinates corrected (approx. 0.2 km)

Dura-Bond (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.1 km), building parameters

CP Industries (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.1 km), building parameters

Bettis Laboratory (CMAQ Cell: 98, 89)

- Coordinates corrected (approx. 0.1 km)

Nextech (CMAQ Cell: 98, 88)

- Coordinates corrected (approx. 0.2 km)

G.E. Apparatus (CMAQ Cell: 98, 88)

- Coordinates corrected (approx. 0.3 km)

Whemco (CMAQ Cell: 98, 88)

- Coordinates corrected (approx. 0.1 km)

Distant Non-EGU Corrections

Distant sources outside Allegheny County were mapped, and corrections were made to large errors in coordinates.

Texas Eastern Transmission (CMAQ Cell: 96, 86)

- Coordinates corrected, approx. 24 km to the south-southwest, from Armstrong into Westmoreland County (but correctly listed as Westmoreland Co. in MANE-VU)

Minor Sources Additions

The following sources are minor sources in the Liberty-Clairton area (CMAQ cell: 98, 89) that were not included in the MANE-VU inventory but have been added to the ACHD inventory.

- AKJ Industries, < 1 ton total $PM_{2.5}$
- ELG Metals, 1 ton total $PM_{2.5}$
- Mon Valley Transportation Center, 4 tons total $PM_{2.5}$

2014 Inventory Revisions

The largest revisions to the future projected 2014 inventory involved corrections to EGUs and to local sources near Liberty-Clairton. Like the 2002 inventory, revisions to the local sources were the most significant on Liberty-Clairton receptor impacts.

Projected 2012 emissions for EGUs included condensibles for PA and OH sources, unlike the baseline 2002 inventory. Condensibles were missing for WV EGUs, however, in which case 2002 condensibles were added. Corrections to local sources included revisions from 2002, along with proposed reductions from source modifications. All emissions changes are tons per year of primary $PM_{2.5}$ only.

Distant EGU Corrections

Distant EGU corrections involved the addition of condensable emissions, corrections to coordinates, and newer stacks for large coal-fired power plant sources inside and outside Allegheny County, more than one CMAQ grid cell away.

Allegheny Energy Hatfield's Ferry Plant (CMAQ Cell: 97, 94)

- Boiler stack corrected for flue gas desulfurization system, based on information submitted by PA DEP

Cardinal [AEP/Buckeye] Power Plant (CMAQ Cell: 103, 91)

- 900-ft stack added, with 787 tons total $PM_{2.5}$ – was missing due to incorrect coordinates (outside modeling domain)
- 825-ft stack [2] added, with 652 tons total $PM_{2.5}$ – was missing due to incorrect coordinates (outside modeling domain)
- Exit velocity corrected for 825-ft stack [1], based on 2002 inventory; coordinates corrected, approx. 3 km to the north
- Coordinates corrected for all other sources, approx. 3 km to the north

Monongahela Power [Allegheny Energy] Ft. Martin Plant (CMAQ Cell: 97, 95)

- 4866 tons condensibles added to 550-ft stack
- Coordinates corrected, approx. 5 km to the north

Ohio Power [AEP] Kammer Plant (CMAQ Cell: 104, 95)

- 2038 tons condensibles added to 900-ft stack; coordinates corrected, approx. 0.5 km to the northeast

Ohio Power [AEP] Mitchell Plant (CMAQ Cell: 104, 95)

- 2199 tons condensibles added to 1200-ft stack; coordinates corrected, approx. 0.3 km to the southwest

Orion Power [Reliant] New Castle Plant (CMAQ Cell: 102, 84)

- Stack parameters corrected for 750-ft stack and 20-ft stack, based on information submitted by Reliant Energy (RRI)

Orion Power [Reliant] Cheswick Plant (CMAQ Cell: 98, 87)

- Boiler stack and emissions corrected (reduced by 110 tons) for flue gas desulfurization system, based on information submitted by Reliant Energy (RRI)

PA Power [First Energy] Bruce Mansfield Plant (CMAQ Cell: 102, 87)

- Stack parameters corrected, based on information submitted by First Energy
- Coordinates corrected, approx. 0.3 km to the east

Reliant Energy Keystone Power Plant (CMAQ Cell: 95, 85)

- Boiler stack and emissions corrected (reduced by 342 tons) for flue gas desulfurization system, based on information submitted by Reliant Energy (RRI)

R.E. Burger [First Energy] Plant (CMAQ Cell 103, 94)

- 715 tons total $PM_{2.5}$ added to 850-ft stack (additional 850-ft stack deleted); stack parameters corrected based on information submitted by First Energy
- Coordinates corrected, approx. 3 km to the east-northeast

W.H. Sammis [First Energy] Plant (CMAQ Cell: 103, 88)

- New 850-ft stack added (single stack for all boilers), based on information submitted by First Energy
- 1000-ft stack deleted, emissions from 504-ft stack transferred to new 850-ft stack
- Additional 1507 tons total $PM_{2.5}$ transferred to 850-ft stack – was missing due to incorrect coordinates (outside modeling domain)

Nearby EGU Corrections

Nearby EGU corrections involved the correction of projected emissions to large coal-fired power plant sources outside Allegheny County but within one CMAQ grid cell of the Liberty-Clairton area.

Allegheny Energy Mitchell Plant (CMAQ Cell: 98, 90)

- 127 tons removed from 375-ft stack, based on projections submitted by Allegheny Energy

Orion Power [Reliant Energy] Elrama Plant (CMAQ Cell: 98, 90)

- 52 tons removed from 392-ft stack, based on projections submitted by Reliant Energy (RRI); temperature corrected

U.S. Steel Clairton Works Corrections

U.S. Steel Clairton Works is in the Liberty-Clairton CMAQ grid cell (98, 89) and is the largest source within the Liberty-Clairton nonattainment area. All sources were corrected to more accurate coordinates, and building parameters were included for stacks.

The proposed modifications at Clairton Works involve the shutdown of one battery line, the installation of a new battery line, and the replacement of two existing quench towers. Changes in battery configurations include changes in associated processes, such as quenching and underfiring. ACHD emissions are increases in comparison to MANE-VU but are reductions in comparison to baseline ACHD 2002 values.

Quench Towers

- Quenches 3, 5, 7 removed, new Quenches C, 5A, & 7A added
- Total $PM_{2.5}$ increased by 862 tons, based on proposed configuration
- Exit velocities and temperatures corrected for the existing towers, based on stack tests and revised emissions factors

Battery Lines

- Batteries 7-9 removed, new C Battery added
- Hot car, uncontrolled/controlled pushing, and battery fugitives were combined and modeled as buoyant line sources for the existing batteries lines (4 total)
- Total $PM_{2.5}$ reduced by 29 tons, based on proposed configuration

Battery Underfire (Combustion) Stacks

- Underfiring combustion stacks 7-9 removed, new C stack added
- Total $PM_{2.5}$ increased by 58 tons, based on proposed configuration

PEC Baghouse Stacks

- Baghouse stacks for 7-9 removed, new C stack added, based proposed configuration

Miscellaneous (Ambient Temp.) Fugitives

- Sources modeled as volume and area sources, based on previous PM_{10} SIP modeling
- Total $PM_{2.5}$ reduced by 23 tons, based proposed configuration

Mobile Source Emissions

- Heavy duty vehicle and tug boat emissions corrected, based on 2008 fuel usage
- Total $PM_{2.5}$ reduced by 10 tons

Boilers

- Total $PM_{2.5}$ increased by 29 tons to match 2002 inventory

Desulfurization SCOT Stack

- Total $PM_{2.5}$ increased by 1 ton to match 2002 inventory

Nearby Non-EGU, Distant Non-EGU, and Minor Source Corrections

All corrections to other non-EGU sources were identical to those in the 2002 baseline inventory.

Shutdowns

Additional corrections for 2014 included sources that ceased operations since the baseline case, with zero banked emissions and no plans to restart operations. These sources were removed from the future case model runs.

- Best Feeds (CMAQ Cell:100, 89), reduction of 1 ton total $PM_{2.5}$
- Reichhold (CMAQ Cell:100, 89), reduction of 24 tons total $PM_{2.5}$
- Box USA (CMAQ Cell: 98, 88), reduction of 6 tons total $PM_{2.5}$
- Marsh Asphalt (CMAQ Cell: 98, 89), reduction of 5 tons total $PM_{2.5}$
- Lozier (CMAQ Cell: 99, 89), reduction of <1 ton total $PM_{2.5}$
- Mon Valley Transportation Center, 4 tons total $PM_{2.5}$

Detailed Clairton SIP Inventory Changes, Baseline 2002

U.S. Steel Clairton
2002 SIP Base Year PM2.5 Emission Inventory
Changes Due to Revised Methodology

Nomenclature Note:

"$PM_{2.5}$" is the same as "$PM_{2.5}$-FIL," both referring to the portion of filterable particulate that is less than 2.5 microns effective diameter. PM-CON is condensable particulate, which is assumed to be entirely < 2.5 microns. "$PM_{2.5}$-PRI" is total primary $PM_{2.5}$, including filterable and condensable emissions.

Soaking

EIS did not estimate particulate emissions for 2002. For 2007, EIS estimated emissions using estimated soot concentrations from AP-42 Sec. 13.5. Batteries 13-15 were treated as lightly smoking flares. All other batteries were treated as heavily smoking flares. The resulting emission factors were 0.00047 lb PT/ton coal charged for Batteries 13-15 and 0.00325 lb PT/ton coal charged for all other batteries. All particulate from soaking was assumed to be < 2.5 µm.

Change from NEI Inventory

$PM_{2.5}$-FIL 8.16 TPY

Underfiring

EIS increased the particle size fractions based on 2006 data provided by U.S. Steel. The previous data was collected by R.J. Lee during the 1990's using the CCSEM method, which tends to agglomerate particles during sample preparation. The 2006 data used PM_{10} and $PM_{2.5}$ cyclones. The average $PM_{2.5}$ fractions were 0.15 from the 1990's data and 0.82 from the 2006 data.

Change from NEI Inventory

$PM_{2.5}$-FIL 100.16 TPY

Traveling Hot Car

EIS adopted the methodology proposed by H.R. McCollum of U.S. Steel during the installation permit process for Battery C. This methodology treated hot car emissions as combustion emissions. This calculation treated hot car emissions as a combustion process, with amounts of carbon and hydrogen combusted estimated from PEC Baghouse test data collected at two coke facilities. U.S. Steel summed the carbon and hydrogen burned per ton coke per sec of pushing (65 sec/push), multiplied the total by emission factors from AP-42 Section 1.1 (9/98) for overfeed stokers, and then multiplied by the total hot car travel time during a year to calculate emissions of each pollutant in tons per year. U.S. Steel estimated hot car travel times of 14,378 sec/day for all batteries except B and 3,735 sec/day for Battery B.

EIS modified this calculation. First, EIS considered PMCOND to be emitted mainly from uncombusted gases released from the coke, and retained the "10% of PEC" estimate. U.S. Steel also retained this estimate for VOC. Second, EIS excluded hydrogen from the total combusted, thus including only carbon. This adjustment resulted in a reduction of about 12% from the emissions reported by U.S. Steel.

Change from NEI Inventory

$PM_{2.5}$-FIL (52.31) TPY

Pushing Fugitives

EIS calculated pushing fugitives using assumed capture efficiencies of 95% for Battery B and 88% for all other batteries. Prior to the 2007 inventory, baghouse dust collection was assumed to be 1.5 lb/ton coal charged based on limited data provided in a letter from U.S. Steel in 1992. For 2007, the dust collection was reduced to 0.98 – 1.1 lb/ton coal charged, varying by battery group, based on the average reported Ball Mill throughputs for 2003-2007. EIS revised the 2002 emissions using the emission factors from Ball Mill throughputs.

Change from NEI Inventory

$PM_{2.5}$-FIL (27.00) TPY

Quench Towers

EIS adjusted quench tower emissions based on the 2007 stack test at the Battery B quench tower and on dirty baffles during 2002. The Battery B stack test reduced emissions from the AP-42 value of 0.31 lb/ton for clean water and proper maintenance to 0.0785 lb PT/ton coal charged. In 2002, however, baffles were washed at Battery B only. EIS adjusted emissions by the ratio from AP-42 Table 12.2-12 of the emission factor for "uncontrolled, clean water" to the factor for "clean water, normal tower height, and proper maintenance," a ratio of 3.55. The $PM_{2.5}$ fraction was unchanged.

PM-CON emissions were also adjusted based on the 2007 stack test (but not for dirty baffles, since this condition was assumed to affect only filterable particulates). This adjustment resulted in a large increase in the emission factor, from 0.00031 to 0.56 lb/ton coal charged. The 2002 emission factor was equal to the sum of POM emissions, which were calculated using speciation data from 1970's quench tower tests.

Change from NEI Inventory

PM-CON 1,728.04 TPY

Material Handling – PM2.5 Fraction

The $PM_{2.5}$ fraction for transfers was reduced by a factor of 2 in the 11/06 revision of AP-42 Sec. 13.2.4 due to new particle size data collected using the cyclone/impactor method rather than the federal reference method (FRM). See http://www.epa.gov/ttn/chief/ap42/ch13/bgdocs/b13s02.pdf for a detailed explanation of this change.

Change from NEI Inventory

$PM_{2.5}$-FIL (3.44) TPY

Coal and Coke Pile Erosion

Coal pile erosion was zeroed out and coke pile erosion reduced by applying the calculation from AP-42 Sec. 13.2.5 (1/95) using a 1990-91 study. This study showed that the friction velocity exceeded the threshold for emissions on only a single day in an entire year for the coal pile and on 21 days during the same year for the coke pile. PM_{10} and $PM_{2.5}$ emissions from the coke pile were calculated using particle size multipliers from AP-42 Sec. 13.2.4, 11/06.

Change from NEI Inventory

$PM_{2.5}$-FIL (5.74) TPY

Paved Roads

The original 2002 inventory used the reported emission factors for PT and PM_{10} and the ratio of $PM_{2.5}$ to $PM_{10,}$ 26% from the latest AP-42 Sec. 13.2.1. The $PM_{2.5}$ to PM_{10} ratio was reduced to 15% in the 11/06 update. Also, per discussions with U.S. Steel personnel for the 2007 inventory, the silt loading was reduced from 9.7 to 7.4 g/m^2, the value from AP-42 Table 13.2.1-4 for municipal solid waste landfills.

Change from NEI Inventory

$PM_{2.5}$-FIL	**(3.42) TPY**

Unpaved Roads

The emissions were revised using the 11/06 update of AP-42 Sec. 13.2.2, with a reduced particle size multiplier for $PM_{2.5}$ for similar reasons as for material transfers.

Change from NEI Inventory

$PM_{2.5}$-FIL	**(0.42) TPY**

Overall Changes

$PM_{2.5}$-FIL	**15.99 TPY**
PM-CON	**1,728.04 TPY**
$PM_{2.5}$-PRI	**1,744.03 TPY**

US Steel Clairton Works Baseline (2002 Revised) Processes

Emission Source (2002)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Batteries 1-3						
Battery #1 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.67965	0.90000				
Topside Leaks	0.02105	0.02800				
Soaking	0.60117					
Decarbonizing		0.00000				
Battery #2 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.76761	1.02000				
Topside Leaks	0.02330	0.03100				
Soaking	0.60117					
Decarbonizing		0.00000				
Battery #3 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.73562	0.98000				
Topside Leaks	0.02405	0.03200				
Soaking	0.60117					
Decarbonizing		0.00000				
PEC System, Batt. 1-3						
Traveling Hot Car	2.99659	0.05549				
PEC Fugitives	13.80488	0.15781				
Uncontrolled Pushing	0.72799	0.00914				
Pre-Push 1-3	0.06659	5.10531	30.199608	6.8949	BATT1	Includes pre-push, based on C Battery design
Batteries 7-9						
Battery #7 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.68765	0.92000				

Emission Source (2002)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Topside Leaks	0.01879	0.02500				
Soaking	0.59132					
Decarbonizing		0.00000				
Battery #8 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.66366	0.89000				
Topside Leaks	0.02781	0.03700				
Soaking	0.59132					
Decarbonizing		0.00000				
Battery #9 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.71164	0.95000				
Topside Leaks	0.02781	0.03700				
Soaking	0.59132					
Decarbonizing		0.00000				
PEC System, Batt. 7-9						
Traveling Hot Car	2.94750	0.05458				
PEC Fugitives	13.32203	0.20720				
Uncontrolled Pushing	0.60069	0.01006				
Pre-Push 7-9	0.06550	5.02166	29.229545	6.6734	BATT7	Includes pre-push, based on C Battery design
Batteries 13-15						
Battery #13 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.68765	0.90501				
Topside Leaks	0.02180	0.02900				
Soaking	0.10443					
Decarbonizing		0.00000				
Battery #14 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.70364	0.94000				
Topside Leaks	0.02029	0.02700				

Emission Source (2002)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Soaking	0.10443					
Decarbonizing		0.00000				
Battery #15 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.73562	0.92816				
Topside Leaks	0.01954	0.02600				
Soaking	0.10443					
Decarbonizing		0.00000				
PEC System, Batt. 13-15						
Traveling Hot Car	3.59934	0.06665				
PEC Fugitives	15.79941	0.22103				
Uncontrolled Pushing	0.94164	0.01380				
Pre-Push 13-15	0.07999	6.13221	32.441087	7.4066	BATT13	Includes pre-push, based on C Battery design
Batteries 19-20						
Battery #19 fugitives						
Charging	0.05186	0.06900				
Door Leaks	1.12742	1.50000				
Topside Leaks	0.02555	0.03400				
Soaking	1.16056					
Decarbonizing		0.00000				
Battery #20 fugitives						
Charging	0.05186	0.06900				
Door Leaks	1.03234	1.37349				
Topside Leaks	0.03082	0.04100				
Soaking	1.16056					
Decarbonizing		0.00000				
PEC System, Batt. 19-20						
Traveling Hot Car	3.85664	0.07142				
PEC Fugitives	17.15808	0.23673				
Uncontrolled Pushing	1.59566	0.01565				
Pre-Push 19-20	0.08570	6.57058	37.317932	8.5201	BATT19	Includes pre-push, based on C Battery design

Emission Source (2002)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
B Battery						
Battery B fugitives						
Charging	0.04961	0.06600				
Door Leaks	0.33583	1.31000				
Topside Leaks	0.00902	0.01200				
Soaking	1.94784					
Decarbonizing		0.00000				
PEC System, Battery B						
Traveling Hot Car	2.45728	0.04195				
PEC Fugitives	5.16175	0.20020				
Uncontrolled Pushing	0.02413	0.00024				
Pre-Push B	0.07192	5.51389	17.201657	3.9273	BBATT	Includes pre-push, based on C Battery design
PEC Baghouses						
PEC Baghouse 1 -3	0.79380	1.15730	1.951090	0.4455	PEC1	
PEC Baghouse 7-9	0.54587	1.51948	2.065345	0.4715	PEC7	
PEC Baghouse 13-15	1.00477	1.62089	2.625659	0.5995	PEC13	
PEC Baghouse 19-20	1.11985	1.73600	2.855850	0.6520	PEC19	
PEC Baghouse B	8.03219	1.46816	9.500356	2.1690	PECB	
Ball Mills						
Ball Mill 1-3	0.30266		0.302660	0.0691	BALL1	
Ball Mill 7-9	0.33720		0.337200	0.0770	BALL7	
Ball Mill 13-15	0.45240		0.452400	0.1033	BALL13	
Ball Mill 19-20	0.46824		0.468240	0.1069	BALL19	
Ball Mill B	0.60648		0.606480	0.1385	BALLB	
Battery Underfiring						
Battery #1 Stack	10.82660	3.50567	14.332271	3.2722	COMB1	
Battery #2 Stack	18.07656	3.50567	21.582228	4.9274	COMB2	
Battery #3 Stack	9.64122	3.50567	13.146886	3.0016	COMB3	

Emission Source (2002)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Battery #7 Stack	10.28341	3.21425	13.497655	3.0817	COMB7	
Battery #8 Stack	9.71524	3.21425	12.929488	2.9519	COMB8	
Battery #9 Stack	6.51867	3.21425	9.732923	2.2221	COMB9	
Battery #13 Stack	5.74258	3.15250	8.895079	2.0308	COMB13	
Battery #14 Stack	5.62983	3.15250	8.782326	2.0051	COMB14	
Battery #15 Stack	4.70042	3.15250	7.852917	1.7929	COMB15	
Battery #19 Stack	15.66740	6.39925	22.066652	5.0380	COMB19	
Battery #20 Stack	11.12191	6.39925	17.521156	4.0003	COMB20	
Battery B Stack	14.69813	9.01063	23.708759	5.4130	COMBB	
Quenching						
Quench Tower #1	9.27440	311.25715	320.531552	73.1807	QNCH1	Based on B stack test, with no baffle washing
Quench Tower #3	9.12245	306.15745	315.279895	71.9817	QNCH3	Based on B stack test, with no baffle washing
Quench Tower #5	11.13990	373.86509	385.004993	87.9007	QNCH5	Based on B stack test, with no baffle washing
Quench Tower #7	11.93624	400.59085	412.527092	94.1843	QNCH7	Based on B stack test, with no baffle washing
Quench Tower B	2.82287	336.16728	338.990152	77.3950	QNCHB	Based on B stack test, includes baffle washing
Boilers						
Boiler #1						
COG	10.10957	11.77638				
NG	0.33725	1.01175	23.234940	5.3048	BOILR1	
No. 2 Fuel Oil						
Boiler #2						
COG	7.92500	9.23163				
NG	0.26600	0.79800	18.220620	4.1600	BOILR2	
Coal						
Boiler R-1						
COG	0.31250	0.36400				
NG	0.00000	0.00000	0.676500	0.1544	BOILRR	
Boiler R-2						
COG	0.19530	0.22750				
NG	0.00000	0.00000	0.422800	0.0965	BOILRR	

Emission Source (2002)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Boiler T-1						
COG	0.18972	0.22100				
NG	0.00000	0.00000	0.410720	0.0938	BOILT1	
Boiler T-2						
COG	0.18972	0.22100				
NG	0.00000	0.00000	0.410720	0.0938	BOILT2	
MATERIAL HANDLING						
#1 Unloader	0.09461		0.094610	0.0216	UNLOA1	
#2 Unloader	0.07684		0.076838	0.0175	UNLOA2	
Coal Transfer	0.24272		0.242719	0.0554	COLTR	
Coal Storage, Bins/Bunkers	0.00132		0.001324	0.0003	COLER	Area = 14,375 m²
Coal Storage, Pile Erosion	0.00000		0.000000	0.0000	COLER	
Pedestal Crane	0.00857		0.008572	0.0020	CONVEY	
Clamshell Unloader	0.02572		0.025717	0.0059	CONVEY	
Front End Loader to Truck	0.02487		0.024874	0.0057	CONVEY	
Truck to Hopper	0.02487		0.024874	0.0057	CONVEY	
Hopper to Conveyor	0.01244		0.012437	0.0028	CONVEY	
Conveyor to Barge	0.02487		0.024874	0.0057	CONVEY	
#1 Pulverizer - Primary	0.09048		0.090484	0.0207	PULV1P	
#1 Pulverizer - Secondary	0.00000		0.000000	0.0000	PULV1S	
#2 Pulverizer - Primary	0.10407		0.104068	0.0238	PULV2P	
#2 Pulverizer - Secondary	0.00000		0.000000	0.0000	PULV2S	
Coke Transfer: 1-3, 7-9, B	1.31263		1.312630	0.2997	COKTR	Area = 19,000 m²
Coke Transfer: 13-15, 19-20	1.08420		1.084198	0.2475	COKTR	Area = 19,000 m²
Coke Pile, Load/Unload	0.01074		0.010743	0.0025	COKER	Area = 15,000 m²
Coke Pile Erosion	0.41000		0.410000	0.0936	COKER	Area = 15,000 m²

Emission Source (2002)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Screening Station 1 (1-3, 7-9)	1.26791		1.267906	0.2895	SCRN1	
Screening Station 1 Loadout	0.04056		0.040562	0.0093	SCRN1	
Screening Station 2 (13-15, 19-20)	1.58948		1.589475	0.3629	SCRN2	
Screening Station 2 Loadout	0.05085		0.050849	0.0116	SCRN2	
Screening Station B Baghouse	0.68152		0.681524	0.1556	SCRN3	
Screening Station B Loadout	0.02100		0.021001	0.0048	LOADB	
Screening B Fugitives	0.09847		0.098469	0.0225	LOADB	
MISCELLANEOUS						
Roads - Paved	0.44000		0.440000	0.1005	ROAD	
Roads - Unpaved	0.29000		0.290000	0.0662	ROAD	
Heavy Duty Motor Vehicles	6.25000	6.25000	12.500000	2.8539	MOBL	
Tug Boat Exhaust	2.60000	2.60000	5.200000	1.1872	MOBL	
Blasting - Black Beauty	0.06000		0.060000	0.0137	BLAST	
WWT Surge Tank, Ammonia Flare	0.00700		0.007000	0.0016	WWT	
Cooling Tower	0.31000		0.310000	0.0708	CLTWR	
SCOT Stack	3.40000		3.400000	0.7763	SCOT	

US Steel Clairton Works Future (2014) Processes

Emission Source (2014)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Batteries 1-3						
Battery #1 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.67965	0.90000				
Topside Leaks	0.02105	0.02800				
Soaking	0.60117					
Decarbonizing		0.00000				
Battery #2 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.76761	1.02000				
Topside Leaks	0.02330	0.03100				
Soaking	0.60117					
Decarbonizing		0.00000				
Battery #3 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.73562	0.98000				
Topside Leaks	0.02405	0.03200				
Soaking	0.60117					
Decarbonizing		0.00000				
PEC System, Batt. 1-3						
Traveling Hot Car	2.99659	0.05549				
PEC Fugitives	13.80488	0.15781				
Uncontrolled Pushing	0.72799	0.00914				
Pre-Push 1-3	0.06659	5.10531	30.199608	6.8949	BATT1	
Batteries 13-15						
Battery #13 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.68765	0.90501				

Emission Source (2014)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Topside Leaks	0.02180	0.02900				
Soaking	0.10443					
Decarbonizing		0.00000				
Battery #14 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.70364	0.94000				
Topside Leaks	0.02029	0.02700				
Soaking	0.10443					
Decarbonizing		0.00000				
Battery #15 fugitives						
Charging	0.03290	0.04377				
Door Leaks	0.73562	0.92816				
Topside Leaks	0.01954	0.02600				
Soaking	0.10443					
Decarbonizing		0.00000				
PEC System, Batt. 13-15						
Traveling Hot Car	3.59934	0.06665				
PEC Fugitives	15.79941	0.22103				
Uncontrolled Pushing	0.94164	0.01380				
Pre-Push	0.07999	6.13221	32.441087	7.4066	BATT13	
Batteries 19-20						
Battery #19 fugitives						
Charging	0.05186	0.06900				
Door Leaks	0.60521	0.80521				Based on rebuilds, B stack test
Topside Leaks	0.02555	0.03400				
Soaking	1.16056					
Decarbonizing		0.00000				
Battery #20 fugitives						
Charging	0.05186	0.06900				
Door Leaks	1.03234	1.37349				
Topside Leaks	0.03082	0.04100				

Emission Source (2014)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Soaking	1.16056					
Decarbonizing		0.00000				
PEC System, Batt. 19-20						
Traveling Hot Car	3.85664	0.07142				
PEC Fugitives	17.15808	0.23673				
Uncontrolled Pushing	1.59566	0.01565				
Pre-Push	0.08570	6.57058	36.100920	8.2423	BATT19	
B Battery						
Battery B fugitives						
Charging	0.04961	0.06600				
Door Leaks	0.18034	0.70349				Based on rebuilds, B stack test
Topside Leaks	0.00902	0.01200				
Soaking	1.94784					
Decarbonizing		0.00000				
PEC System, Battery B						
Traveling Hot Car	2.45728	0.04195				
PEC Fugitives	3.20658	0.12437				Based on rebuilds, B stack test
Uncontrolled Pushing	0.02413	0.00024				
Pre-Push	0.07192	5.51389	14.408660	3.2896	BBATT	
C Battery						
PEC Fugitives						
Traveling						
Soaking						
Fugitives			50.592066	11.5507	CBATT	Based on C Battery permit
PEC Baghouses						
PEC Baghouse 1-3	0.79380	1.15730	1.951090	0.4455	PEC1	
PEC Baghouse 13-15	1.00477	1.62089	2.625659	0.5995	PEC13	
PEC Baghouse 19-20	1.11985	1.73600	2.855850	0.6520	PEC19	
PEC Baghouse B			5.901174	1.3473	PECB	Based on rebuilds, B stack test

Emission Source (2014)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
PEC Baghouse C			6.136380	1.4010	PECC	Based on C Battery permit
Ball Mills						
Ball Mill 1-3	0.30266		0.302660	0.0691	BALL1	
Ball Mill 13-15	0.45240		0.452400	0.1033	BALL13	
Ball Mill 19-20	0.46824		0.468240	0.1069	BALL19	
Ball Mill B	0.60648		0.606480	0.1385	BALLB	
Ball Mill C	0.01708		0.017082	0.0039	BALLC	Based on C permit/applications
Battery Underfiring						
Battery #1 Stack	10.82660	3.50567	14.332271	3.2722	COMB1	
Battery #2 Stack	18.07656	3.50567	21.582228	4.9274	COMB2	
Battery #3 Stack	9.64122	3.50567	13.146886	3.0016	COMB3	
Battery #13 Stack	5.74258	3.15250	8.895079	2.0308	COMB13	
Battery #14 Stack	5.62983	3.15250	8.782326	2.0051	COMB14	
Battery #15 Stack	4.70042	3.15250	7.852917	1.7929	COMB15	
Battery #19 Stack			11.850090	2.7055	COMB19	Based on rebuilds, B stack test
Battery #20 Stack	11.12191	6.39925	17.521156	4.0003	COMB20	
B Battery Stack			12.730032	2.9064	COMBB	Based on rebuilds, B stack test
C Battery Stack			16.639620	3.7990	COMBC	Based on C Battery permit
Quenching						
Quench Tower #1			274.845000	62.7500	QNCH1	Based on B stack test, including baffle washing
Quench Tower #5A			102.102180	23.3110	QNCH5A	New tower, based on C Tower
Quench Tower #7A			102.500760	23.4020	QNCH7A	New tower, based on C Tower
Quench Tower B	2.82287	336.16728	338.990152	77.3950	QNCHB	
Quench Tower C			102.760932	23.4614	QNCHC	Based on C Battery permit
Boilers						
Boiler #1						
COG	10.10957	11.77638				
NG	0.33725	1.01175	23.234940	5.3048	BOILR1	

Emission Source (2014)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
Boiler #2						
COG	7.92500	9.23163				
NG	0.26600	0.79800	18.220620	4.1600	BOILR2	
Boiler R-1						
COG	0.31250	0.36400				
NG	0.00000	0.00000	0.676500	0.1544	BOILRR	
Boiler R-2						
COG	0.19530	0.22750				
NG	0.00000	0.00000	0.422800	0.0965	BOILRR	
Boiler T-1						
COG	0.18972	0.22100				
NG	0.00000	0.00000	0.410720	0.0938	BOILT1	
Boiler T-2						
COG	0.18972	0.22100				
NG	0.00000	0.00000	0.410720	0.0938	BOILT2	
MATERIAL HANDLING						
#1 Unloader	0.10468		0.104682	0.0239	UNLOA1	C Battery + 2002
#2 Unloader	0.07684		0.076838	0.0175	UNLOA2	
Coal Transfer	0.25273		0.252726	0.0577	COLTR	C Battery + 2002
Coal Storage, Bins/Bunkers	0.00132		0.001324	0.0003	COLER	Area = 14,375 m²
Coal Storage, Pile Erosion	0.00000		0.000000	0.0000	COLER	0.0000 based on 2002 PM fractions
Pedestal Crane	0.00857		0.008572	0.0020	CONVEY	
Clamshell Unloader	0.03592		0.035916	0.0082	CONVEY	C Battery + 2002
Front End Loader to Truck	0.02487		0.024874	0.0057	CONVEY	
Truck to Hopper	0.02487		0.024874	0.0057	CONVEY	
Hopper to Conveyor	0.01244		0.012437	0.0028	CONVEY	
Conveyor to Barge	0.02487		0.024874	0.0057	CONVEY	

Emission Source (2014)	Filterable PM2.5	Condensible PM2.5	Sum PM2.5 (TPY)	Sum PM2.5 (lb/hr)	ACHD Model ID	Comments
#1 Pulverizer – Primary	0.10074		0.100740	0.0230	PULV1P	C Battery + 2002
#1 Pulverizer - Secondary	0.00000		0.000000	0.0000	PULV1S	
#2 Pulverizer - Primary	0.10407		0.104068	0.0238	PULV2P	
#2 Pulverizer - Secondary	0.00000		0.000000	0.0000	PULV2S	
Coke Transfer: 1-3, B, C	1.62542		1.625418	0.3711	COKTR	C Battery + 2002 1-3, B transfer; Area = 19000 m²
Coke Transfer: 13-15, 19-20	1.08420		1.084198	0.2475	COKTR	Area = 19000 m²
Coke Pile, Load/Unload	0.01074		0.010743	0.0025	COKER	Area = 15,000 m²
Coke Pile Erosion	0.96010		0.960096	0.2192	COKER	C Battery + 2002; Area = 15,000 m²
Screening Station 1 (1-3)	0.63422		0.634224	0.1448	SCRN1	1-3 only
Screening Station 1 Loadout	0.02059		0.020586	0.0047	SCRN1	1-3 only
Screening Station 2 (13-15, 19-20)	1.58948		1.589475	0.3629	SCRN2	
Screening Station 2 Loadout	0.05085		0.050849	0.0116	SCRN2	
Screening Station 4	0.14980		0.149796	0.0342	SCRN4	Based on C permit
Screening Station Loadout	0.10994		0.109938	0.0251	SCRN4	Based on C permit
MISCELLANEOUS						
Roads - Paved	0.44000		0.440000	0.1005	ROAD	
Roads - Unpaved	0.29000		0.290000	0.0662	ROAD	
Heavy Duty Motor Vehicles	2.82000	2.82000	5.640000	1.2877	MOBL	Based on 2008 diesel usage
Tug Boat Exhaust	2.19000	2.19000	4.380000	1.0000	MOBL	Based on 2008 diesel usage
Blasting - Black Beauty	0.06000		0.060000	0.0137	BLAST	
WWT Surge Tank, Ammonia Flare		0.00700	0.007000	0.0016	WWT	
Cooling Tower	0.31000		0.310000	0.0708	CLTWR	
SCOT Stack	3.40000		3.400000	0.7763	SCOT	

Specific EGU Revisions

Allegheny Energy Hatfield's Ferry

- Stack dimensions for FGD stack (at 100% load) taken from PA DEP Modeling Review

Hatfield Station Units 1-3 Stack Parameters

Fixed Stack Parameters

- UTM Easting: 591465 meters (NAD 27)
- UTM Northing: 4412209 meters (NAD 27)
- Base Elevation: 870 feet MSL
- Stack Height: 550 feet (minimum)
- Equivalent Exit Diameter[1]: 45.03 feet

Load-Dependent Stack Parameters

Parameter	Units	100% Load	80% Load	60% Load
English Units				
Exhaust Flow	ACFM	5,562,014	4,449,611	3,337,208
Exit Velocity	ft/sec	58.2	46.6	34.9
Exit Temperature	°F	131	131	131
Modeling Units				
Exit Velocity	m/sec	17.7	14.2	10.6
Exit Temperature	°K	328	328	328

Notes:

1. The equivalent exit diameter corresponds to an exit area equal to the sum of the exit areas of three individual flues. Individual flue diameter is 26 feet.
2. The annual condition is modeled assuming 100% load emissions and 100% stack parameters over the 8760 hour annual period.

RRI Energy

- Corrections shown in red as supplied by RRI Energy (formerly Reliant)
- Base year includes stack parameters and updated Elrama based on stack tests
- Future case includes FGDs at Cheswick and Keystone; projections for Elrama

Base Year 2002

Source_ID	UTMx (km)	UTMy (km)	Height (m)	Elev (m)	Diam (m)	Exit_Vel (m/s)	Temp (K)	Emissions (tons/yr)	Source	Reference
NEWCA1	553.211	4532.067	228.60	241	6.89	16.20	394.11	1315.752	Boilers 3, 4 & 5	Title V permit renewal app. (June 2005)
NEWCA2	553.211	4532.067	6.07	241	1.07	23.40	616.33	0.035	EMD A and B	
CHES1	602.379	4488.086	228.60	231	6.40	32.00	421.89	583.854	Boiler 1	Title V permit renewal app. (Oct. 1995)
CHES2	602.455	4488.109	60.96	231	0.61	28.04	629.67	0.040	Auxiliary Boiler	
KEYST1	640.174	4502.359	243.84	308	8.29	26.80	422.44	8700.826	Boilers 1 and 2	Title V permit renewal app. (Mar. 2005)
KEYST2	640.174	4502.359	83.82	308	2.13	15.86	616.33	0.553	Auxiliary Boiler	
KEYST3	640.174	4502.359	5.49	308	1.22	18.20	699.67	0.680	Diesels 3, 4, 5 and 6	
ELRAM1	592.001	4456.411	119.48	229	7.92	15.07	324.67	540.404	Boilers 1, 2, 3 and 4	Title V permit renewal app. (June 2006)

Projected Year 2012

Source_ID	UTMx (km)	UTMy (km)	Height (m)	Elev (m)	Diam (m)	Exit_Vel (m/s)	Temp (K)	Emissions (tons/yr)	Source	Reference
CHES1	602.379	4488.086	168.40	231	8.23	11.58	324.67	509.265	Boiler 1	FGD installation permit application (May 2006)
KEYST1	640.174	4502.359	171.45	308	10.34	30.57	325.22	1472.557	Boilers 1 and 2	FGD Plan Approval app. (Sept 2005)
ELRAM1	592.001	4456.411	119.48	229	7.92	15.07	324.67	398.580	Boilers 1, 2, 3 and 4	Projections for Elrama

Allegheny Energy Mitchell

- Submitted by Allegheny Energy

2002 Emissions Inventory:
Total coal combusted in Unit 33 = 534,314 tons
"As-burned" coal heating value = 12,451 Btu/lb (average)

Reported PM emissions = 80.0 tons
Reported PM_{10} emissions = 56.0 tons
Reported $PM_{2.5}$ emissions = **40.0 tons**

Emissions above calculated using emission factors based on AP-42, Table 1.3-1

2002 Condensable particulate matter (CPM) emissions estimate:

CPM_{total} = 0.02 lb/MMBtu (for "all PM controls combined with an FGD control")

Emission factor from AP-42, Table 1.1-5, *Condensable Particulate Matter for Bituminous and Sub-bituminous Coal Combustion*

Total heat input = (534,314 tons/yr) x (12,451 Btu/lb) x (2000 lb/ton) = 1.3305×10^{13} Btu/yr
Total heat input = 1.3305×10^{7} MMBtu/yr

2002 actual emissions:
CPM_{total} = (0.02 lb/MMBtu) x (13.305×10^{6} MMBtu/yr) x (1.0 ton/2000 lb) = **133.1 tons/yr**

For theoretical maximum PTE, use the boiler's MDHI of 2,988 MMBtu/hr:

(2,988 MMBtu/hr) x (8760 hr/yr) x (0.02 lb/MMBtu) x (1.0 ton/2000 lbs) = 261.75 tons/yr

2012 Condensable particulate matter (CPM) emissions estimate:

Future generation output was forecasted using a widely used commercially available software program (PROMOD), which was developed by New Energy Associates for use by electric utilities.

CPM_{total} = 0.02 lb/MMBtu (for "all PM controls combined with an FGD control")

Emission factor from AP-42, Table 1.1-5, *Condensable Particulate Matter for Bituminous and Sub-bituminous Coal Combustion*

Using PROMOD, for calendar year 2012:

Total heat input = 20,417,455 MMBtu/yr
Total coal consumption = 836,780 tons/yr
Assumed coal heating value = 12,200 Btu/lb

2012 projected actual emissions:
CPM_{total} = (0.02 lb/MMBtu) x (20,417,455 MMBtu/yr) x (1.0 ton/2000 lb) = **204.2 tons/yr**

For theoretical maximum PTE, use the boiler's MDHI of 2,988 MMBtu/hr:

(2,988 MMBtu/hr) x (8760 hr/yr) x (0.02 lb/MMBtu) x (1.0 ton/2000 lbs) = 261.75 tons/yr

First Energy

- Submitted by First Energy for the W.H. Sammis (OH), R.E. Burger (OH), and Bruce Mansfield (PA) plants.
-

First Energy - Baseline Case

Corrections to Stack Parameters

	Easting (km)	*Northing (km)*	*height (ft)*	*Base (ft)*	*Stk Dia (ft)*	*Exit Vel (ft/sec)* [5]	Temp (F) [5]		
Sammis 1 [1][7]	531.090	4486.750	504	690	21	71.71	311.0	See [6]	See [6]
Sammis 2 [2][7]	531.108	4486.704	504	690	20	81.09	311.0	See [6]	See [6]
Sammis 3 [3][7]	531.130	4486.646	850	690	31.18 [4]	77.85	296.0	See [6]	See [6]
Sammis 4 [7]	531.153	4486.576	1000	690	26.75	68.08	298.0	See [6]	See [6]

[1] Boilers 1 and 2.
[2] Boilers 3 and 4
[3] Boilers 5 and 6. One flue for boiler 5 and two for boiler 6.
[4] Effective diameter is based on three 18-foot flues inside the chimney.
[5] Values are derived from actual stack sampling data adjusted for the maximum rated heat input to the boilers.
[6] http://www.epa.gov/airmarkt/progsregs/epa-ipm/index.html#needs
[7] Source: Air Dispersion Modeling Analysis in Support of Modifications to the FirstEnergy Sammis Plant, Enviroplan Consulting, December, 2005
Note: Nominal Design Capacity in mmBtu/hr. of Sammis Boilers: #1-4 - 1822 ea., #5 - 3000, #6&7 - 6066.

Burger 5 [1][4][5]	520.389	4417.477	850	708	21.5	227,892 acfm [2]	371.0	See [3]	See [3]
Burger 6 [1][4][5]						227,892 acfm [2]	371.0	See [3]	See [3]
Burger 7 [1][4]						672,940 acfm [2]	291.7	See [3]	See [3]
Burger 8 [1][4]						672,940 acfm [2]	291.7	See [3]	See [3]

[1] The coal-fired units at Burger have one common stack.
[2] Burger flows are given in acfm rather than fps.
[3] http://www.epa.gov/airmarkt/progsregs/epa-ipm/index.html#needs
[4] Source: Air Quality Modeling Report to Evaluate the Change in Stack Dispersion Parameters Associated with the Proposed Use of Wet-FGD at the FirstEnergy R.E. Burger Plant, GT Environmental, March 2008.; Internal FirstEnergy files.
[5] Seasonal boilers generally operated intermitantly during the summer months.
Note: Nominal Design Capacity in mmBtu/hr. of Burger Boilers: #5-6 - 647 ea., #7&8 - 1636.

Mansfield 1A [1][5]	549.449	4498.118	950	750	19.02	1186029	124.5	See [4]	See [4]
Mansfield 1B [1][5]					18.92	1229465	125.1		
Mansfield 2A [1][5]					18.98	1242420	125.0	See [4]	See [4]
Mansfield 2B [1][5]					19.04	1213133	126.0		
Mansfield 3A [2][5]	549.331	4497.955	600	750	19	1140172	122.0	See [4]	See [4]
Mansfield 3B [2][5]					19	1122793	122.4		

[1] Stack #1 with four flues.
[2] Stack #2 with two flues.
[3] Mansfield flows are given in acfm rather than fps.
[4] http://www.epa.gov/airmarkt/progsregs/epa-ipm/index.html#needs
[5] Source: Internal FirstEnergy files.

First Energy - Future Case

Corrections to Stack Parameters

	Easting (km)	Northing (km)	height (ft)	Base (ft)	Stk Dia (ft)	Exit Vel (ft/sec)[2]	Temp (F)[2]		
Sammis 1-4C[1][3]	531.123	4486.526	850	690	32	41.24	117	See [4]	See [4]
Sammis 5-7A[1][3]					32	41.85	116	See [4]	See [4]
Sammis 5-7B[1][3]					32	41.85	116	See [4]	See [4]

[1] The coal-fired units at Sammis will have one common stack with three flues.
[2] Design estimates.
[3] Source: Air Dispersion Modeling Analysis in Support of Modifications to the FirstEnergy Sammis Plant, Enviroplan Consulting, December, 2005
[4] See Tab Sammis Post CO Limits

Burger 5[1][3][4]	520.389	4417.477	850	708	21.5	227,892 acfm[2]	371	Actuals Unknown	Actuals Unknown
Burger 6[1][3][4]						227,892 acfm[2]	371	Actuals Unknown	Actuals Unknown
Burger 7[1][4][5]						Unknown	Unknown	Unknown	Unknown
Burger 8[1][4][5]						Unknown	Unknown	Unknown	Unknown

[1] The coal-fired units at Burger have one common stack.
[2] Burger flows are given in acfm rather than fps.
[3] Seasonal boilers generally operated intermitantly during the summer months.
[4] Source: Internal FirstEnergy files.
[5] The boilers are being converted to bio-fuel. Engineering estimates are not yet available.

Mansfield 1A[1][4]	549.449	4498.118	950	750	19.02	1186029 acfm[3]	124.5	Actuals Unknown	Actuals Unknown
Mansfield 1B[1][4]					18.92	1229465 acfm[3]	125.1		
Mansfield 2A[1][4]					18.98	1242420 acfm[3]	125.0	Actuals Unknown	Actuals Unknown
Mansfield 2B[1][4]					19.04	1213133 acfm[3]	126.0		
Mansfield 3A[2][4]	549.331	4497.955	600	750	19	1140172 acfm[3]	122.0	Actuals Unknown	Actuals Unknown
Mansfield 3B[2][4]					19	1122793 acfm[3]	122.4		

[1] Stack #1 with four flues.
[2] Stack #2 with two flues.
[3] Mansfield flows are given in acfm rather than fps.
[5] Source: Internal FirstEnergy files.

W.H. Sammis Plant, 2012 Emission Limits, Based on Consent Order (as of 14May2009)				
Plant	**Boiler**	**SO_2[1] #/mmBtu**	**NOx[1] #/mmBtu**	**PM #/mmBtu**
Sammis	1	1.100	0.250	0.1
Sammis	2	1.100	0.250	0.1
Sammis	3	1.100	0.250	0.1
Sammis	4	1.100	0.250	0.1
Sammis	5	1.100	0.290	0.1
Sammis	6	0.130	0.100	0.030
Sammis	7	0.130	0.100	0.030

[1] As a 30-day rolling average.

EGU Condensibles Added for 2002

- EGU condensibles were added to base case based on NEI 2002 values. Added condensibles (in tons/year) are shown below by source/stack.

Facility Name	ID	Ht (m)	COND (TPY)
AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES2	68.58	18.960
AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES1	68.58	124.191
ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST1	307.22	1745.518
ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF1	213.35	9183.984
ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL1	114.27	133.099
CARDINAL POWER PLANT (CARDINAL OPER)	CARD5	274.31	556.829
CARDINAL POWER PLANT (CARDINAL OPER)	CARD2	251.45	1257.191
CARDINAL POWER PLANT (CARDINAL OPER)	CARD1	251.45	1539.745
HOMER CITY OL/HOMER CITY GEN STA	HOMER2	260.29	402.969
HOMER CITY OL/HOMER CITY GEN STA	HOMER1	243.83	5652.828
MONONGAHELA POWER CO.- FORT MARTIN	FMART1	167.63	4865.742
OHIO POWER - KAMMER PLANT	KAMM1	274.31	2038.496
OHIO POWER - MITCHELL PLANT	OMIT1	365.74	2198.760
ORION POWER MIDWEST /NEW CASTLE	NEWCA1	228.59	1304.758
ORION POWER MIDWEST/ELRAMA	ELRAM1	119.48	337.600
PA POWER CO/BRUCE MANSFIELD PLT	BRUCM2	182.87	510.358
PA POWER CO/BRUCE MANSFIELD PLT	BRUCM1	289.55	979.456
R. E. BURGER PLANT	BURG2	259.07	2141.426
RELIANT ENERGY/KEYSTONE POWER PLT	KEYST1	243.83	8252.358
W. H. SAMMIS PLANT	SAMM0	153.61	1007.137
W. H. SAMMIS PLANT	SAMM3	153.61	1007.137
W. H. SAMMIS PLANT	SAMM5	259.07	1282.376
W. H. SAMMIS PLANT	SAMM1	304.79	2392.575

H-2: Inventory Listings

Modeling inventory listings by point source are given in the following pages and are also available in electronic form (spreadsheet) on the accompanying SIP DVD.

MANE-VU

The MANE-VU point sources from the uncorrected regional inventories were used for the subtracted portion of the Liberty-Clairton area impacts. Receptors throughout the CALPUFF "CMAQ-equivalent" grid were used for these source impacts.

ACHD

ACHD point sources are the corrected point sources, based on the revisions given in section H1 of this appendix. Receptors for the Liberty and Clairton areas only were used for these source impacts.

RFP

The RFP point sources were based on $PM_{2.5}$ sources in the Liberty-Clairton area only. The precursors NO_x and SO_2 point sources were from within the 150 km modeling domain (PA sources only) but outside the Liberty-Clairton area.

The RFP inventories also contain area, nonroad, and mobile emissions added to the point source totals for each year (2002, 2009, 2012, 2014). This corresponds to $PM_{2.5}$ from the Liberty-Clairton emissions inventory and SO_2 and NO_x from the Pittsburgh-Beaver Valley emissions inventory, excluding Liberty-Clairton. These are given below:

Area (non-point) Source Totals for RFP (tons/year)

Year	SO_2	NO_x	$PM_{2.5}$
2002	9905.00	8622.00	36.50
2009	10452.47	9100.87	37.10
2012	10466.83	9229.49	35.46
2014	10466.83	9229.49	35.46

Nonroad Source Totals for RFP (tons/year)

Year	SO_2	NO_x	$PM_{2.5}$
2002	1694.5	25975.2	23.01
2009	1385.5	21246.5	21.66
2012	216.2	17429.0	21.50
2014	216.2	17429.0	21.50

Mobile Source Totals for RFP (tons/year)

Year	SO_2	NO_x	$PM_{2.5}$
2002	1769.95	53268.02	4.92
2009	229.50	28739.31	2.75
2012	229.50	28739.31	2.75
2014	229.50	28739.31	2.75

The $PM_{2.5}$ point RFP inventory is identical to that given in the ACHD modeling inventory for Liberty-Clairton sources (below) and is not repeated with the RFP inventories:

- US Steel Clairton
- Koppers
- Mid-Continent Coal/Coke
- Durabond
- Penn Elec Coil
- AKJ Industries
- ELG Metals
- Mon Valley Transportation Center (now closed)

For RFP year 2009, 71% of the total reductions from the shutdown of Batteries 7-9 were used in calculating the $PM_{2.5}$ RFP total. Mon Valley Transportation Center emissions were also removed for 2009. RFP year 2012 includes complete shutdown of Batteries 7-9. RFP year 2014 includes battery rebuilds for Batteries 19 and B, new C Battery and associated processes, Quench 1 baffle maintenance, and new Quench Towers 5A and 7A (replacing Quench Towers 5 and 7).

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM1	WASTE OIL BURNERS- 4 SAME	2	2	578.598	4482.181	7.31	218	0.20	0.03	294.11	0.572	0.1306
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM2	BOILERS,WASHER,AIR HTR, ETC	5	9999	578.598	4482.181	15.24	218	0.82	7.86	295.22	0.030	0.0069
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM3	BOILERS,WASHER,AIR HTR, ETC	6	9999	578.598	4482.181	10.67	218	0.40	11.13	295.22	0.012	0.0027
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA1	INTEGRATED TABULAR	1	1	566.329	4491.287	12.19	214	1.52	7.31	294.11	0.642	0.1466
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA2	INTEGRATED TABULAR	3	2	566.329	4491.287	23.47	214	1.14	20.73	294.11	0.760	0.1735
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA3	BALL MILL, PACKAGING, OTHER	3	3	566.329	4491.287	23.47	214	0.71	20.12	294.11	0.220	0.0502
PA	Allegheny	ALLDERDICE SCHOOL	ALLDR1	BOILERS	3	1	591.596	4470.783	25.91	325	1.83	0.03	533.00	0.072	0.0164
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT1	ROTARY DRUM MIX/DRYER NG	1	1	586.772	4476.132	7.92	230	1.20	15.51	450.22	2.106	0.4808
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT2	LIMESTONE COARSE	3	9999	586.896	4476.377	12.50	230	0.58	14.84	295.22	0.650	0.1483
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT3	COLD AGGREGATE HANDLING	7	9999	586.896	4476.377	10.36	230	1.25	14.69	295.22	4.060	0.9269
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT4	HIGHLIFT	9	9999	586.896	4476.377	3.96	230	0.03	5.58	295.22	0.227	0.0517
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT5	CARBONATE AGGREGATES	10	9999	586.896	4476.377	9.75	230	1.19	14.20	295.22	6.780	1.5479
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT6	ASPHALT HEATER	12	9999	586.896	4476.377	42.37	230	0.40	2.83	295.22	0.002	0.0004
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT7	ROADWAY FUGITIVE DUST	13	9999	586.896	4476.377	11.58	230	0.61	13.17	295.22	0.118	0.0270
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP1	125 HOOKSTOWN GRADE ROAD	B02	5	567.823	4481.509	5.49	341	0.15	0.30	338.56	0.002	0.0003
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP2	TWA HANGARS	B03	6	565.249	4483.173	7.62	341	0.61	0.30	338.56	0.097	0.0221
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP3	CARGO RD. FIRE PUMPHOUSE	B04	7	564.720	4483.580	4.57	341	0.30	0.30	338.56	0.007	0.0016
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP4	MAINTENANCE BUILDING	B05	8	565.652	4483.599	6.10	341	0.64	0.30	338.56	0.018	0.0042
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP5	TWA CARGO BUILDING	B06	9	565.106	4482.972	6.10	341	0.15	0.30	338.56	0.010	0.0023
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP6	UREA/SAND DOME	B07	10	564.900	4483.326	11.28	341	0.46	0.30	338.56	0.053	0.0121
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP7	STORE/WEST DOCK	B08	11	565.898	4483.579	7.92	341	0.15	0.30	338.56	0.016	0.0037
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP8	COMMISSARY	B09	12	565.720	4483.577	6.71	341	0.85	0.30	338.56	0.005	0.0011
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP9	WASTE DISPOSAL BUILDING	B10	13	565.255	4483.407	4.88	341	0.09	0.79	338.56	0.004	0.0009
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP10	HIGH TEMP WATER GEN. 1 NG	B11	1	563.088	4483.177	10.67	341	1.07	9.48	538.56	0.466	0.1065
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP11	FUGITIVES	G06	9999	563.069	4483.366	11.89	341	0.43	8.29	295.22	0.007	0.0015
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS1	LIME MIXING	9	6	581.090	4480.675	23.77	222	1.83	14.72	294.11	0.690	0.1575
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS2	FLUIDIZED BED INCIN. #1	12	10	581.027	4480.985	91.44	222	2.41	1.49	316.33	1.227	0.2801
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS3	KEWANEE BOILER	19	19	581.095	4480.975	24.38	222	0.91	3.20	699.67	0.075	0.0170
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS4	PLANT ROADS AND VEHICLES	24	9999	581.095	4480.975	6.10	222	0.70	1.68	295.22	0.017	0.0040
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS5	POT. PERMANGANATE SILO-2	25	9999	581.095	4480.975	11.28	222	0.52	13.14	295.22	0.012	0.0028
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS6	ASH SILOS	30	9999	581.095	4480.975	24.08	222	0.79	12.65	295.22	0.009	0.0021
PA	Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	AESPRG	UNITS 1-2	1	1	604.393	4488.880	22.86	227	2.74	20.24	708.56	2.174	0.4964
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD1	EIF SCRAP PREHEATERS	1	2	608.490	4497.177	28.04	236	1.07	11.89	366.33	6.458	1.4744
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD2	ELECTRIC INDUCTION FCES	5	4	608.388	4497.175	20.12	236	0.79	17.37	324.67	4.906	1.1202
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD3	ELECTRIC INDUCTION FCES	5	9999	607.495	4496.974	11.89	236	1.13	13.26	295.22	20.180	4.6072
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD4	HOT METAL DESULFURIZATION	6	5	608.388	4497.175	24.99	236	0.61	27.43	380.22	2.960	0.6759
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD5	HOT METAL DESULFURIZATION	6	9999	607.495	4496.974	25.30	236	1.58	17.65	295.22	0.954	0.2179
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD6	BASIC OXYGEN FCES	7	1	608.490	4497.177	45.41	236	3.05	11.32	333.00	7.897	1.8030
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD7	BASIC OXYGEN FCES	7	9999	607.495	4496.974	97.53	236	2.38	11.16	295.22	7.100	1.6210
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD8	BASIC OXYGEN FCES	7	9999	607.495	4496.974	49.68	236	2.71	8.81	295.22	0.086	0.0197
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD9	BASIC OXYGEN FCES	7	9999	607.495	4496.974	43.89	236	2.35	11.40	295.22	0.230	0.0525
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD10	EAF MELTING	12	51	607.694	4496.077	25.60	236	5.18	1.90	366.33	11.800	2.6941
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD11	EAF CANOPY BAGHOUSE	14	50	608.449	4497.076	18.90	236	3.10	3.20	366.33	5.831	1.3313
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD12	EAF CANOPY BAGHOUSE	14	9999	607.495	4496.974	24.99	236	2.44	11.73	295.22	16.798	3.8352
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD13	EAF MELTING	15	53	607.694	4496.077	22.86	236	4.27	2.77	366.33	2.882	0.6579
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD14	EAF MELTING	16	54	607.694	4496.077	22.86	236	4.27	1.83	366.33	2.882	0.6579
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD15	AOD	18	49	608.448	4497.176	22.86	236	3.10	3.41	366.33	37.505	8.5627
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD16	AOD	18	9999	607.495	4496.974	29.26	236	2.01	11.03	295.22	4.268	0.9745
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD17	EAF SCRAP PREHEATERS	22	9999	607.495	4496.974	19.81	236	1.13	8.20	295.22	1.448	0.3305
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD18	CONTINUOUS CASTER	26	9999	607.495	4496.974	30.78	236	2.96	10.61	295.22	1.232	0.2813

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD19	LOFTUS SOAK PITS	28	16	607.292	4495.783	38.10	236	1.22	7.71	810.78	0.445	0.1015
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD20	LOFTUS SOAK PITS	28	17	607.192	4495.681	38.10	236	1.83	3.41	810.78	1.026	0.2342
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD21	LOFTUS SOAK PITS	28	19	607.192	4495.681	38.10	236	1.83	2.56	810.78	0.331	0.0755
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD22	A/M SOAK PITS	29	20	607.393	4495.784	38.10	236	1.22	4.75	810.78	0.137	0.0312
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD23	A/M SOAK PITS	29	21	607.393	4495.784	38.10	236	1.83	2.10	810.78	0.137	0.0312
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD24	SALEM REHEAT FURNACE	30	23	607.393	4495.784	38.10	236	2.44	11.97	810.78	16.505	3.7682
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD25	RUST REHEAT FURNACE	31	24	607.292	4495.783	38.10	236	1.52	19.98	810.78	3.003	0.6856
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD26	HOT STRIP UNIVERSAL MILL	33	25	607.290	4495.883	21.33	236	2.44	3.03	338.56	4.732	1.0803
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD27	HOT STRIP MILL FUGITIVES	34	9999	607.495	4496.974	26.21	236	1.77	8.02	295.22	0.473	0.1080
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD28	#1 A&P LINE, SHOTBLAST	35	48	607.594	4495.976	3.05	236	0.91	12.94	294.11	4.749	1.0842
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD29	#2 A&P LINE, KOLENE DESC.	38	42	606.595	4495.984	16.76	236	1.31	3.90	313.56	0.897	0.2047
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD30	#2 A&P ANNEALING FCE. NG	39	9999	607.495	4496.974	33.83	236	1.34	10.52	295.22	0.383	0.0874
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD31	#3 B&P LINE, SHOTBLAST	42	46	607.594	4495.976	2.13	236	0.49	27.81	294.11	16.948	3.8695
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD32	1-3 PICKLE,ACID SCRUBBING	45	9999	607.495	4496.974	22.25	236	1.22	10.39	295.22	2.486	0.5675
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD33	HOT BAND NORMALIZER	46	59	607.289	4495.983	2.44	236	1.83	17.26	1394.11	0.517	0.1180
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD34	PLATE BURNERS/TORCH CUTRS	48	45	607.296	4496.083	12.19	236	1.22	25.39	294.11	1.281	0.2924
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD35	SLAB GRINDERS#15,16,18-22	50	9999	607.495	4496.974	19.81	236	1.65	8.75	295.22	9.841	2.2467
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD36	#3 DEPT. BOILER	54	39	606.690	4495.874	6.10	236	2.13	1.48	449.67	0.752	0.1718
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD37	MISC. SPACE HEATERS	55	9999	607.495	4496.974	15.24	236	0.82	7.86	295.22	1.440	0.3288
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD38	SLAG HANDLING	59	9999	607.495	4496.974	36.27	236	2.38	6.00	295.22	0.166	0.0378
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD39	MOLD SHOP COOLING TOWERS	64	9999	607.495	4496.974	9.14	236	4.33	9.05	295.22	5.991	1.3678
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD40	TANDEM MILL	67	37	607.595	4495.876	12.19	236	1.22	6.07	294.11	30.154	6.8844
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD41	UNITED MILL	68	64	607.595	4495.876	12.19	236	1.22	6.07	294.11	11.415	2.6062
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD42	Z MILL	69	40	606.595	4495.984	10.67	236	0.91	7.19	294.11	4.570	1.0435
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD43	STORAGE SILOS	71	9999	607.495	4496.974	20.73	236	0.79	13.29	295.22	0.989	0.2258
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL1	BOILER #1	7	2	606.746	4497.218	9.14	293	0.70	4.60	483.00	0.141	0.0323
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL2	PAVED ROADS	11	9999	606.842	4497.064	11.58	293	0.70	14.36	295.22	0.012	0.0027
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR1	HVAC UNITS	C01	5	570.101	4486.315	15.24	225	0.82	7.86	462.44	0.028	0.0063
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR2	VEHICLE TRAFFIC	F01	9999	570.101	4486.315	12.19	225	1.62	6.49	295.22	0.052	0.0119
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR3	VEHICLE TRAFFIC	F01	9999	570.101	4486.315	8.84	225	0.40	23.84	295.22	0.347	0.0793
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR4	VEHICLE TRAFFIC	P04	2	570.101	4486.315	7.62	225	0.30	0.03	310.78	0.015	0.0035
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR5	ABRASIVE BLASTING #2	P06	4	570.101	4486.315	0.00	225	0.09	0.00	303.00	0.045	0.0102
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR6	WELDING AND CUTTING	P6S	9999	570.101	4486.315	0.00	225	0.09	0.00	295.22	0.001	0.0001
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR7	WELDING AND CUTTING	PB6	9999	570.101	4486.315	3.05	225	0.20	4.00	295.22	0.027	0.0061
PA	Allegheny	AMG RESOURCES CORPORATION	AMG1	UNPAVED ROADS	5	9999	574.792	4484.784	20.42	221	0.64	6.68	295.22	0.004	0.0009
PA	Allegheny	AMG RESOURCES CORPORATION	AMG2	UNPAVED ROADS	5	9999	574.792	4484.784	3.96	221	0.03	5.58	295.22	0.066	0.0150
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW1	AGGREGATE GROUND HOPPER	1	9999	585.195	4476.080	9.45	224	0.85	7.04	295.22	0.223	0.0509
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW2	AGGREGATE #57 GRAVEL	2	9999	585.195	4476.080	9.14	224	0.91	7.77	295.22	0.863	0.1969
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW3	CEMENT SILO 1	8	1	585.195	4476.080	24.38	224	0.15	16.82	321.89	0.062	0.0142
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW4	CEMENT SILO 2	11	4	585.195	4476.080	17.37	224	0.41	0.03	533.00	0.201	0.0460
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW5	CEMENT SILO 3	12	5	585.195	4476.080	7.31	224	0.30	15.24	294.11	0.030	0.0069
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW6	BOILER	13	9999	585.195	4476.080	3.96	224	0.03	5.58	295.22	0.125	0.0284
PA	Allegheny	ARSENAL SCHOOL	ARSENL	BOILER	3	1	587.893	4480.375	36.57	234	1.83	0.03	533.00	0.041	0.0094
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN1	POLYESTER RESIN(PR) PLANT	2	7	577.693	4483.681	33.53	222	1.07	1.92	1060.78	0.208	0.0475
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN2	MAIN BOILER #25	3	8	577.995	4483.184	11.89	222	0.60	8.81	541.33	1.812	0.4137
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN3	BACKUP BOILER #26	5	10	577.693	4483.681	8.53	222	0.61	5.43	533.00	0.133	0.0303
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN4	HOT OIL HEATER #15	8	9999	577.693	4483.681	13.72	222	3.93	10.39	295.22	1.144	0.2613
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN5	COOLING TOWER #39	9	9999	577.693	4483.681	14.02	222	0.40	16.82	295.22	0.049	0.0113
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN6	ONSITE VEHICLES	9	9999	577.693	4483.681	8.84	222	0.46	19.23	295.22	0.055	0.0125
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN7	ONSITE VEHICLES	9	9999	577.693	4483.681	6.10	222	0.27	8.23	295.22	0.003	0.0006

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN8	ONSITE VEHICLES	9	9999	577.693	4483.681	0.00	222	0.00	0.00	295.22	0.004	0.0008
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN9	ROAD DUST	10	9999	577.693	4483.681	11.89	222	0.88	4.72	295.22	0.100	0.0229
PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL1	BOILERS #1-2	B2G	20	591.945	4479.024	42.97	284	2.10	0.21	505.22	0.218	0.0497
PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL2	BAKING OVENS #2-6	P2G	1	591.980	4478.936	18.90	284	0.80	0.91	533.00	0.096	0.0220
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER1	BOILER #1,NG	B01	8	589.994	4500.883	15.24	232	0.82	9.54	533.00	0.016	0.0036
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER2	SPACE HEATERS,NG	B02	9999	589.994	4500.883	10.67	232	0.43	6.55	295.22	0.008	0.0018
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER3	ROADS AND VEHICLES	F01	9999	589.994	4500.883	38.71	232	1.43	7.19	295.22	0.040	0.0092
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER4	ROADS AND VEHICLES	F01	9999	589.994	4500.883	8.84	232	0.46	19.23	295.22	0.034	0.0077
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER5	OPEN HEAD -BAKE OVEN	P03	5	589.994	4500.883	13.72	232	0.67	10.09	294.11	0.009	0.0021
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER6	SHOT BLAST,OPEN HEAD	P04	6	589.994	4500.883	6.71	232	0.43	9.91	294.11	0.129	0.0295
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER7	DRUM BURNER,OPEN HEAD	P06	9	589.994	4500.883	10.36	232	3.54	2.99	416.33	2.164	0.4941
PA	Allegheny	BARBER SPRING	BARBR1	OUTER LINE	1	1	588.518	4481.958	16.76	230	1.22	0.03	294.11	0.469	0.1070
PA	Allegheny	BARBER SPRING	BARBR2	QUENCHING	4	9999	588.518	4481.958	13.41	230	1.07	12.22	295.22	0.200	0.0457
PA	Allegheny	BARBER SPRING	BARBR3	VEHICLES	31	9999	588.518	4481.958	10.67	230	0.40	11.13	295.22	0.035	0.0079
PA	Allegheny	BARBER SPRING	BARBR4	VEHICLES	32	9999	588.518	4481.958	8.84	230	0.46	19.23	295.22	0.049	0.0111
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE1	BOILERS 1-2	1	1	589.114	4478.935	59.13	248	2.70	7.71	565.22	2.034	0.4644
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE2	BOILERS 3-7	8	2	589.125	4477.325	78.02	248	3.40	5.91	426.89	16.826	3.8415
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE3	COAL HNDLG INDOOR BUNKERS	19	9999	589.116	4477.314	16.46	248	0.46	9.54	295.22	0.124	0.0284
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE4	ASH SILO, 150 TON CAPAC.	20	9999	589.116	4477.314	9.14	248	0.58	12.71	295.22	0.009	0.0021
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE5	EMERG #2 FUEL OIL GEN B	21	9999	589.116	4477.314	9.75	248	0.49	10.70	295.22	0.009	0.0021
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF1	RECEIVING	1	9999	569.684	4471.868	17.98	277	0.70	13.41	295.22	0.003	0.0008
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF2	PROCESSING	2	1	569.693	4471.879	6.10	277	2.13	0.09	296.89	0.022	0.0049
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF3	PROCESSING	2	2	569.693	4471.879	31.09	277	0.91	0.14	310.78	0.618	0.1411
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF4	PROCESSING	2	3	569.693	4471.879	32.61	277	0.30	5.29	296.89	0.035	0.0079
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF5	PROCESS STEAM	3	4	569.693	4471.879	12.19	277	0.08	5.18	633.00	0.055	0.0125
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF6	PROCESS STEAM	3	5	569.693	4471.879	7.62	277	0.41	11.00	633.00	0.055	0.0125
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS1	BOILER #1	B1G	1	593.493	4468.475	8.84	366	0.51	10.24	401.89	0.032	0.0074
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS2	BOILER #2	B2G	2	593.520	4468.331	9.14	366	0.70	6.49	433.00	0.035	0.0080
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS3	BOILER #3-4	B3G	3	593.493	4468.475	8.84	366	0.61	6.55	443.00	0.075	0.0171
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSD	DIESEL GENERATOR TESTING	DG1	6	593.493	4468.475	3.66	345	0.35	35.05	710.78	0.008	0.0018
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSR	ROADS & VEHICLES	SCG	9999	593.493	4468.475	15.85	345	0.67	7.10	295.22	0.205	0.0467
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSV	VAPOR HOT WATER HEATER-NG	VHG	5	593.520	4468.331	21.03	345	1.40	19.90	644.11	0.038	0.0087
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI1	ENCLOSED GROUND FLARE	1	1	561.496	4477.780	18.29	335	3.66	0.67	1144.11	8.215	1.8755
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI2	PORTABLE SCREENING PLANT	2	9999	561.497	4477.680	11.89	335	0.70	15.12	295.22	0.094	0.0215
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI3	OPERATION / CONSTRUCTION	5	9999	561.497	4477.680	4.27	335	0.06	11.64	295.22	7.290	1.6644
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI4	UNPAVED ROAD DUST EMISSIN	7	9999	561.497	4477.680	65.53	335	0.94	2.80	295.22	1.141	0.2605
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI5	DEDICATED DIESEL EMISSION	8	9999	561.497	4477.680	8.84	335	0.40	23.84	295.22	3.738	0.8534
PA	Allegheny	BOX USA	BOX1	SCRAP, CORRUGATOR	3	1	592.290	4483.381	15.24	228	4.57	0.03	294.11	5.197	1.1866
PA	Allegheny	BOX USA	BOX2	BOILERS	4	2	592.290	4483.381	45.11	228	2.44	0.49	435.78	0.125	0.0285
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP1	GARAGE BOILER-NATURAL GAS	11	9999	569.591	4486.476	10.67	226	0.43	6.55	295.22	0.005	0.0012
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP2	PLANT ROADS	12	9999	569.591	4486.476	36.88	226	1.19	5.58	295.22	0.002	0.0004
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP3	PLANT ROADS	12	9999	569.591	4486.476	12.19	226	1.62	6.49	295.22	0.001	0.0002
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR1	BRIQUETTING SYSTEM BOP	1	9999	597.433	4471.800	14.63	230	0.76	15.00	295.22	0.317	0.0724
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR2	BRIQUETTING BLAST FURNACE	2	1	597.433	4471.800	11.89	230	0.90	16.79	366.89	0.236	0.0539
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR3	BRIQUETTING BLAST FURNACE	2	9999	597.433	4471.800	24.08	230	2.04	21.61	295.22	0.015	0.0033
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR4	BRIQUETTING BLAST FURNACE	2	9999	597.433	4471.800	18.59	230	0.67	15.67	295.22	0.873	0.1994
PA	Allegheny	CALGON CARBON CORPORATION	CALG1	CARBON REACTIVATION	1	1	578.124	4482.975	24.08	220	1.10	18.29	491.33	0.230	0.0525
PA	Allegheny	CALGON CARBON CORPORATION	CALG2	CARBON REACTIVATION	1	5	577.997	4482.985	18.90	220	0.76	1.62	421.89	0.080	0.0183
PA	Allegheny	CALGON CARBON CORPORATION	CALG3	WHETLERITE - PLANT #1	2	3	577.997	4482.985	12.19	220	0.61	4.82	327.44	0.870	0.1986
PA	Allegheny	CALGON CARBON CORPORATION	CALG4	WHETLERITE - PLANT #1	2	4	577.997	4482.985	15.24	220	0.61	2.13	394.11	0.043	0.0098

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	CALGON CARBON CORPORATION	CALG5	IMPREGNATED PRODUCTS	4	7	577.997	4482.985	12.19	220	0.41	3.66	394.11	0.031	0.0071
PA	Allegheny	CALGON CARBON CORPORATION	CALG6	IMPREGNATED PRODUCTS	4	10	578.115	4482.986	34.14	220	0.60	22.31	426.33	0.060	0.0137
PA	Allegheny	CALGON CARBON CORPORATION	CALG7	PELLETS	5	13	578.141	4482.975	18.90	220	0.80	11.31	1326.89	0.990	0.2260
PA	Allegheny	CALGON CARBON CORPORATION	CALG8	RAYMOND MILL PULVERIZER	7	18	577.997	4482.985	13.41	220	0.30	19.51	294.11	0.190	0.0434
PA	Allegheny	CALGON CARBON CORPORATION	CALG9	COOPERITE	8	19	577.997	4482.985	21.94	220	0.76	13.72	345.78	0.080	0.0183
PA	Allegheny	CALGON CARBON CORPORATION	CALG10	SCREENING	9	20	577.997	4482.985	14.02	220	0.76	20.73	293.00	0.620	0.1416
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL1	STOCKPILES ROCK SALT	1	9999	579.492	4481.879	8.84	221	1.04	16.31	295.22	1.118	0.2553
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL2	ROCK SALT PROCESSING LINE	2	2	579.492	4481.879	12.19	221	0.30	9.05	293.00	0.022	0.0051
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL3	ROCK SALT PROCESSING LINE	2	9999	579.492	4481.879	3.96	221	0.03	5.58	295.22	0.062	0.0142
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL4	OFF-LOADING ROCK SALT	3	9999	579.492	4481.879	12.50	220	0.58	14.84	295.22	0.119	0.0272
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL5	OFF-LOADING ROCK SALT	3	9999	579.492	4481.879	8.53	221	1.01	15.97	295.22	0.008	0.0018
PA	Allegheny	CARRICK SCHOOL	CARRK	GAS FIRED HW BOILERS	3	1	585.795	4471.780	14.02	371	1.37	0.03	533.00	0.047	0.0108
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC1	KEELER BOILERS	1	1	586.985	4462.091	46.02	333	2.10	5.09	449.67	0.170	0.0388
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC2	ROAD SALT STOCKPILES	7	9999	586.891	4462.179	18.59	333	1.43	10.15	295.22	0.080	0.0183
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC3	PARTS WASHER & OTHER FUG.	8	9999	586.891	4462.179	8.84	333	0.40	23.84	295.22	0.136	0.0309
PA	Allegheny	CENTRAL FOOD KITCHEN	CENTF	GAS FIRED BOILERS	3	1	586.092	4476.279	14.63	222	0.84	0.03	533.00	0.098	0.0223
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB1	MCGILL ENCLOSED LFG FLARE	1	1	602.297	4473.674	9.14	305	3.38	7.38	1171.89	1.530	0.3493
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB2	COVER-EXCAV.&REPLACEMENT	6	9999	602.297	4473.674	21.94	305	1.62	15.39	295.22	3.630	0.8288
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB3	COVER-EXCAV.&REPLACEMENT	6	9999	602.297	4473.674	19.20	305	1.62	15.39	295.22	0.530	0.1210
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB4	ROADS	7	9999	602.297	4473.674	1.83	305	0.09	0.67	295.22	10.040	2.2922
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB5	VEHICLES	8	9999	602.297	4473.674	8.84	305	0.40	23.84	295.22	2.730	0.6233
PA	Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	CHILDR	BOILERS	4	1	587.596	4478.184	19.81	295	1.22	6.80	429.67	0.430	0.0983
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG1	ASPHALT PLANT	1	1	593.696	4458.275	4.88	230	1.50	5.61	394.11	0.001	0.0002
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG2	ASPHALT PLANT	1	9999	593.696	4458.275	10.36	230	1.25	14.69	295.22	1.057	0.2413
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG3	ASPHALT PLANT	1	9999	593.696	4458.275	10.06	230	0.98	13.96	295.22	0.012	0.0027
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG4	BARGE UNLOADING OPERATION	2	9999	593.696	4458.275	12.50	230	0.58	14.84	295.22	1.246	0.2844
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG5	BARGE UNLOADING OPERATION	2	9999	593.696	4458.275	11.58	230	0.61	13.17	295.22	1.026	0.2343
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG6	STG.PILE#4 HWY SALT #1	7	9999	593.696	4458.275	12.50	230	0.61	16.06	295.22	0.110	0.0252
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG7	PAVED ROADS	15	9999	593.696	4458.275	36.88	230	1.19	5.58	295.22	0.003	0.0006
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG8	DEDICATED VEHICLE EMISSIN	16	9999	593.696	4458.275	8.84	230	0.40	23.84	295.22	1.139	0.2600
PA	Allegheny	CONNELLEY SCHOOL	CONNLY	GAS FIRED BOILERS # 1-3	3	1	584.095	4478.777	28.35	286	2.80	0.03	533.00	0.095	0.0216
PA	Allegheny	CP INDUSTRIES	CP1	#3 AUTOMATIC GRINDER	P01	1	597.394	4465.582	7.62	226	0.58	4.48	283.00	0.505	0.1153
PA	Allegheny	CP INDUSTRIES	CP2	O.D. SHOT BLAST	P02	2	597.394	4465.582	7.62	226	0.58	4.48	294.11	0.519	0.1185
PA	Allegheny	CP INDUSTRIES	CP3	"A" FURNACE	P04	4	597.394	4465.582	19.81	226	1.13	3.14	810.78	0.032	0.0072
PA	Allegheny	CP INDUSTRIES	CP4	"B" FURNACE	P05	5	597.394	4465.582	19.81	226	1.13	4.45	1144.11	0.048	0.0108
PA	Allegheny	CP INDUSTRIES	CP5	HOLCROFT FURNACE	P06	6	597.394	4465.582	15.24	226	0.82	4.42	1144.11	0.033	0.0076
PA	Allegheny	CREIGHTON STATION	CREIGH	ENGINE #1-2	1	1	603.436	4493.164	6.10	226	0.46	0.03	588.56	0.226	0.0516
PA	Allegheny	DICE COMPRESSOR STATION	DICE1	NG COMPRESSOR #1-400 HP	0	1	609.895	4479.877	4.57	295	0.30	19.41	488.56	0.117	0.0268
PA	Allegheny	DICE COMPRESSOR STATION	DICE2	NG COMPRESSOR #2 - 600 HP	0	2	609.895	4479.877	4.57	295	0.30	29.11	488.56	0.432	0.0985
PA	Allegheny	DICE COMPRESSOR STATION	DICE3	NG HEATING BOILER	0B1	5	609.895	4479.877	5.49	295	0.30	0.03	533.00	0.008	0.0018
PA	Allegheny	DICE COMPRESSOR STATION	DICE4	INDIRECT PIPELINE HEATER	0C1	6	609.895	4479.877	5.49	295	0.51	0.03	533.00	0.002	0.0005
PA	Allegheny	DLM FOODS	DLM1	BOILER #1-2, COAL	1	1	585.681	4478.795	75.89	229	3.10	6.40	471.89	14.440	3.2968
PA	Allegheny	DLM FOODS	DLM2	BOILER #3, COAL	5	2	585.698	4478.817	75.89	229	3.10	3.41	394.11	3.686	0.8415
PA	Allegheny	DLM FOODS	DLM3	BULK STARCH SILO	18	9999	585.997	4478.576	22.25	229	2.26	10.39	295.22	3.810	0.8699
PA	Allegheny	DLM FOODS	DLM4	COAL UNLOADING	20	9999	585.997	4478.576	20.42	229	1.52	14.17	295.22	0.048	0.0109
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ1	EMERG. GENERATORS NAT.GAS	8	9999	585.391	4476.682	8.84	253	0.46	19.23	295.22	0.182	0.0415
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ2	EMERG. GENERATORS NAT.GAS	8	9999	585.391	4476.682	7.92	253	0.34	23.35	295.22	0.011	0.0024
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ3	JOHNSTON BOILER	B01	1	585.391	4476.682	24.99	253	1.83	0.96	455.22	0.171	0.0390
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ4	MISC. BOILERS	B04	9999	585.391	4476.682	19.81	253	1.13	8.20	295.22	0.030	0.0069
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ5	GAS TURBINE GENERATOR	T05	5	585.400	4476.649	46.33	253	1.07	2.82	449.67	1.402	0.3201

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA1	P03 EXTRUD'D POLY (XTEC)	2	8	597.994	4464.580	6.40	227	0.38	21.49	293.00	0.264	0.0603
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA2	P03 EXTRUD'D POLY (XTEC)	2	9	598.002	4464.558	2.13	227	0.15	0.05	449.67	0.002	0.0004
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA3	TRAVEL EMISSIONS	3	9999	597.994	4464.580	10.97	227	0.76	5.85	295.22	5.059	1.1550
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA4	TRAVEL EMISSIONS	3	9999	597.994	4464.580	3.96	227	0.03	5.58	295.22	0.430	0.0983
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA5	FUSION BOND PROCESS OVEN	4	5	597.994	4464.580	9.75	227	0.52	2.68	921.89	0.035	0.0081
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA6	FUSION BOND WB-1 BH STACK	7	9999	597.994	4464.580	7.31	227	0.58	12.59	295.22	0.289	0.0660
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA7	FUSION BOND WB-2 BH STACK	8	3	598.002	4464.591	4.88	227	0.38	21.49	294.11	0.318	0.0727
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA8	FUSION BOND DRYER OVEN	9	1	597.994	4464.580	9.75	227	0.52	4.27	921.89	0.023	0.0053
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST1	V-8 AREA	1	84	593.093	4457.579	4.88	225	0.41	28.80	293.00	2.663	0.6081
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST2	V-8 AREA	1	86	593.093	4457.579	4.88	225	0.41	28.80	633.56	2.663	0.6081
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST3	V-8 AREA	1	88	593.093	4457.579	10.06	225	0.69	2.13	616.33	0.029	0.0065
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST4	WATER-WHITE POLY AREA	3	16	593.093	4457.579	0.61	225	0.10	0.27	298.00	0.060	0.0136
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST5	WATER-WHITE POLY AREA	3	18	593.093	4457.579	8.53	225	0.08	6.22	283.00	0.012	0.0026
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST6	WATER-WHITE POLY AREA	3	19	593.093	4457.579	0.61	225	0.05	5.06	310.78	0.158	0.0362
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST7	WATER-WHITE POLY AREA	3	22	593.093	4457.579	6.71	225	0.05	1.77	298.00	0.276	0.0629
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST8	WATER-WHITE POLY AREA	3	294	593.093	4457.579	8.53	225	0.15	1.55	298.00	0.060	0.0136
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST9	BOILERS 1-2	6	141	593.093	4457.579	14.32	225	0.69	8.84	616.33	0.022	0.0050
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST10	BOILERS 3-4	9	143	593.093	4457.579	14.02	225	0.69	23.50	625.78	0.991	0.2263
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST11	NO. 5 TRANE BOILER, WDLF	11	144	593.101	4457.590	21.94	225	0.90	9.51	503.00	1.345	0.3072
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST12	MP-POLY	13	28	593.093	4457.579	9.14	225	0.15	1.55	298.00	0.040	0.0091
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST13	MP-POLY	13	30	593.093	4457.579	9.14	225	0.15	8.41	298.00	0.001	0.0003
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST14	MP-POLY	13	31	593.093	4457.579	12.19	225	0.15	1.31	298.00	1.040	0.2374
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST15	MP-POLY	13	33	593.093	4457.579	28.04	225	0.04	8.26	316.33	0.173	0.0395
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST16	C-5 HOT OIL HEATER, NG	15	56	593.093	4457.579	6.10	225	0.33	7.45	616.33	0.223	0.0509
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST17	C-5 PROCESS UNIT	17	42	593.093	4457.579	12.19	225	0.10	18.35	293.00	0.006	0.0014
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST18	C-5 PROCESS UNIT	17	43	593.093	4457.579	12.19	225	0.05	82.54	293.00	0.351	0.0802
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST19	C-5 PROCESS UNIT	17	49	593.093	4457.579	1.52	225	0.08	0.52	293.00	0.237	0.0541
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST20	C-5 PROCESS UNIT	17	89	593.093	4457.579	9.14	225	0.08	0.30	316.33	0.026	0.0058
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST21	C-5 FINISHED RESIN AREA	18	47	593.093	4457.579	9.14	225	0.08	0.94	285.78	0.014	0.0032
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST22	C-5 FINISHED RESIN AREA	18	163	593.093	4457.579	9.14	225	0.51	18.65	293.00	1.655	0.3777
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST23	#1 & #2 LTC UNIT	19	106	593.093	4457.579	6.10	225	0.30	16.76	810.78	0.137	0.0313
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST24	#1 & #2 LTC UNIT	19	107	593.093	4457.579	6.10	225	0.30	23.77	616.33	0.066	0.0151
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST25	#1 & #2 LTC UNIT	19	115	593.093	4457.579	9.75	225	0.49	8.63	293.00	2.106	0.4807
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST26	#3 LTC UNIT	20	98	593.093	4457.579	6.10	225	0.30	29.56	810.78	0.012	0.0027
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST27	PAVED AND UNPAVED ROADS	23	9999	593.093	4457.579	14.02	225	0.40	16.82	295.22	0.064	0.0146
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST28	PAVED AND UNPAVED ROADS	23	9999	593.093	4457.579	12.19	225	0.15	3.47	295.22	0.323	0.0738
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST29	VEHICLE EXHAUST	24	9999	593.093	4457.579	8.84	225	0.49	8.29	295.22	0.001	0.0002
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST30	THERMAL POLY HEATER NG	26	292	593.093	4457.579	7.62	225	0.46	33.22	616.33	0.120	0.0274
PA	Allegheny	EPIC METALS CORPORATION	EPIC	PAINTING OPERATION	1	4	595.392	4473.383	7.62	235	0.53	19.29	596.89	0.041	0.0092
PA	Allegheny	EXXONMOBIL NEVILLE ISLAND MARKETING TER	EXXNEV	VEHICLE EMISSIONS	M 016	9999	573.894	4483.876	3.96	222	0.03	5.58	295.22	0.030	0.0069
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH1	BOILERS	1	1	595.692	4485.777	6.10	298	2.13	0.03	533.00	0.099	0.0226
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH2	ROADS	2	9999	595.692	4485.777	36.88	298	1.19	5.58	295.22	0.002	0.0004
PA	Allegheny	GALVTECH	GALVT1	NATURAL GAS COMBUSTION	1	1	590.590	4471.881	22.86	228	1.52	4.48	533.00	2.528	0.5771
PA	Allegheny	GALVTECH	GALVT2	NATURAL GAS COMBUSTION	1	3	590.591	4471.781	18.29	228	0.08	30.02	366.33	0.076	0.0174
PA	Allegheny	GALVTECH	GALVT3	MISCELLANEOUS	4	2	590.590	4471.881	12.50	228	0.58	7.38	373.56	0.060	0.0137
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT1	BULK MATERIAL UNLOADING	1	501	576.192	4468.779	20.73	244	1.10	15.88	432.44	1.480	0.3379
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT2	SIMPLEX GLASS PRODUCTION	3	9999	576.693	4468.784	27.13	244	1.07	12.53	295.22	1.050	0.2397
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT3	GAS ELECTRIC GLASS PROD.	4	503	576.192	4468.779	27.13	244	1.07	12.53	494.11	0.303	0.0692
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT4	TUBE DRAWING PROCESS GRP	9	9999	576.693	4468.784	16.15	244	0.91	10.30	295.22	0.104	0.0237
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT5	BOILER NO. 2	19	17	576.693	4468.784	17.07	244	0.20	9.11	810.78	0.015	0.0033

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT6	BOILER NO. 3	20	16	576.693	4468.784	12.80	244	0.34	0.03	310.78	0.010	0.0022
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT7	HOT WATER HEATERS	21	41	576.192	4468.779	11.28	244	0.46	14.26	473.00	0.014	0.0031
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT8	SPACE HEATERS	22	519	576.693	4468.784	10.67	244	0.43	6.55	383.00	0.002	0.0005
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT9	SPACE HEATERS	22	519	576.693	4468.784	10.06	244	0.46	9.24	390.78	0.004	0.0008
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT10	CULLET STORAGE PILE	27	512	576.192	4468.779	10.06	244	0.85	1.10	309.67	0.012	0.0026
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT11	CULLET STORAGE PILE	27	9999	576.693	4468.784	10.06	244	0.85	1.10	295.22	0.002	0.0004
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP1	YOUNG BROS BAKE-OUT OVEN	9	9	590.496	4467.683	7.62	357	0.30	23.58	533.00	0.004	0.0009
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP2	DESPATCH BAKE OVEN	10	10	590.496	4467.683	2.44	357	0.23	23.71	533.00	0.001	0.0002
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP3	WELDING	11	11	590.496	4467.683	11.89	357	0.88	0.52	299.67	0.178	0.0406
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP4	BABBITT	13	13	590.496	4467.683	11.28	357	0.52	9.45	310.78	0.020	0.0046
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP5	SPACE HEATERS	14	14	589.490	4467.982	10.67	357	0.43	6.55	383.00	0.021	0.0048
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP6	ABRASIVE BLAST	15	15	589.490	4467.982	7.92	357	0.61	15.24	299.67	0.087	0.0197
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP7	FUGITIVES CLEANING/NDT	17	9999	589.490	4467.982	13.72	357	0.49	5.03	295.22	0.006	0.0014
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM1	BOILER #1	2	2	593.050	4466.504	14.02	274	0.70	16.79	498.00	0.156	0.0355
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM2	OIL FIRED SPACE HEATERS	5	5	593.195	4466.484	6.10	274	0.24	0.03	394.11	0.353	0.0805
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM3	DIE BUILDING HEATERS - 5	6	6	593.195	4466.484	12.19	274	0.30	0.03	366.33	0.024	0.0055
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM4	PACKAGE BOILER HOT WATER	7	7	593.195	4466.484	1.52	274	0.30	0.03	477.44	0.008	0.0018
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM5	HIGH TANK BOILER	8	8	593.195	4466.484	6.10	274	0.24	0.03	477.44	0.001	0.0002
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM6	RACK REPAIR HEATERS - 4	9	9	593.195	4466.484	4.57	274	0.24	4.57	366.33	0.002	0.0004
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM7	WELLNESS CENTER HVAC UNIT	10	10	593.195	4466.484	15.85	274	0.67	7.10	366.33	0.009	0.0021
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM8	VEHICLES AND ROADS	17	9999	593.291	4465.575	17.07	274	0.82	8.02	295.22	0.230	0.0525
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM9	VEHICLES AND ROADS	17	9999	593.291	4465.575	8.84	274	0.46	19.23	295.22	0.226	0.0516
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM10	VEHICLES AND ROADS	17	9999	593.291	4465.575	6.10	274	0.27	8.23	295.22	0.009	0.0020
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN1	UNIT HEATERS (42)	B01	9999	588.792	4486.080	15.85	229	0.67	7.10	295.22	0.306	0.0698
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN2	CULLET STORAGE PILE	F02	9999	588.792	4486.080	20.73	229	1.10	15.88	295.22	0.140	0.0320
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN3	ROADS AND VEHICLES	F03	9999	588.792	4486.080	36.88	229	1.19	5.58	295.22	0.044	0.0100
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN4	ROADS AND VEHICLES	F03	9999	588.792	4486.080	8.84	229	0.46	19.23	295.22	0.004	0.0009
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN5	MELTING FURNACE #1-2	P01	1	588.792	4486.080	41.15	229	1.50	10.30	859.11	30.356	6.9305
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN6	MELTING FURNACE #4	P04	4	588.800	4486.058	19.51	229	1.42	8.11	492.44	9.511	2.1715
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN7	HOT END SURFACE TREATS	P09	9	588.893	4486.082	16.15	229	0.70	12.77	374.67	6.794	1.5512
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN8	ANNEALING LEHRS	P13	9	588.893	4486.082	42.37	229	0.40	2.83	364.67	0.181	0.0412
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN9	MATERIALS HANDLING	P20	7	588.792	4486.080	12.19	229	0.59	24.54	293.00	8.801	2.0094
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD1	RAW MATERIAL RECEIVING	1	9999	592.194	4456.680	20.73	225	1.10	15.88	295.22	1.766	0.4032
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD2	GLASS MELTING AND FORMING	2	1	592.194	4456.680	24.99	225	2.70	25.51	535.22	8.163	1.8637
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD3	GLASS MELTING AND FORMING	2	2	592.194	4456.680	30.48	225	1.98	22.10	554.67	11.015	2.5149
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD4	CULLET PROCESSING	3	9999	592.194	4456.680	17.07	225	1.04	15.91	295.22	0.783	0.1787
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD5	SPACE/WATER HEATERS, NG	4	9999	592.194	4456.680	15.24	225	0.82	7.86	295.22	0.059	0.0134
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD6	FORK TRUCK, PROPANE	9	9999	592.194	4456.680	8.84	225	0.49	8.29	295.22	0.003	0.0006
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD7	SITE DEDICATED VEHICLES	12	9999	592.194	4456.680	10.36	225	0.58	33.62	295.22	0.148	0.0338
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV1	SMALL COMBUSTION, VEHICLES	20	9999	588.250	4477.426	18.90	280	0.85	7.32	295.22	0.011	0.0026
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV2	VEHICLE EMISSIONS	34	9999	588.250	4477.426	8.84	280	0.49	8.29	295.22	0.002	0.0004
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV3	VEHICLE EMISSIONS	34	9999	588.250	4477.426	8.23	280	2.62	2.80	295.22	0.063	0.0143
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL1	MAIN SCREENING PLANT	3	9999	588.250	4477.426	8.84	280	1.04	16.79	295.22	0.140	0.0320
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL2	MAIN SCREENING PLANT	3	9999	588.250	4477.426	8.23	280	1.01	16.15	295.22	0.112	0.0256
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL3	1B-FINES SCREENING PLANT	4	9999	588.250	4477.426	8.84	280	1.07	16.86	295.22	0.014	0.0032
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL4	VEHICLE EMISSIONS	6	9999	588.250	4477.426	8.84	280	0.46	19.23	295.22	1.238	0.2825
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL5	ROADWAY EMISSIONS	7	9999	588.250	4477.426	8.53	280	1.01	15.97	295.22	0.071	0.0162
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL6	MAINT GARAGE HEATING SYS	8	9999	588.250	4477.426	11.28	280	0.46	14.26	295.22	0.001	0.0001
PA	Allegheny	HOECHSTETTER PRINTING	HOECHS	HEATSET WEB PRINTING	1	1	593.823	4478.026	15.54	282	0.24	12.66	435.78	0.021	0.0047
PA	Allegheny	HUSSEY COPPER LTD.	HUSS1	F-1 REVERBERATORY FURNACE	1	1	565.792	4491.682	13.72	216	2.13	15.30	408.56	14.168	3.2347

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	HUSSEY COPPER LTD.	HUSS2	F-7A/B INDUCTION FURNACE	3	2	565.792	4491.682	11.58	216	0.91	8.63	316.33	0.158	0.0360
PA	Allegheny	HUSSEY COPPER LTD.	HUSS3	SC-1 SCALPER	5	4	565.894	4491.682	19.20	216	0.61	19.41	294.11	0.050	0.0114
PA	Allegheny	HUSSEY COPPER LTD.	HUSS4	AF-21 CONTINOUS ANNEALER	6	5	565.895	4491.583	13.72	216	0.41	3.20	755.22	0.077	0.0175
PA	Allegheny	HUSSEY COPPER LTD.	HUSS5	AF-31 CONTINOUS ANNEALER	7	6	565.894	4491.682	18.29	216	0.36	3.66	699.67	0.077	0.0175
PA	Allegheny	HUSSEY COPPER LTD.	HUSS6	F-11 REHEAT FURNACE	8	7	565.800	4491.782	3.66	216	0.85	0.55	1088.56	0.358	0.0817
PA	Allegheny	HUSSEY COPPER LTD.	HUSS7	AF-15 PLATE ANNEALER	9	9	565.894	4491.682	2.44	216	0.85	0.04	810.78	0.002	0.0005
PA	Allegheny	HUSSEY COPPER LTD.	HUSS8	F-16 BELL FURNACE	11	10	565.894	4491.682	3.05	216	0.18	5.49	533.00	0.070	0.0161
PA	Allegheny	HUSSEY COPPER LTD.	HUSS9	F-25 BOX FURNACE	13	12	565.894	4491.682	3.05	216	0.15	7.92	533.00	0.070	0.0161
PA	Allegheny	HUSSEY COPPER LTD.	HUSS10	LC-1 LEAD COATING/DROSSNG	17	9999	565.792	4491.682	40.23	216	2.53	10.73	295.22	0.006	0.0013
PA	Allegheny	HUSSEY COPPER LTD.	HUSS11	COPPER SCRAP HAND/BAILING	21	9999	565.792	4491.682	14.32	216	1.10	12.89	295.22	1.120	0.2558
PA	Allegheny	HUSSEY COPPER LTD.	HUSS12	WEST BOILER	23	14	565.902	4491.738	12.50	216	0.61	0.52	394.11	0.046	0.0106
PA	Allegheny	HUSSEY COPPER LTD.	HUSS13	MISC, NG USAGE	28	9999	565.792	4491.682	15.24	216	0.82	7.86	295.22	0.134	0.0307
PA	Allegheny	HUSSEY COPPER LTD.	HUSS14	BAGHOUSE DUST CAPTURED	31	9999	565.792	4491.682	11.58	216	0.76	14.08	295.22	0.450	0.1028
PA	Allegheny	HUSSEY COPPER LTD.	HUSS15	UNPAVED PLANT ROADWAYS	32	9999	565.792	4491.682	65.53	216	0.94	2.80	295.22	0.033	0.0076
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA1	HMA AGGREGATE PROCESSING	1	1	595.198	4497.284	10.67	324	1.22	16.18	421.89	0.230	0.0525
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA2	HMA AGGREGATE PROCESSING	1	9999	595.198	4497.284	10.36	324	1.25	14.69	295.22	1.653	0.3774
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA3	ASPHALT TANK HEATER UNITS	2	2	595.198	4497.284	3.66	324	0.61	6.47	477.44	0.011	0.0024
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA4	AGG HANDLING SAND	3	9999	595.198	4497.284	9.75	324	1.19	14.20	295.22	4.959	1.1321
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA5	ONSITE VEHICLE/ HIGH LIFT	9	9999	595.198	4497.284	20.42	324	0.64	6.68	295.22	0.179	0.0408
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA6	ONSITE VEHICLE/ HIGH LIFT	9	9999	595.198	4497.284	3.96	324	0.03	5.58	295.22	0.080	0.0183
PA	Allegheny	IDL INCORPORATED	IDL1	UNPAVED PARKING LOTS	8	9999	604.793	4479.682	8.23	347	0.55	9.05	295.22	0.059	0.0134
PA	Allegheny	IDL INCORPORATED	IDL2	MISC NATURAL GAS COMBUSTN	11	9999	604.793	4479.682	16.15	347	0.91	10.30	295.22	0.026	0.0059
PA	Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	JEFFHS	BOILERS	1	1	578.396	4463.384	29.26	366	3.28	0.03	533.00	0.284	0.0649
PA	Allegheny	KELLY RUN SANITATION	KELRN1	DEDICATED DIESEL VEHICLES	1	9999	595.990	4456.483	8.84	315	0.40	23.84	295.22	0.753	0.1719
PA	Allegheny	KELLY RUN SANITATION	KELRN2	BORROW/COVER ACTIVITY	3	9999	595.990	4456.483	21.94	315	1.62	15.39	295.22	0.463	0.1056
PA	Allegheny	KELLY RUN SANITATION	KELRN3	BORROW/COVER ACTIVITY	3	9999	595.990	4456.483	21.33	315	1.28	12.37	295.22	4.479	1.0227
PA	Allegheny	KELLY RUN SANITATION	KELRN4	ENCLOSED GROUND FLARE #1	5	2	595.093	4456.083	9.45	315	2.03	0.61	1160.78	0.570	0.1301
PA	Allegheny	KELLY RUN SANITATION	KELRN5	BLASTING	10	9999	595.990	4456.483	8.84	315	0.98	15.21	295.22	0.575	0.1313
PA	Allegheny	KELLY RUN SANITATION	KELRN6	UNPAVED ROADS	12	9999	595.990	4456.483	1.83	315	0.09	0.67	295.22	1.680	0.3836
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI1	PROCESS FURNACE	18	9999	596.191	4491.779	21.33	245	1.13	9.05	295.22	0.012	0.0028
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI2	BOILER NATURAL GAS	103	1	596.191	4491.779	5.49	245	0.51	3.84	533.00	0.011	0.0026
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI3	PROCESS FURNACE NG	104	2	596.191	4491.779	3.05	245	0.30	50.02	589.11	0.426	0.0973
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL1	HOPKINS 800 HEATER	1	1	595.091	4467.684	3.66	223	0.76	2.07	1144.11	1.036	0.2365
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL2	SELLERS HEATER	2	2	595.091	4467.684	19.81	223	1.13	8.20	473.56	0.017	0.0038
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL3	THERMTECH VAPOR INCIN.	8	9999	595.091	4467.684	19.81	223	1.13	8.20	295.22	0.014	0.0031
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL1	POT FURNACES	3	1	594.292	4475.179	36.57	280	2.44	20.22	505.22	0.299	0.0682
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL2	GLASS FORMING	4	9999	594.292	4475.179	16.76	280	0.85	12.71	295.22	0.105	0.0240
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL3	TEMPERING	5	2	594.292	4475.179	12.19	280	0.10	0.03	366.33	0.008	0.0018
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL4	OFFICE HTG FURNACES	11	6	594.292	4475.179	12.19	280	0.30	0.37	394.11	0.005	0.0012
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL5	PLANT SPACE HEATERS	12	9999	594.292	4475.179	15.85	280	0.67	7.10	295.22	0.020	0.0046
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR1	ROD PITCH MANUFACTURING	2	3	594.697	4462.584	15.24	222	0.30	3.05	324.67	0.258	0.0590
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR2	ROD PITCH MANUFACTURING	2	9999	594.697	4462.584	14.93	222	0.61	8.02	295.22	0.662	0.1511
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR3	PRIMARY FLASH HEATER	5	1	594.697	4462.584	32.00	222	2.06	8.23	921.89	0.713	0.1627
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR4	PRILL HOT OIL HEATER	6	2	594.697	4462.584	12.19	222	0.61	1.25	921.89	0.066	0.0151
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR5	TRANSPORTATION	9	9999	594.697	4462.584	14.02	222	0.40	16.82	295.22	0.030	0.0069
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR6	TRANSPORTATION	9	9999	594.697	4462.584	11.58	222	0.70	4.60	295.22	0.550	0.1257
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR7	TRANSPORTATION	9	9999	594.697	4462.584	8.84	222	0.40	23.84	295.22	0.239	0.0546
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR8	LOADING	11	9999	594.697	4462.584	10.36	222	0.85	1.34	295.22	4.056	0.9260
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR9	COOLING TOWER	28	9999	594.697	4462.584	17.37	222	4.54	10.55	295.22	0.731	0.1668
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM1	CEMENT BULK LOADING	18	9	578.295	4482.777	0.61	223	0.30	27.19	294.11	0.085	0.0193

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM2	BULK TRUCK LOADING	30	16	578.295	4482.777	0.61	223	0.30	19.63	294.11	0.150	0.0342
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM3	CEMENT UNLOADING FRM BRG	54	36	578.295	4482.777	0.61	223	0.30	0.61	294.11	0.290	0.0662
PA	Allegheny	LANGENFELDER & SON, INC.	LANG1	A SCRAP STORAGE & HANDLNG	1	9999	597.692	4472.081	8.84	242	1.04	16.31	295.22	0.310	0.0707
PA	Allegheny	LANGENFELDER & SON, INC.	LANG2	SCRAP CUTTING AND LANCING	3	9999	597.692	4472.081	23.16	242	1.83	9.69	295.22	0.099	0.0225
PA	Allegheny	LANGENFELDER & SON, INC.	LANG3	SLAG PROCESSING	6	9999	597.692	4472.081	8.84	242	1.04	16.67	295.22	2.994	0.6836
PA	Allegheny	LANGENFELDER & SON, INC.	LANG4	SLAG PROCESSING	6	9999	597.692	4472.081	8.23	242	1.01	16.15	295.22	0.923	0.2106
PA	Allegheny	LANGENFELDER & SON, INC.	LANG5	UNPAVED ROADS	8	9999	597.692	4472.081	8.53	242	1.01	16.28	295.22	0.459	0.1048
PA	Allegheny	LAUREL MOUNTAIN WHIRLPOOLS, INC.	LAURL	PROCESS & SPACE HEATING	1	1	600.496	4473.783	28.95	295	0.91	18.68	294.11	0.013	0.0030
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL1	SAWING-DUST COLLECTOR	5	9999	593.490	4465.977	9.45	262	0.52	9.78	295.22	0.020	0.0046
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL2	BOILER, NG	9	6	593.490	4465.977	6.10	262	0.46	1.43	410.78	0.021	0.0048
PA	Allegheny	LIBERTY-PITTSBURGH SYSTEMS, INC.	LPSYS	NATURAL GAS USAGE	5	9999	575.167	4484.610	15.24	218	0.82	7.86	295.22	0.003	0.0007
PA	Allegheny	LOZIER CORPORATION	LOZR1	FACILITY PROCESS, HEATING	2	9999	584.889	4470.082	23.77	298	1.10	7.59	295.22	0.038	0.0087
PA	Allegheny	LOZIER CORPORATION	LOZR2	FACILITY HEATING NG-USUAG	3	9999	584.889	4470.082	10.67	298	0.43	6.55	295.22	0.011	0.0026
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH1	ASPHALT PLANT	1	1	594.749	4467.158	4.88	223	0.80	27.70	380.22	1.068	0.2438
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH2	HOT OIL HEATER	2	2	594.992	4467.483	2.44	223	0.30	3.44	477.44	0.001	0.0002
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH3	GENERATOR	3	3	594.992	4467.483	4.27	223	0.20	0.03	533.00	0.325	0.0742
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH4	VEHICLE FUGITIVES	4	9999	594.992	4467.483	20.42	223	0.64	6.68	295.22	0.104	0.0238
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH5	VEHICLE FUGITIVES	4	9999	594.992	4467.483	8.84	223	0.40	23.84	295.22	0.106	0.0242
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH6	STOCKPILE NATURAL SAND	8	9999	594.992	4467.483	9.75	223	1.19	14.20	295.22	2.670	0.6096
PA	Allegheny	MAYVIEW STATE HOSPITAL	MAYVW	BOILER PLANT	12	1	575.754	4464.212	21.03	274	1.50	2.50	505.22	0.622	0.1420
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR1	STEEL MAKING	1	2	587.795	4481.484	7.62	223	0.84	21.19	421.89	0.213	0.0486
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR2	STEEL MAKING	1	10	587.694	4481.382	8.53	223	1.42	11.82	408.00	0.918	0.2095
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR3	STEEL MAKING	1	9999	587.796	4481.384	14.63	223	1.98	14.78	295.22	1.066	0.2434
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR4	STEEL MAKING	1	9999	587.796	4481.384	12.50	223	0.70	9.54	295.22	2.433	0.5554
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR5	STEEL MAKING	1	9999	587.796	4481.384	11.89	223	1.13	12.19	295.22	2.433	0.5554
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR6	STEEL MAKING	1	9999	587.796	4481.384	10.97	223	2.07	9.85	295.22	0.382	0.0873
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR7	MOLD AND SAND HANDLING	2	3	587.694	4481.382	8.53	223	0.99	28.57	293.00	4.121	0.9409
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR8	MOLD AND SAND HANDLING	2	11	587.696	4481.283	9.45	223	1.52	21.01	293.00	17.469	3.9884
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR9	MOLD AND SAND HANDLING	2	9999	587.796	4481.384	14.02	223	1.25	18.14	295.22	3.815	0.8710
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR10	MOLD AND SAND HANDLING	2	9999	587.796	4481.384	12.50	223	0.82	17.13	295.22	6.453	1.4733
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR11	CLEANING AND FINISHING	3	4	587.796	4481.384	10.06	223	1.16	17.03	293.00	3.485	0.7957
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR12	CLEANING AND FINISHING	3	9	587.796	4481.384	12.80	223	1.51	9.02	293.00	0.835	0.1906
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR13	CLEANING AND FINISHING	3	9999	587.796	4481.384	14.02	223	1.16	14.42	295.22	0.079	0.0180
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR14	CLEANING AND FINISHING	3	9999	587.796	4481.384	10.67	223	0.98	19.57	295.22	0.742	0.1695
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR15	HEAT TREATING FURNACES	5	9999	587.796	4481.384	15.85	223	0.67	7.10	295.22	0.312	0.0712
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR16	LANCE TABLE	7	9999	587.796	4481.384	10.67	223	0.43	6.55	295.22	0.013	0.0029
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR17	ONSITE VEHICLE TRAFFIC	10	9999	587.796	4481.384	13.41	223	1.07	12.22	295.22	0.140	0.0319
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF1	AXLE FORGE	1	3	579.591	4481.281	24.38	221	1.22	5.67	477.44	0.205	0.0467
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF2	AXLE FORGE	1	9999	579.594	4480.981	11.89	221	0.52	7.53	295.22	0.137	0.0312
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF3	WHEEL FORGE	2	1	579.694	4481.182	6.10	221	1.52	1.62	644.11	0.193	0.0441
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY1	BOILER 1,4	1	1	585.994	4476.678	29.26	256	1.22	0.03	394.11	0.182	0.0416
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY2	BOILER 2-3	7	9999	585.994	4476.678	19.81	256	1.13	8.20	295.22	0.352	0.0803
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY3	COOLING TOWERS	11	9999	585.994	4476.678	9.14	256	4.33	9.05	295.22	2.855	0.6519
PA	Allegheny	METALTECH	METAL1	NATURAL GAS COMBUSTION	1	1	587.393	4476.683	20.12	225	1.07	4.24	449.67	1.208	0.2759
PA	Allegheny	METALTECH	METAL2	NATURAL GAS COMBUSTION	1	2	587.393	4476.683	19.81	225	1.13	8.20	288.56	0.002	0.0004
PA	Allegheny	METALTECH	METAL3	NATURAL GAS COMBUSTION	1	3	587.392	4476.783	1.52	225	0.30	3.23	366.33	0.070	0.0161
PA	Allegheny	METALTECH	METAL4	MISCELLANEOUS	4	2	587.393	4476.683	12.50	225	0.58	7.38	288.56	0.320	0.0731
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN1	SCREENS	2	1	595.599	4462.428	24.08	225	1.46	7.92	331.33	0.439	0.1002
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN2	STORAGE PILES	4	1	595.599	4462.428	10.36	225	0.55	5.49	338.00	3.112	0.7105
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN3	ROAD EMISSIONS	5	1	595.599	4462.428	40.23	225	1.65	4.97	416.33	0.061	0.0139

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PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN4	EQUIPMENT FUEL USAGE	6	1	595.599	4462.428	12.80	225	0.58	5.85	380.22	0.001	0.0003
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV1	SLANT FIN BOILER #2 FO	13	2	569.898	4486.279	2.13	221	0.15	0.03	533.00	0.003	0.0006
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV2	OFFICE HEATER NATURAL GAS	18	9999	569.292	4486.684	42.37	221	0.40	2.83	295.22	0.009	0.0021
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB1	BOILERS	1	1	580.595	4469.879	18.29	354	0.91	0.03	394.11	0.161	0.0366
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB2	VEHICLE TRAFFIC	2	9999	580.595	4469.901	36.88	354	1.19	5.58	295.22	0.003	0.0006
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH1	HIGH PRESSURE BOILERS	B01	3	595.495	4459.274	7.62	232	0.41	13.41	560.78	0.069	0.0158
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH2	LOW PRESSURE BOILER NG	B03	5	595.495	4459.274	7.62	232	0.30	6.40	505.22	0.002	0.0004
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH3	FORK TRUCK-CLARK #2 FUEL	F01	9999	595.495	4459.274	3.96	232	0.03	5.58	295.22	0.012	0.0028
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH4	FORK TRUCK-CLARK #2 FUEL	F01	9999	595.495	4459.274	0.00	232	0.00	0.00	295.22	0.003	0.0006
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH5	GRIT BLASTING	GB1	9999	595.495	4459.274	3.05	232	0.20	4.00	295.22	0.009	0.0020
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL1	500# COMBUSTER	1	1	586.890	4462.234	24.08	302	0.20	31.09	410.78	0.011	0.0024
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL2	EXP. COAL COMBUSTER -CERF	2	2	586.894	4461.879	15.24	302	0.10	5.94	338.56	0.001	0.0001
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL3	AJAX BOILER - BLDG 922	4	4	586.894	4461.879	15.85	320	0.81	2.59	394.11	0.003	0.0007
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL4	RAYPAK BOILERS - BLDG 921	6	6	586.894	4461.879	8.53	320	0.61	2.22	394.11	0.001	0.0002
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL5	3 KEWANEE BLRS - BLDG 84	9	9	586.894	4461.879	21.33	302	0.61	2.38	499.67	0.004	0.0009
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL6	FUGITIVES	10	9999	586.894	4461.879	155.44	302	4.45	18.90	295.22	0.762	0.1740
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC1	NO. 3 STILL PROCESS HEATR	2	2	576.394	4483.878	9.14	221	0.46	6.31	599.67	0.040	0.0091
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC2	#4 STILL PROCESS HEATER	4	4	576.394	4483.878	17.68	221	1.31	1.83	599.67	0.133	0.0303
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC3	#15 STILL PROCESS HTR. NG	6	6	576.394	4483.878	21.33	221	0.85	3.29	689.67	0.037	0.0085
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC4	#16 STILL PROCESS HTR. NG	9	8	576.394	4483.878	17.37	221	0.69	3.69	643.00	0.037	0.0083
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC5	#18 STILL PROCESS HTR. NG	12	10	576.394	4483.878	13.41	221	0.61	6.16	614.11	0.043	0.0098
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC6	#19 STILL PROCESS HTR. NG	15	12	576.394	4483.878	8.23	221	0.76	3.93	611.33	0.049	0.0112
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC7	UNIT 21 PROCESS	18	55	576.394	4483.878	13.72	221	0.30	0.01	294.11	0.001	0.0002
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC8	UNIT C-5 PROCESS HTR., NG	22	18	576.394	4483.878	10.97	221	0.53	4.26	602.44	0.049	0.0112
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC9	NO. 2 PACKAGING CENTER	23	20	576.394	4483.878	4.57	221	0.61	7.83	293.00	0.110	0.0251
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC10	NO. 2 PACKAGING CENTER	23	38	576.394	4483.878	3.66	221	0.29	22.10	293.00	0.188	0.0429
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC11	#2 PKG. CENTER HEATER NG	24	23	576.394	4483.878	11.28	221	0.76	2.59	602.44	0.030	0.0068
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC12	#3 PACKAGING CTR. HTR. NG	26	27	576.394	4483.878	15.54	221	0.61	2.44	603.00	0.063	0.0143
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC13	#5 PACKAGINC CTR. HTR. NG	29	29	576.394	4483.878	7.31	221	0.46	4.30	610.78	0.069	0.0158
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC14	NO. 8 BOILER	33	34	576.394	4483.878	16.46	221	1.22	0.58	544.11	0.067	0.0154
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC15	NO. 6 BOILER	35	35	576.394	4483.878	10.67	221	0.91	8.35	451.89	0.921	0.2102
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC16	NO. 7 BOILER	37	36	576.394	4483.878	12.19	221	1.22	7.89	600.22	1.564	0.3571
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC17	VEHICLE EXHAUST	39	9999	576.394	4483.878	14.02	221	0.40	16.82	295.22	0.060	0.0137
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC18	VEHICLE EXHAUST	39	9999	576.394	4483.878	8.84	221	0.40	23.84	295.22	0.260	0.0595
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC19	HYDROLASER/WATER BLASTING	66	9999	576.394	4483.878	15.24	221	0.64	11.09	295.22	0.860	0.1963
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC20	UNIT 43 OXIDIZER NG	72	16	576.394	4483.878	7.01	221	0.61	3.23	599.67	0.172	0.0392
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM1	RAW MATERIAL UNLOADING	1	9999	566.974	4490.216	19.51	212	1.28	10.45	295.22	1.567	0.3579
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM2	MATERIAL CONVEYORS	2	9999	566.974	4490.216	15.85	212	1.25	10.18	295.22	1.425	0.3253
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM3	BALL MILL	3	1	566.974	4490.216	14.02	212	0.38	18.29	294.11	0.121	0.0277
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM4	MECHANICAL SEPARATOR	4	9999	566.974	4490.216	15.54	212	1.25	12.28	295.22	0.047	0.0107
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM5	FINISHED PRODUCT TRANSFER	5	9999	566.974	4490.216	19.81	212	1.43	12.89	295.22	0.686	0.1567
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM6	TRUCK LOADING	6	9999	566.974	4490.216	18.29	212	0.94	11.22	295.22	0.190	0.0434
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM7	VEHICLE EMISSIONS ON SITE	7	9999	566.974	4490.216	0.00	212	0.00	0.00	295.22	0.082	0.0187
PA	Allegheny	NEXTECH	NEXT1	NATURAL GAS COMBUSTION	1	1	599.095	4473.176	25.60	236	1.46	1.98	449.67	0.870	0.1986
PA	Allegheny	NEXTECH	NEXT2	NATURAL GAS COMBUSTION	1	2	599.095	4473.176	33.83	236	1.34	10.52	473.00	0.045	0.0103
PA	Allegheny	NEXTECH	NEXT3	NATURAL GAS COMBUSTION	1	3	599.095	4473.176	13.72	236	0.55	2.19	366.33	0.004	0.0009
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG1	BOILER NO. 1, NATURAL GAS	1	1	584.273	4478.101	15.24	235	0.91	24.14	591.33	0.311	0.0709
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG2	BOILER NO. 2, NATURAL GAS	3	2	584.273	4478.101	15.24	235	0.91	17.10	427.44	0.866	0.1977
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG3	BOILER NO. 3, NATURAL GAS	5	3	584.273	4478.101	15.24	235	1.22	16.18	552.44	1.670	0.3812
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG4	BOILER NO. 4, NATURAL GAS	8	4	584.273	4478.101	18.29	235	0.71	9.14	477.44	0.025	0.0056

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PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN1	TURBINES 1A,1B,1C	1	1	581.245	4479.633	10.06	222	2.00	24.11	735.22	0.246	0.0563
PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN2	TURBINES 2A, 2B, 3 - NG	4	2	581.038	4479.953	21.03	222	3.10	23.01	433.00	0.839	0.1915
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR1	IMPREGNATOR/LAMINATOR	P01	1	593.244	4497.870	13.72	284	0.46	2.13	338.56	0.005	0.0011
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR2	SCREEN PRINTER	P02	3	593.244	4497.870	5.79	284	0.43	13.11	394.11	0.004	0.0009
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC1	ENGINE TEST LAB	1	5	599.191	4488.976	9.14	233	0.13	0.03	533.00	0.685	0.1564
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC2	D2 ROAD SIMULATOR	3	6	599.191	4488.976	9.14	233	0.16	0.03	294.11	0.304	0.0695
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC3	BUILDING B11 W STACK	7	9	599.293	4488.977	9.14	233	0.30	0.03	294.11	0.019	0.0043
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL1	LARGE BAKE OVEN, NG	A03	3	584.790	4473.578	12.19	262	0.37	11.58	416.33	0.006	0.0013
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL2	SMALL BAKE OVEN, NG	A04	4	584.790	4473.578	12.50	262	0.23	1.54	408.00	0.009	0.0020
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL3	COLLAPSIBLE BLASTING ROOM	A09	1	584.790	4473.578	3.05	262	0.20	4.00	295.22	0.002	0.0003
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL4	COIL MFG. OVEN 3 UNITS NG	A14	7	584.790	4473.578	10.97	262	0.20	0.03	533.00	0.013	0.0031
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL5	GAS INSULATOR	A16	10	584.790	4473.578	10.97	262	0.20	0.03	294.11	0.001	0.0001
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL6	SPACE HEATERS, NG	I01	1	584.790	4473.578	10.67	262	0.43	6.55	383.00	0.021	0.0048
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL7	SMALL BURNOFF OVEN	P01	5	584.790	4473.578	15.24	262	0.20	4.75	1033.00	0.002	0.0003
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL8	LARGE BURNOFF OVEN	P02	6	584.790	4473.578	12.19	262	0.46	6.40	1033.00	0.002	0.0005
PA	Allegheny	PITT PENN OIL COMPANY	PITPN1	BOILER, NG	B01	1	603.493	4491.477	7.92	228	0.41	1.83	533.00	0.003	0.0008
PA	Allegheny	PITT PENN OIL COMPANY	PITPN2	MISC SPACE HEATERS	B02	9999	603.489	4492.376	15.85	228	0.67	7.10	293.00	0.008	0.0018
PA	Allegheny	PITT PENN OIL COMPANY	PITPN3	INDUSTRIAL ROADS	F02	9999	603.489	4492.376	10.67	228	0.40	11.13	293.00	0.069	0.0158
PA	Allegheny	PITT PENN OIL COMPANY	PITPN4	INDUSTRIAL ROADS	F02	9999	603.489	4492.376	7.62	228	0.64	7.59	293.00	0.098	0.0224
PA	Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LT	PACT	BOILERS	D 005	1	584.475	4477.415	63.09	220	5.41	2.71	394.11	3.215	0.7340
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW1	COAL BOILER #1-TRAV GRATE	1	1	587.641	4479.417	64.00	232	2.40	4.60	478.00	4.113	0.9391
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW2	DRY GRAIN HANDLING	6	9999	587.496	4479.482	10.67	232	1.16	11.92	295.22	0.542	0.1237
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW3	WEIGH HOPPER&MALT MILL	7	9999	587.496	4479.482	23.16	232	0.55	10.30	295.22	0.006	0.0015
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW4	COOKING,BREW,SEPAR.	8	2	587.496	4479.482	19.51	232	0.15	3.51	371.89	0.020	0.0046
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW5	COAL STORAGE & HANDLING	21	9999	587.496	4479.482	11.89	232	0.49	8.78	295.22	0.040	0.0091
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI1	MICA MACHINE, OTHER	9	9999	593.395	4473.580	19.81	224	1.13	8.20	295.22	0.003	0.0006
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI2	SPACE HEAT	10	1	593.395	4473.580	3.96	224	0.91	4.42	327.44	0.003	0.0006
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	PPGCH1	NO 2 STEAM BOILER	R B02	4	608.720	4477.872	11.89	366	1.20	4.60	348.00	0.022	0.0050
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	PPGCH2	NO 3-5 STEAM BOILERS	R B03	5	608.720	4477.872	7.62	366	0.61	4.28	450.78	0.157	0.0357
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP1	PAINT MANU.-RTO-SEE COM.	1	1	602.752	4488.080	13.11	232	0.60	14.60	476.89	6.244	1.4255
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP2	PAINT MAN.(NO RTO)SEE COM	2	9999	602.752	4488.080	10.36	232	0.76	4.72	295.22	0.074	0.0168
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP3	BOILERS	06A	9999	602.752	4488.080	19.81	232	1.13	8.20	295.22	0.312	0.0711
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT1	48" COATING LINE	S 001	9999	598.290	4464.683	14.32	226	0.88	10.67	295.22	0.129	0.0295
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT2	60" COATING LINE	S 002	4	598.290	4464.683	13.72	226	1.52	15.24	1033.00	0.283	0.0645
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT3	60" COATING LINE	S 002	12	598.290	4464.683	13.72	226	0.46	6.34	380.22	0.004	0.0010
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT4	60" COATING LINE	S 002	14	598.290	4464.683	13.72	226	1.52	12.37	977.44	0.244	0.0556
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT5	YORK SHIPLEY BOILER #1NG	S 003	6	598.290	4464.683	4.27	226	0.15	2.44	533.00	0.079	0.0180
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT6	MISC. SPACE & H2O HEATERS	S 005	9999	598.290	4464.683	15.24	226	0.82	7.86	295.22	0.080	0.0182
PA	Allegheny	PRESSURE CHEMICAL COMPANY	PRESSR	ALL NG COMBUSTION UNITS	2	4	587.393	4479.580	10.67	221	0.43	6.55	294.11	0.038	0.0087
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET1	MEDIA MILLS	1	1	579.993	4479.376	8.84	228	0.58	8.44	315.78	0.757	0.1729
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET2	HEATING & VEHICLES	3	9999	579.993	4479.376	15.85	228	0.67	7.10	295.22	0.008	0.0018
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR1	STEAM BOILER KH-1, NG	1	1	589.096	4486.084	6.10	238	0.46	10.67	533.00	0.099	0.0226
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR2	DRY GOODS HANDLING	3	11	589.197	4486.174	13.72	238	0.30	19.41	294.11	0.265	0.0605
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR3	COOLING TOWER	4	8	589.197	4486.174	9.14	238	1.22	0.03	294.11	0.369	0.0842
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN1	PLANT FUGITIVE EMISSIONS	1	9999	598.097	4490.382	12.19	305	1.62	6.49	295.22	0.064	0.0147
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN2	PLANT FUGITIVE EMISSIONS	1	9999	598.097	4490.382	8.84	305	0.40	23.84	295.22	0.219	0.0499
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN3	RAW MATERIAL STORAGE	2	9999	598.097	4490.382	13.41	305	0.55	15.73	295.22	0.013	0.0029
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN4	CRUSHING/GRINDING/SCREEN	3	9999	598.097	4490.382	11.89	305	0.70	15.12	295.22	0.114	0.0261
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN5	CRUSHING/GRINDING/SCREEN	3	9999	598.097	4490.382	3.05	305	0.20	4.00	295.22	0.029	0.0067
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN6	EXTRUSION LINE	4	6	598.097	4490.382	21.33	305	0.61	29.26	294.11	0.179	0.0408

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN7	BRICK SANDBLASTING	5	9999	598.097	4490.382	7.62	305	0.58	11.22	295.22	0.331	0.0756
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN8	BRICK DRYER	6	5	598.097	4490.382	15.54	305	1.22	12.80	355.22	3.821	0.8723
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN9	NEW PLANT TUNNEL KILN	7	9999	598.097	4490.382	12.50	305	0.94	11.73	295.22	14.479	3.3058
PA	Allegheny	REICHHOLD, INC.	REIC1	BOILERS	1	7	574.398	4468.084	22.86	250	0.91	10.18	493.56	0.683	0.1560
PA	Allegheny	REICHHOLD, INC.	REIC2	THERMAL OXID.#1, BACKUP	3	1	574.398	4468.084	12.19	250	0.91	17.89	482.44	0.004	0.0010
PA	Allegheny	REICHHOLD, INC.	REIC3	PAA STG, T-703, WT-102	5	9999	574.398	4468.084	8.84	250	1.19	0.43	295.22	0.186	0.0425
PA	Allegheny	REICHHOLD, INC.	REIC4	PAA STG, T-703, WT-102	5	9999	574.398	4468.084	5.49	250	0.12	0.00	295.22	0.180	0.0411
PA	Allegheny	REICHHOLD, INC.	REIC5	THERMINOL FURNACE,NAT GAS	9	3	574.398	4468.084	15.54	250	2.06	0.03	671.89	0.131	0.0299
PA	Allegheny	REICHHOLD, INC.	REIC6	BLDG 39 POLYESTER RESINS	10	2	574.398	4468.084	12.19	250	0.61	4.02	449.67	0.031	0.0070
PA	Allegheny	REICHHOLD, INC.	REIC7	DOWTHERM VAPORIZER #1 & 2	13	5	574.398	4468.084	15.54	250	0.51	1.74	783.00	0.007	0.0016
PA	Allegheny	REICHHOLD, INC.	REIC8	FUGITIVES EQUIPMENT	15	9999	574.398	4468.084	8.53	250	0.61	2.53	295.22	0.008	0.0018
PA	Allegheny	REICHHOLD, INC.	REIC9	MAA STG 707,WT 103	18	9999	574.398	4468.084	8.84	250	0.67	1.22	295.22	0.272	0.0621
PA	Allegheny	REICHHOLD, INC.	REIC10	COOLING TOWERS	19	9999	574.398	4468.084	9.14	250	4.33	9.05	295.22	18.174	4.1492
PA	Allegheny	REICHHOLD, INC.	REIC11	RESIN COOLING BELT	20	4	574.398	4468.084	10.97	250	0.76	13.36	399.67	0.095	0.0218
PA	Allegheny	REICHHOLD, INC.	REIC12	RESIN COOLING BELT	20	9999	574.398	4468.084	12.19	250	0.15	3.47	295.22	0.106	0.0241
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS1	BLDG#6 HOT MELT	3	6	596.091	4482.385	4.27	231	0.69	0.03	310.78	0.004	0.0008
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS2	BLDG#9 GENERAL COATINGS	5	1	596.091	4482.385	1.83	231	0.16	0.03	294.11	0.088	0.0201
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS3	BLDG#10 NATURAL GAS	11	10	596.115	4483.185	1.22	231	0.16	0.03	294.11	0.003	0.0006
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO1	HSI AREA, SOLUTION POLY	1	130	593.093	4457.579	28.65	225	0.08	0.21	283.00	0.055	0.0126
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO2	HSI AREA, SOLUTION POLY	1	132	593.093	4457.579	3.66	225	0.26	73.76	293.00	0.109	0.0249
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO3	HSI AREA, SOLUTION POLY	1	297	593.093	4457.579	28.95	225	0.20	21.79	310.78	0.033	0.0074
PA	Allegheny	SCHENLEY SCHOOL	SCHNLY	GAS FIRED BOILERS	3	1	588.593	4478.484	38.10	305	2.29	0.03	533.00	0.087	0.0200
PA	Allegheny	SHALER AREA INTERMEDIATE SCHOOL	SHALR	BOILERS	1	1	601.896	4486.881	9.45	305	0.79	0.03	421.89	0.038	0.0087
PA	Allegheny	SHENANGO INC.	SHEN1	BOILER #9, COKE OVEN GAS	6	33	578.213	4483.353	38.10	221	3.10	10.09	627.44	6.352	1.4503
PA	Allegheny	SHENANGO INC.	SHEN2	BOILER #10, COKE OVEN GAS	9	34	578.265	4483.298	34.14	221	3.10	10.70	477.44	3.690	0.8424
PA	Allegheny	SHENANGO INC.	SHEN3	BATTERY S1 FUGITIVES	11	9999	578.193	4482.876	56.39	221	2.65	4.88	295.22	0.071	0.0162
PA	Allegheny	SHENANGO INC.	SHEN4	BATTERY S1 FUGITIVES	11	9999	578.193	4482.876	55.17	221	2.35	6.58	295.22	0.140	0.0320
PA	Allegheny	SHENANGO INC.	SHEN5	BATTERY S1 FUGITIVES	11	9999	578.193	4482.876	53.03	221	2.10	6.77	295.22	1.944	0.4438
PA	Allegheny	SHENANGO INC.	SHEN6	BATTERY S-1 UNDERFIRE	12	4	577.897	4483.572	76.20	221	2.59	9.02	590.22	18.345	4.1884
PA	Allegheny	SHENANGO INC.	SHEN7	PEC BAGHOUSE	14	43	577.998	4482.885	45.72	221	3.05	19.41	294.11	22.300	5.0913
PA	Allegheny	SHENANGO INC.	SHEN8	QUENCH TOWER, BATTERY S-1	16	17	578.193	4482.876	17.07	221	4.57	4.31	338.56	6.480	1.4795
PA	Allegheny	SHENANGO INC.	SHEN9	COAL HANDLING	21	9999	578.193	4482.876	55.17	221	1.71	6.49	295.22	0.347	0.0792
PA	Allegheny	SHENANGO INC.	SHEN10	COAL STOCKPILE EROSION	22	9999	578.193	4482.876	91.44	221	4.33	4.63	295.22	0.360	0.0822
PA	Allegheny	SHENANGO INC.	SHEN11	COKE HANDLING	23	9999	578.193	4482.876	24.08	221	1.46	7.92	295.22	0.076	0.0174
PA	Allegheny	SHENANGO INC.	SHEN12	COOLING TOWERS	27	9999	578.193	4482.876	9.14	221	4.33	9.05	295.22	3.900	0.8904
PA	Allegheny	SHENANGO INC.	SHEN13	UNPAVED ROADS	29	9999	578.193	4482.876	17.07	221	0.82	8.02	295.22	2.420	0.5525
PA	Allegheny	SHENANGO INC.	SHEN14	EMERGENCY FLARE	30	42	577.998	4482.885	21.33	221	0.91	24.08	584.11	0.002	0.0004
PA	Allegheny	SHENANGO INC.	SHEN15	EMERGENCY FLARE	30	9999	578.193	4482.876	14.02	221	0.58	4.39	295.22	0.001	0.0003
PA	Allegheny	SHENANGO INC.	SHEN16	PLANT VEHICLE EXHAUST	35	9999	578.193	4482.876	14.02	221	0.40	16.82	295.22	0.027	0.0061
PA	Allegheny	SHENANGO INC.	SHEN17	PLANT VEHICLE EXHAUST	35	9999	578.193	4482.876	8.84	221	0.40	23.84	295.22	2.436	0.5562
PA	Allegheny	SHENANGO INC.	SHEN18	#1 PACKAGE BOILER	36	100	577.692	4482.982	21.33	221	0.91	14.84	421.89	0.013	0.0029
PA	Allegheny	SOUTH HIGH SCHOOL	SOUTH	GAS FIRED BOILERS # 1-3	3	1	585.696	4475.975	32.00	223	1.68	0.03	533.00	0.063	0.0143
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI1	BOILER	4	1	581.194	4480.476	53.34	215	2.44	2.90	588.56	0.298	0.0680
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI2	FM01 COAL BUNKER	5	9999	581.193	4480.576	20.12	215	1.10	17.43	295.22	0.001	0.0001
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI3	BAKING OVEN	8	9999	581.193	4480.576	16.76	215	0.64	8.38	295.22	0.008	0.0017
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI4	EMERGENCY ELECTRICITY	9	9999	581.193	4480.576	12.50	215	0.43	13.35	295.22	0.013	0.0029
PA	Allegheny	SUN REFINING AND MARKETING, BLAWNOX	SUNREF	FURNACES C2G-15,C3GO25 NG	12	9999	596.596	4483.979	42.37	296	0.40	2.83	295.22	0.012	0.0027
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV1	PLASTICIZER PLANT	1	9999	577.995	4483.184	8.53	222	0.61	10.30	295.22	0.311	0.0710
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV2	PHTHALIC ANHYDRIDE DIST	2	9999	577.995	4483.184	3.05	222	0.20	4.00	295.22	0.190	0.0434
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV3	ONSITE VEHICLES EMISSIONS	5	9999	577.995	4483.184	14.02	222	0.40	16.82	295.22	0.006	0.0015

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PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV4	ROAD DUST EMISSIONS	6	9999	577.995	4483.184	11.89	222	1.19	6.95	295.22	0.022	0.0050
PA	Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	LANEBR	ROTARY DRYERS	4	1	575.190	4469.579	10.36	247	0.91	13.41	366.33	5.181	1.1829
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM1	STOCKPILE OF AGGREGATES	3	1	580.591	4480.581	10.06	222	1.20	12.19	377.44	5.095	1.1632
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM2	ROTARY DRYER	7	9999	580.591	4480.581	10.36	222	0.55	5.49	295.22	0.005	0.0012
PA	Allegheny	THE VALSPAR CORPORATION	VALSP1	BUILDING 5, THIOKOL	2	1	580.994	4480.885	9.14	218	0.91	3.84	326.33	2.899	0.6619
PA	Allegheny	THE VALSPAR CORPORATION	VALSP2	BUILDING 7, SMALL ORDER	3	9999	580.994	4480.885	9.14	218	0.91	3.84	295.22	0.102	0.0234
PA	Allegheny	THE VALSPAR CORPORATION	VALSP3	BOILERS, CB 720-150	7	7	580.994	4480.885	15.24	218	0.46	0.03	338.56	0.078	0.0177
PA	Allegheny	THE VALSPAR CORPORATION	VALSP4	BOILERS - KEWANEE	9	9999	580.994	4480.885	15.24	218	0.82	7.86	295.22	0.081	0.0184
PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT1	ABRASIVE BLAST	1	1	579.796	4480.384	4.57	224	0.52	0.03	310.78	0.110	0.0251
PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT2	INT & EXT COATINGS	2	9999	579.796	4480.384	15.24	224	0.82	7.86	295.22	0.025	0.0057
PA	Allegheny	TRUMBULL CORPORATION	TRUMB1	CARBONATES AGGREGATE	1	9999	572.996	4484.777	9.75	219	1.19	14.20	295.22	4.522	1.0323
PA	Allegheny	TRUMBULL CORPORATION	TRUMB2	LIMESTONE COARSE	3	9999	572.996	4484.777	12.50	219	0.58	14.84	295.22	0.701	0.1600
PA	Allegheny	TRUMBULL CORPORATION	TRUMB3	ROTARY DRUM	8	1	572.996	4484.777	10.67	219	1.26	28.59	449.67	3.063	0.6993
PA	Allegheny	TRUMBULL CORPORATION	TRUMB4	COLD AGGREGATE HANDLING	10	9999	572.996	4484.777	10.36	219	1.25	14.69	295.22	4.904	1.1196
PA	Allegheny	TRUMBULL CORPORATION	TRUMB5	HIGHLIFT	13	9999	572.996	4484.777	3.96	219	0.03	5.58	295.22	0.254	0.0580
PA	Allegheny	TRUMBULL CORPORATION	TRUMB6	ROADWAY FUGITIVE DUST	14	9999	572.996	4484.777	20.42	219	0.64	6.68	295.22	0.148	0.0338
PA	Allegheny	TUBE CITY, INC.	TUBE1	SCRAP METAL SHREDDING	1	1	588.990	4467.177	4.57	369	0.91	0.03	294.11	0.160	0.0365
PA	Allegheny	TUBE CITY, INC.	TUBE2	SCRAP METAL SHEARING	2	9999	588.990	4467.177	17.07	369	0.82	8.02	295.22	0.030	0.0068
PA	Allegheny	TUBE CITY, INC.	TUBE3	SPACE HEATERS (ALL)	3	9999	588.990	4467.177	42.37	369	0.40	2.83	295.22	0.004	0.0009
PA	Allegheny	TUBE CITY, INC.	TUBE4	ROADWAY TRAFFIC - UNPAVED	4	9999	588.990	4467.177	40.23	369	1.65	4.97	295.22	0.019	0.0044
PA	Allegheny	TUBE CITY, INC.	TUBE5	TORCH CUTTING OPERATIONS	5	9999	588.990	4467.177	21.94	369	2.26	18.35	295.22	0.327	0.0746
PA	Allegheny	TUBE CITY, INC.	TUBE6	ROADWAY TRAFFIC - PAVED	6	9999	588.990	4467.177	36.88	369	1.19	5.58	295.22	0.004	0.0008
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE1	HEATERS, FURNACES, ETC	P01	2	578.198	4474.283	13.72	235	0.15	0.03	294.11	0.008	0.0018
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE2	HARDENING FURNACES	P05	3	578.198	4474.283	9.14	235	0.91	4.31	294.11	0.396	0.0905
PA	Allegheny	UNITED REFINING CO.SPRINGDALE ASPHALT T	UNIREF	BOILER F-2	E 002	1	603.517	4492.188	7.01	232	0.61	4.60	496.89	0.053	0.0121
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC1	FACILITY BOILERS	C B03	1	599.293	4488.944	46.02	288	1.31	15.21	477.44	0.640	0.1461
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC2	HOT WATER BOILERS	C B05	2	598.895	4488.983	9.14	288	0.76	2.20	516.33	0.010	0.0022
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC3	DIESEL EMERG GEN	C D01	9999	599.192	4488.876	8.84	288	0.40	23.84	295.22	0.003	0.0007
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC4	EMERG GENERATORS NG	C N01	9999	599.192	4488.876	7.62	288	0.30	26.58	295.22	0.039	0.0088
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC5	GASOLINE VEHICLES	C V01	9999	599.192	4488.876	3.05	288	0.20	4.00	295.22	0.009	0.0020
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC6	DIESEL VEHICLES	C V02	9999	599.192	4488.876	3.96	288	0.03	5.58	295.22	0.009	0.0019
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL1	ELECTRIC ARC FURNACE G	1	1	575.687	4468.263	21.03	250	4.50	14.51	312.44	5.590	1.2763
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL2	ELECTRIC ARC FURNACE G	1	9999	575.692	4467.775	26.82	250	1.40	6.13	295.22	1.980	0.4521
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL3	ELECTRIC ARC FURNACE G	1	9999	575.692	4467.775	24.99	250	2.44	11.73	295.22	1.510	0.3447
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL4	ARGON-OXYGEN DECARB (AOD)	2	9999	575.692	4467.775	9.14	250	1.40	12.22	295.22	0.880	0.2009
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL5	LADLE REHEAT	3	9999	575.692	4467.775	13.11	250	0.70	5.79	295.22	0.075	0.0172
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL6	ELECTRO-SLAG REMELT S	7	2	575.692	4467.775	4.57	250	0.70	22.01	291.33	0.006	0.0013
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL7	SPACE HEATERS	9	9999	575.692	4467.775	10.67	250	0.43	6.55	295.22	0.035	0.0079
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL8	ANNEALING FURNACES	11	9999	575.692	4467.775	33.83	250	1.34	10.52	295.22	1.883	0.4300
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL9	LIME SILO	16	9999	575.692	4467.775	45.72	250	0.40	1.46	295.22	0.005	0.0011
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL10	WARMING FURNACE	18	9999	575.692	4467.775	15.24	250	0.82	7.86	295.22	0.090	0.0205
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL11	ROAD DUST	23	9999	575.692	4467.775	40.23	250	1.65	4.97	295.22	0.050	0.0114
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL12	ROAD DUST	23	9999	575.692	4467.775	36.88	250	1.19	5.58	295.22	0.043	0.0098
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL13	VEHICLE EMISSIONS	V01	9999	575.692	4467.775	3.96	250	0.03	5.58	295.22	1.079	0.2463
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT1	NG BOILERS	B01	9999	588.250	4477.426	23.77	281	1.10	7.59	295.22	0.347	0.0792
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT2	DIESEL EMERG GENS	DG1	9999	588.250	4477.426	8.84	281	0.40	23.84	295.22	0.160	0.0364
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT3	NG EMER HEATERS	NG1	9999	588.250	4477.426	7.62	281	0.30	26.58	295.22	0.003	0.0007
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT4	WELDING RODS	W01	9999	588.250	4477.426	3.05	281	0.20	4.00	295.22	0.001	0.0001
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO1	MONTEFIORE BOILERS	1	1	588.025	4477.068	53.03	305	1.80	8.11	477.44	0.463	0.1056
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO2	SCAIFE INCINERATORS	3	2	588.106	4477.402	57.60	310	0.91	4.91	583.00	0.118	0.0270

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO3	BST INCINERATOR	4	3	588.014	4477.301	85.34	310	0.41	12.19	338.56	0.005	0.0011
PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE1	BOILERS	5	1	588.089	4476.647	36.88	274	0.91	1.31	505.22	0.491	0.1121
PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE2	EMERGENCY GENERATORS	8	2	588.097	4476.680	12.19	274	1.04	25.60	613.00	0.043	0.0097
PA	Allegheny	UPMC MCKEESPORT	UPMCM1	BOILER #1	1	1	597.697	4467.784	15.24	244	0.91	5.64	477.44	0.075	0.0172
PA	Allegheny	UPMC MCKEESPORT	UPMCM2	BOILER #2	2	2	597.690	4467.684	15.24	244	0.91	5.64	463.56	0.075	0.0172
PA	Allegheny	UPMC MCKEESPORT	UPMCM3	EMERGENCY GENERATORS	4	4	597.690	4467.684	13.72	244	0.24	32.12	766.33	0.042	0.0096
PA	Allegheny	UPMC MCKEESPORT	UPMCM4	GAS FIRED CHILLERS	5	5	597.791	4467.774	15.24	244	0.09	28.74	421.89	0.159	0.0364
PA	Allegheny	UPMC SHADYSIDE	UPMCS1	MAIN BOILERS	1	6	589.913	4478.755	46.02	270	2.10	1.71	560.78	0.802	0.1831
PA	Allegheny	UPMC SHADYSIDE	UPMCS2	EAST WING BOILERS	3	2	589.192	4478.780	27.43	270	0.41	7.31	505.22	0.012	0.0027
PA	Allegheny	UPMC SHADYSIDE	UPMCS3	MEDICAL CENTER BOILERS	4	3	589.192	4478.780	4.57	270	0.41	7.31	505.22	0.022	0.0050
PA	Allegheny	UPMC SHADYSIDE	UPMCS4	MEDICAL CENTER BOILERS	4	7	589.192	4478.780	3.66	234	0.41	7.31	505.22	0.022	0.0050
PA	Allegheny	UPMC SHADYSIDE	UPMCS5	EMERGENCY GENERATORS	7	9999	589.192	4478.780	11.28	270	0.40	8.96	295.22	0.317	0.0724
PA	Allegheny	UPMC SOUTHSIDE	UPMSS1	HEATING BOILERS	1	1	586.692	4475.676	34.14	234	0.61	0.03	449.67	0.153	0.0350
PA	Allegheny	UPMC SOUTHSIDE	UPMSS2	HOSPITAL EMER. GENERATORS	2	9999	586.692	4475.676	11.28	234	0.40	8.96	295.22	0.086	0.0197
PA	Allegheny	US AIRWAYS MAINTENANCE BASE	AIRMNT	HG1-5-1 VEHICLE EXHST	16	16	564.894	4483.981	9.14	358	0.30	8.08	294.11	0.103	0.0236
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV1	BOILER #1	1	1	593.084	4465.172	21.03	287	1.10	10.24	513.56	2.111	0.4820
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV2	BOILER #2	3	2	593.105	4465.517	22.86	287	1.30	7.99	513.56	1.866	0.4260
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV3	BOILER #3-4	5	3	593.316	4465.586	29.87	287	3.10	9.69	644.11	1.012	0.2310
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV4	80 INCH MILL REHEAT	10	91	593.151	4465.906	21.33	287	1.98	29.44	508.00	27.787	6.3439
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV5	84 INCH PICKLING LINE	13	14	593.291	4465.575	35.05	287	1.37	15.31	327.44	2.800	0.6393
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV6	COLD REDUCTION MILL	14	4	593.291	4465.575	26.21	287	1.34	5.39	382.44	18.050	4.1210
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV7	COLD REDUCTION MILL	14	9999	593.192	4465.385	26.21	287	1.34	5.39	295.22	3.600	0.8219
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV8	#1 GALV. LINE PREHEAT	15	16	593.294	4465.375	25.60	287	1.42	0.03	944.11	0.675	0.1541
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV9	#2 GALV. LINE PREHEAT	17	19	593.294	4465.375	26.82	287	1.37	0.03	944.11	0.541	0.1235
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV10	HPH ANNEALING FCES	20	212	593.291	4465.575	16.76	287	0.76	2.44	644.11	1.928	0.4401
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV11	OPEN COIL ANNEALING	22	23	593.227	4465.241	20.12	287	3.00	0.40	478.00	0.909	0.2075
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV12	CONTINUOUS ANNEALING	24	25	593.202	4465.895	25.91	287	1.10	4.21	478.00	0.404	0.0923
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV13	TERNE LINE, NATURAL GAS	25	5	593.291	4465.575	33.83	287	1.34	10.52	473.00	0.057	0.0130
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV14	TERNE LINE PROCESS	26	6	593.291	4465.575	23.77	287	1.37	8.29	404.67	2.380	0.5434
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV15	PAVED ROADS	30	9999	593.192	4465.385	36.88	287	1.19	5.58	295.22	0.004	0.0008
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV16	UNPAVED ROADS	31	9999	593.192	4465.385	40.23	287	1.65	4.97	295.22	0.064	0.0147
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV17	MISCELLANEOUS NATURAL GAS	34	9999	593.192	4465.385	15.24	287	0.82	7.86	295.22	1.156	0.2640
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV18	64 INCH PICKLING LINE	37	15	593.291	4465.575	15.54	287	0.76	12.40	328.00	2.140	0.4886
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV19	COOLING TOWER	39	9999	593.192	4465.385	9.14	287	4.33	9.05	295.22	2.050	0.4680
PA	Allegheny	USS - CLAIRTON WORKS	BATFG1	BATTERY FUGITIVES	10	9999	595.493	4462.083	56.39	231	2.65	4.88	295.22	21.616	4.9352
PA	Allegheny	USS - CLAIRTON WORKS	BATFG2	BATTERY FUGITIVES	11	9999	595.493	4462.083	59.13	231	1.58	4.42	295.22	0.629	0.1436
PA	Allegheny	USS - CLAIRTON WORKS	BATFG3	BATTERY FUGITIVES	11	9999	595.493	4462.083	55.17	231	2.35	6.58	295.22	1.051	0.2400
PA	Allegheny	USS - CLAIRTON WORKS	COMB1	BATTERY 1 UNDERFIRING	13	13	595.828	4461.810	68.88	231	2.40	7.59	526.33	6.980	1.5936
PA	Allegheny	USS - CLAIRTON WORKS	COMB2	BATTERY 2 UNDERFIRING	14	14	595.820	4461.810	68.88	231	2.40	7.71	534.11	7.150	1.6324
PA	Allegheny	USS - CLAIRTON WORKS	COMB3	BATTERY 3, UNDERFIRING	15	15	595.699	4461.952	68.88	231	2.40	7.41	534.11	4.530	1.0342
PA	Allegheny	USS - CLAIRTON WORKS	COMB7	BATTERY 7, UNDERFIRING	16	16	595.862	4461.832	68.88	231	2.60	7.59	563.00	4.550	1.0388
PA	Allegheny	USS - CLAIRTON WORKS	COMB8	BATTERY 8, UNDERFIRING	17	17	595.853	4461.843	68.88	231	2.60	7.70	561.89	4.950	1.1301
PA	Allegheny	USS - CLAIRTON WORKS	COMB9	BATTERY 9, UNDERFIRING	18	18	595.733	4461.975	68.88	231	2.60	6.71	560.78	3.710	0.8470
PA	Allegheny	USS - CLAIRTON WORKS	COMB13	BATTERY 13, UNDERFIRING	19	19	595.348	4462.125	68.88	231	2.60	6.89	545.78	3.740	0.8539
PA	Allegheny	USS - CLAIRTON WORKS	COMB14	BATTERY 14, UNDERFIRING	20	20	595.340	4462.136	68.88	231	2.60	6.89	545.78	5.020	1.1461
PA	Allegheny	USS - CLAIRTON WORKS	COMB15	BATTERY 15, UNDERFIRING	21	21	595.219	4462.279	68.88	231	2.60	6.89	545.78	3.670	0.8379
PA	Allegheny	USS - CLAIRTON WORKS	COMB19	BATTERY 19, UNDERFIRING	22	22	595.238	4462.091	75.89	231	3.80	6.40	555.78	10.450	2.3858
PA	Allegheny	USS - CLAIRTON WORKS	COMB20	BATTERY 20, UNDERFIRING	23	23	595.119	4462.100	75.89	231	3.80	5.91	541.89	9.740	2.2237
PA	Allegheny	USS - CLAIRTON WORKS	COMBB	BATTERY B, UNDERFIRING	24	24	595.439	4462.371	96.01	231	5.50	3.81	491.89	9.390	2.1438
PA	Allegheny	USS - CLAIRTON WORKS	PEC1S	PEC BAGHOUSE 1-3, STACK	25	25	595.811	4461.854	24.99	231	1.22	8.84	324.67	1.947	0.4446

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	USS - CLAIRTON WORKS	PEC1C	HOT CAR 1-3, NO STACK	25	930	595.493	4462.083	10.97	231	4.48	1.52	1033.00	14.045	3.2066
PA	Allegheny	USS - CLAIRTON WORKS	PEC1P	PUSHING FUGITIVES 1-3	25	935	595.690	4461.974	10.97	231	7.50	1.52	1033.00	19.007	4.3395
PA	Allegheny	USS - CLAIRTON WORKS	PEC1U	UNCONTROLLED PUSH 1-3	25	940	595.690	4461.974	10.97	231	0.58	1.52	1033.00	1.082	0.2470
PA	Allegheny	USS - CLAIRTON WORKS	PEC7S	PEC BAGHOUSE 7-9, STACK	26	26	595.819	4461.854	24.99	231	1.22	8.66	324.67	2.070	0.4725
PA	Allegheny	USS - CLAIRTON WORKS	PEC7C	HOT CAR 7-9, NO STACK	26	931	595.493	4462.083	10.97	231	4.51	1.52	1033.00	13.853	3.1628
PA	Allegheny	USS - CLAIRTON WORKS	PEC7P	PUSHING FUGITIVES 7-9	26	936	595.792	4461.976	10.97	231	8.41	1.52	1033.00	18.766	4.2844
PA	Allegheny	USS - CLAIRTON WORKS	PEC7U	UNCONTROLLED PUSH 7-9	26	941	595.792	4461.976	10.97	231	0.70	1.52	1033.00	0.895	0.2044
PA	Allegheny	USS - CLAIRTON WORKS	PEC13S	PEC BAGHOUSE 13-15, STACK	27	27	595.271	4462.191	24.99	231	0.91	16.95	324.67	2.654	0.6059
PA	Allegheny	USS - CLAIRTON WORKS	PEC13C	HOT CAR 13-15, NO STACK	27	932	595.493	4462.083	10.97	231	5.09	1.52	1033.00	16.894	3.8570
PA	Allegheny	USS - CLAIRTON WORKS	PEC13P	PUSHING FUGITIVES 13-15	27	937	595.193	4462.279	10.97	231	8.41	1.52	1033.00	22.845	5.2157
PA	Allegheny	USS - CLAIRTON WORKS	PEC13U	UNCONTROLLED PUSH 13-15	27	942	595.193	4462.279	10.97	231	0.67	1.52	1033.00	1.402	0.3200
PA	Allegheny	USS - CLAIRTON WORKS	PEC19S	PEC BAGHOUSE 19-20, STACK	28	28	595.271	4462.180	24.99	231	0.91	15.60	304.67	2.891	0.6601
PA	Allegheny	USS - CLAIRTON WORKS	PEC19C	HOT CAR 19-20, NO STACK	28	933	595.195	4462.179	10.97	231	4.33	1.85	1033.00	18.101	4.1327
PA	Allegheny	USS - CLAIRTON WORKS	PEC19P	PUSHING FUGITIVES 19-20	28	938	595.195	4462.179	10.97	231	7.89	1.52	1033.00	24.467	5.5861
PA	Allegheny	USS - CLAIRTON WORKS	PEC19U	UNCONTROLLED PUSH 19-20	28	943	595.195	4462.179	10.97	231	0.88	1.52	1033.00	1.590	0.3629
PA	Allegheny	USS - CLAIRTON WORKS	PECBS	PEC BAGHOUSE B, STACK	29	29	595.387	4462.415	15.54	231	1.22	13.78	324.67	9.498	2.1685
PA	Allegheny	USS - CLAIRTON WORKS	PECBC	HOT CAR B, NO STACK	29	934	595.397	4462.282	10.97	231	4.39	1.52	1033.00	6.140	1.4019
PA	Allegheny	USS - CLAIRTON WORKS	PECBP	PUSHING FUGITIVES B	29	939	595.594	4462.184	10.97	231	4.51	1.52	1033.00	8.108	1.8511
PA	Allegheny	USS - CLAIRTON WORKS	PECBU	UNCONTROLLED PUSH B	29	944	595.492	4462.183	10.97	231	0.52	1.52	1033.00	0.024	0.0055
PA	Allegheny	USS - CLAIRTON WORKS	BALLML	BALL MILLS	29	9999	595.493	4462.083	53.03	231	2.10	6.77	295.22	2.167	0.4947
PA	Allegheny	USS - CLAIRTON WORKS	QNCH1	QUENCH TOWER 1, NO STACK	30	945	595.889	4461.677	30.48	231	5.15	3.05	373.00	10.493	2.3955
PA	Allegheny	USS - CLAIRTON WORKS	QNCH3	QUENCH TOWER 3, NO STACK	31	946	595.991	4461.678	30.48	231	5.15	3.05	373.00	10.321	2.3563
PA	Allegheny	USS - CLAIRTON WORKS	QNCH5	QUENCH TOWER 5, NO STACK	32	947	595.391	4462.082	30.48	231	5.15	3.05	373.00	12.603	2.8774
PA	Allegheny	USS - CLAIRTON WORKS	QNCH7	QUENCH TOWER 7, NO STACK	33	948	595.393	4461.982	37.18	231	8.78	3.05	373.00	13.504	3.0831
PA	Allegheny	USS - CLAIRTON WORKS	QNCHB	QUENCH TOWER B, NO STACK	34	949	595.396	4462.381	41.15	231	9.57	3.05	373.00	11.332	2.5873
PA	Allegheny	USS - CLAIRTON WORKS	BOILR1	BOILER 1	35	50	594.976	4462.665	57.91	231	2.70	29.59	458.00	23.235	5.3048
PA	Allegheny	USS - CLAIRTON WORKS	BOILR2	BOILER 2	38	53	594.959	4462.665	57.91	231	2.10	22.01	423.56	18.221	4.1600
PA	Allegheny	USS - CLAIRTON WORKS	BOILRR	BOILER R1/R2	47	59	594.866	4462.586	49.98	231	2.59	7.50	495.78	1.099	0.2510
PA	Allegheny	USS - CLAIRTON WORKS	BOILRT	BOILER T1/T2	51	62	594.808	4462.541	27.13	231	1.50	9.11	495.78	0.821	0.1875
PA	Allegheny	USS - CLAIRTON WORKS	UNLOAD	CRANE UNLOADER	64	973	595.095	4462.677	15.24	231	1.95	0.25	288.56	0.018	0.0041
PA	Allegheny	USS - CLAIRTON WORKS	COALTR	COAL TRANSFER	66	9999	595.493	4462.083	35.96	231	2.83	4.05	295.22	0.863	0.1970
PA	Allegheny	USS - CLAIRTON WORKS	PULV	PULVERIZERS	67	9999	595.493	4462.083	54.56	231	1.92	8.23	295.22	0.010	0.0023
PA	Allegheny	USS - CLAIRTON WORKS	EROS	COAL & COKE STORAGE/EROSION	70	9999	595.493	4462.083	91.44	231	4.33	4.63	295.22	6.162	1.4069
PA	Allegheny	USS - CLAIRTON WORKS	COKETR	COKE TRANSFER	71	9999	595.493	4462.083	21.03	231	0.73	1.52	295.22	4.970	1.1347
PA	Allegheny	USS - CLAIRTON WORKS	SCREEN	SCREENING	75	9999	595.493	4462.083	24.08	231	1.46	7.92	295.22	3.892	0.8886
PA	Allegheny	USS - CLAIRTON WORKS	ROADS	PLANT ROADS	79	9999	595.493	4462.083	17.07	231	0.82	8.02	295.22	4.940	1.1279
PA	Allegheny	USS - CLAIRTON WORKS	VEHICL	VEHICLE & TUG BOAT EXHAUST	80	9999	595.493	4462.083	8.84	231	0.40	23.84	295.22	17.707	4.0427
PA	Allegheny	USS - CLAIRTON WORKS	SCOT	SCOT HYDROGENATION UNIT	83	83	595.537	4462.006	46.02	231	1.20	17.40	638.00	2.044	0.4668
PA	Allegheny	USS - CLAIRTON WORKS	CONVEY	CONVEYORS, HANDLING, ETC.	65A	974	593.991	4463.285	15.24	231	1.95	5.01	288.56	0.241	0.0551
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET1	RILEY BOILER #1	1	12	597.066	4471.939	49.98	233	4.20	12.50	509.11	158.562	36.2013
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET2	RILEY BOILER #2	4	13	597.049	4471.961	49.98	233	4.21	12.53	509.11	340.417	77.7208
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET3	BF STOVE #1	10	1	597.184	4472.007	53.03	233	3.30	9.51	492.44	119.132	27.1990
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET4	BF CASTHOUSE ROOF MONS	15	9999	596.693	4471.879	39.62	233	2.32	9.27	295.22	13.074	2.9848
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET5	BF STOVE #3	16	4	597.022	4472.039	56.99	233	2.59	15.21	492.44	106.762	24.3749
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET6	BF CASTHOUSE BAGHOUSES	22	2	597.134	4471.951	21.03	233	3.51	14.00	290.22	16.860	3.8493
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET7	BFG FLARE	23	3	597.090	4472.051	53.03	233	3.30	9.51	493.00	8.829	2.0157
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET8	BF SLAG HANDLING	24	9999	596.693	4471.879	31.09	233	1.95	9.33	295.22	0.059	0.0134
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET9	HM MIXER & DESULF BAGHSE	25	5	596.493	4472.276	14.63	233	0.73	11.01	320.22	5.360	1.2238
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET10	BOP SECONDARY BAGHOUSE	25	6	596.741	4472.113	27.13	233	1.70	17.71	316.89	2.390	0.5457
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET11	BOP VENTURI SCRUBBER F	25	7	596.595	4472.277	54.86	233	3.05	10.36	314.67	148.077	33.8075

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET12	LADLE METALLURGY BAGHOUSE	25	9	596.493	4472.276	15.24	233	0.76	17.83	319.11	0.260	0.0594
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET13	FLUX UNLOADING BAGHOUSE	25	15	597.090	4471.385	7.92	233	2.25	0.79	292.44	0.143	0.0327
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET14	FLUX TRANSFER TOWER	25	16	597.191	4471.475	3.05	233	2.25	1.11	292.44	0.072	0.0165
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET15	FLUX FINAL TRANSFER #1	25	17	597.293	4471.476	52.73	233	2.57	1.33	292.44	0.222	0.0506
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET16	FLUX FINAL TRANSFER #2	25	18	597.090	4471.385	52.73	233	2.94	0.66	292.44	0.222	0.0506
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET17	BOP BUILDING FUGITIVES	25	25	597.092	4471.884	29.26	233	2.01	11.03	447.44	6.675	1.5240
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET18	BOP SLAG PROCESSING	26	9999	596.693	4471.879	36.27	233	2.38	6.00	295.22	0.057	0.0130
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET19	BOP SLAG PROCESSING	26	9999	596.693	4471.879	8.84	233	1.01	16.34	295.22	0.020	0.0046
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET20	BOP PROCESS FUEL	27	24	597.092	4471.884	41.76	233	2.04	9.97	501.89	1.827	0.4171
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET21	BOP PROCESS FUEL	28	24	597.092	4471.884	15.24	233	0.82	7.86	462.44	0.965	0.2204
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET22	PAVED ROADS	35	9999	596.693	4471.879	36.88	233	1.19	5.58	295.22	0.021	0.0048
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET23	UNPAVED ROADS	36	9999	596.693	4471.879	40.23	233	1.65	4.97	295.22	0.330	0.0754
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET24	STORAGE PILES	37	9999	596.693	4471.879	45.72	233	2.26	8.63	295.22	0.350	0.0799
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET25	CASTER/LMF	39	9999	596.693	4471.879	73.15	233	2.38	3.35	295.22	0.085	0.0193
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET26	CASTER/LMF	40	9999	596.693	4471.879	16.15	233	0.91	10.30	295.22	0.342	0.0781
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET27	BF SLIPS	46	9999	596.693	4471.879	49.38	233	2.41	10.30	295.22	0.249	0.0568
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET28	BF FUME SUPPRESSION	48	9999	596.693	4471.879	41.76	233	2.04	9.97	295.22	0.150	0.0343
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET29	BF RAW MAT'L HANDLING	50	9999	596.693	4471.879	44.50	233	2.23	8.90	295.22	0.204	0.0465
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET30	VACUUM DEGASSER	54	26	597.293	4471.476	29.26	233	2.01	11.03	447.44	0.412	0.0941
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET31	PLANT WIDE MISC COMB	55	9999	596.693	4471.879	15.24	233	0.82	7.86	295.22	0.566	0.1293
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET32	COOLING TOWERS	57	9999	596.693	4471.879	9.14	233	4.33	9.05	295.22	27.910	6.3721
PA	Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	VAASPN	BOILERS #1-4	1	1	594.307	4483.372	25.91	283	0.51	7.07	449.67	0.158	0.0361
PA	Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	VAHIGH	BOILERS #1-3	1	1	594.692	4481.079	18.90	307	0.91	5.00	533.00	0.197	0.0449
PA	Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	VAOAK1	BOILERS #1-3	2	2	588.032	4477.867	45.72	344	2.60	4.69	421.89	0.292	0.0667
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL1	BOILER NO. 2	3	5	574.797	4484.284	10.06	213	0.91	7.31	505.22	0.398	0.0908
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL2	MEAL LOADOUT	5	9999	574.797	4484.284	10.36	213	0.27	5.70	295.22	0.100	0.0228
PA	Allegheny	VORTEC U-PARC PROCESS TEST FACILITY	VORTC1	VORTEC PILOT TEST FACILTY	1	1	598.791	4488.504	21.33	283	0.40	9.94	349.67	0.001	0.0001
PA	Allegheny	WATSON STANDARD COMPANY - NEVILLE ISLAN	WATSN	PIGMENT HANDLING	D 001	9999	588.250	4477.426	8.84	222	0.58	8.44	295.22	0.579	0.1322
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN1	HOT WATER BOILERS	8	2	593.192	4479.684	28.95	273	2.13	0.03	533.00	0.056	0.0127
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN2	GAS FIRED WATER HEATERS	10	1	593.396	4479.675	28.95	273	2.13	0.03	533.00	0.003	0.0008
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA1	BUILDING ROOF FANS	1	1	590.591	4471.781	21.33	228	1.83	0.03	294.11	0.199	0.0454
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA2	STACK FROM FURNACES	1	2	590.591	4471.781	24.38	228	1.22	0.03	533.00	0.078	0.0178
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA3	PLANT FUGITIVES	2	9999	590.591	4471.781	9.45	228	0.98	10.79	295.22	0.040	0.0091
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO1	VIRTUAL FOR P001-P006	1	1	591.197	4472.876	18.29	226	0.03	0.03	294.11	0.187	0.0427
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO2	PLANT FUGITIVES	1	9999	591.197	4472.876	23.77	226	1.10	7.59	295.22	0.005	0.0012
PA	Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	WINTHP	FUEL BURNING BOILERS	12	1	586.197	4478.179	3.05	230	1.07	6.77	521.89	0.532	0.1215

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM1	WASTE OIL BURNERS- 4 SAME	2	2	578.590	4482.180	7.31	218	0.20	0.03	294.11	0.601	0.1372
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM2	BOILERS,WASHER,AIR HTR, ETC	5	9999	578.590	4482.180	15.24	218	0.82	7.86	295.22	0.033	0.0075
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM3	BOILERS,WASHER,AIR HTR, ETC	6	9999	578.590	4482.180	10.67	218	0.40	11.13	295.22	0.011	0.0025
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA1	INTEGRATED TABULAR	1	1	566.329	4491.287	12.19	214	1.52	7.31	294.11	0.732	0.1672
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA2	INTEGRATED TABULAR	3	2	566.329	4491.287	23.47	214	1.14	20.73	294.11	0.830	0.1894
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA3	BALL MILL, PACKAGING, OTHER	3	3	566.329	4491.287	23.47	214	0.71	20.12	294.11	0.260	0.0592
PA	Allegheny	ALLDERDICE SCHOOL	ALLDR1	BOILERS	3	1	591.596	4470.783	25.91	325	1.83	0.03	533.00	0.074	0.0170
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT1	ROTARY DRUM MIX/DRYER NG	1	1	586.772	4476.132	7.92	230	1.20	15.51	450.22	2.449	0.5590
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT2	LIMESTONE COARSE	3	9999	586.896	4476.377	12.50	230	0.58	14.84	295.22	0.709	0.1619
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT3	COLD AGGREGATE HANDLING	7	9999	586.896	4476.377	10.36	230	1.25	14.69	295.22	4.721	1.0778
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT4	HIGHLIFT	9	9999	586.896	4476.377	3.96	230	0.03	5.58	295.22	0.225	0.0513
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT5	CARBONATE AGGREGATES	10	9999	586.896	4476.377	9.75	230	1.19	14.20	295.22	7.884	1.7999
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT6	ASPHALT HEATER	12	9999	586.896	4476.377	42.37	230	0.40	2.83	295.22	0.002	0.0005
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT7	ROADWAY FUGITIVE DUST	13	9999	586.896	4476.377	11.58	230	0.61	13.17	295.22	0.129	0.0295
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP1	HIGH TEMP WATER GEN. 1 NG	11B	14	563.069	4483.366	11.28	341	0.46	0.30	338.56	0.055	0.0125
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP2	125 HOOKSTOWN GRADE ROAD	B02	5	567.823	4481.509	5.49	341	0.15	0.30	338.56	0.002	0.0004
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP3	TWA HANGARS	B03	6	565.249	4483.173	7.62	341	0.61	0.30	338.56	0.100	0.0229
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP4	CARGO RD. FIRE PUMPHOUSE	B04	7	564.720	4483.580	4.57	341	0.30	0.30	338.56	0.007	0.0016
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP5	MAINTENANCE BUILDING	B05	8	565.652	4483.599	6.10	341	0.64	0.30	338.56	0.019	0.0044
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP6	TWA CARGO BUILDING	B06	9	565.106	4482.972	6.10	341	0.15	0.30	338.56	0.010	0.0024
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP7	STORE/WEST DOCK	B08	11	565.898	4483.579	7.92	341	0.15	0.30	338.56	0.017	0.0038
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP8	COMMISSARY	B09	12	565.720	4483.577	6.71	341	0.85	0.30	338.56	0.005	0.0012
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP9	WASTE DISPOSAL BUILDING	B10	13	565.255	4483.407	4.88	341	0.09	0.79	338.56	0.004	0.0009
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP10	UREA/SAND DOME	B14	4	563.088	4483.177	10.67	341	1.07	9.48	538.56	0.483	0.1102
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP11	FUGITIVES	G06	9999	563.069	4483.366	11.89	341	0.43	8.29	295.22	0.007	0.0016
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS1	LIME MIXING	9	6	581.090	4480.675	23.77	222	1.83	14.72	294.11	0.778	0.1777
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS2	FLUIDIZED BED INCIN. #1	12	10	581.027	4480.985	91.44	222	2.41	1.49	316.33	1.384	0.3159
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS3	KEWANEE BOILER	19	19	581.095	4480.975	24.38	222	0.91	3.20	699.67	0.081	0.0184
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS4	PLANT ROADS AND VEHICLES	24	9999	581.095	4480.975	6.10	222	0.70	1.68	295.22	0.020	0.0045
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS5	POT. PERMANGANATE SILO-2	25	9999	581.095	4480.975	11.28	222	0.52	13.14	295.22	0.014	0.0031
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS6	ASH SILOS	30	9999	581.095	4480.975	24.08	222	0.79	12.65	295.22	0.010	0.0024
PA	Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	AESPRG	UNITS 1-2, 3-5	3	2	604.393	4488.880	22.86	227	2.74	20.24	708.56	3.814	0.8708
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD1	EIF SCRAP PREHEATERS	3	3	608.490	4497.177	28.04	236	1.07	11.89	366.33	6.555	1.4967
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD2	ELECTRIC INDUCTION FCES	5	4	608.388	4497.175	20.12	236	0.79	17.37	324.67	6.978	1.5932
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD3	ELECTRIC INDUCTION FCES	5	9999	607.494	4496.985	11.89	236	1.13	13.26	295.22	28.701	6.5527
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD4	HOT METAL DESULFURIZATION	6	5	608.388	4497.175	24.99	236	0.61	27.43	380.22	3.002	0.6854
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD5	HOT METAL DESULFURIZATION	6	9999	607.494	4496.985	25.30	236	1.58	17.65	295.22	0.968	0.2209
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD6	BASIC OXYGEN FCES	7	1	608.490	4497.177	45.41	236	3.05	11.32	333.00	8.008	1.8283
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD7	BASIC OXYGEN FCES	7	9999	607.494	4496.985	97.53	236	2.38	11.16	295.22	7.200	1.6437
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD8	BASIC OXYGEN FCES	7	9999	607.494	4496.985	49.68	236	2.71	8.81	295.22	0.088	0.0200
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD9	BASIC OXYGEN FCES	7	9999	607.494	4496.985	43.89	236	2.35	11.40	295.22	0.233	0.0532
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD10	EAF MELTING	13	52	607.694	4496.077	25.60	236	5.18	1.90	366.33	11.966	2.7319
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD11	EAF CANOPY BAGHOUSE	14	50	608.449	4497.076	18.90	236	3.10	3.20	366.33	5.913	1.3500
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD12	EAF CANOPY BAGHOUSE	14	9999	607.494	4496.985	24.99	236	2.44	11.73	295.22	17.034	3.8890
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD13	EAF MELTING	15	53	607.694	4496.077	22.86	236	4.27	2.77	366.33	2.922	0.6671
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD14	EAF MELTING	16	54	607.694	4496.077	22.86	236	4.27	1.83	366.33	2.922	0.6671
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD15	AOD	18	49	608.448	4497.176	22.86	236	3.10	3.41	366.33	38.032	8.6830
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD16	AOD	18	9999	607.494	4496.985	29.26	236	2.01	11.03	295.22	4.328	0.9882
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD18	CONTINUOUS CASTER	26	9999	607.494	4496.985	30.78	236	2.96	10.61	295.22	1.249	0.2853
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD19	LOFTUS SOAK PITS	28	16	607.292	4495.783	38.10	236	1.22	7.71	810.78	0.481	0.1098
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD20	LOFTUS SOAK PITS	28	18	607.192	4495.681	38.10	236	1.83	3.41	810.78	1.110	0.2534

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD21	LOFTUS SOAK PITS	28	19	607.192	4495.681	38.10	236	1.83	2.56	810.78	0.358	0.0817
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD22	A/M SOAK PITS	29	20	607.393	4495.784	38.10	236	1.22	4.75	810.78	0.148	0.0338
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD23	A/M SOAK PITS	29	21	607.393	4495.784	38.10	236	1.83	2.10	810.78	0.148	0.0338
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD24	SALEM REHEAT FURNACE	30	23	607.393	4495.784	38.10	236	2.44	11.97	810.78	16.736	3.8211
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD25	RUST REHEAT FURNACE	31	24	607.292	4495.783	38.10	236	1.52	19.98	810.78	3.045	0.6952
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD26	HOT STRIP UNIVERSAL MILL	33	25	607.290	4495.883	21.33	236	2.44	3.03	338.56	4.798	1.0955
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD27	HOT STRIP MILL FUGITIVES	34	9999	607.494	4496.985	26.21	236	1.77	8.02	295.22	0.480	0.1095
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD28	#1 A&P LINE, SHOTBLAST	35	48	607.594	4495.976	3.05	236	0.91	12.94	294.11	4.816	1.0994
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD29	#2 A&P LINE, KOLENE DESC.	38	42	606.595	4495.984	16.76	236	1.31	3.90	313.56	0.909	0.2076
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD30	#2 A&P ANNEALING FCE. NG	39	9999	607.494	4496.985	33.83	236	1.34	10.52	295.22	0.357	0.0814
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD31	#3 B&P LINE, SHOTBLAST	42	46	607.594	4495.976	2.13	236	0.49	27.81	294.11	17.186	3.9238
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD32	1-3 PICKLE,ACID SCRUBBING	45	9999	607.494	4496.985	22.25	236	1.22	10.39	295.22	2.520	0.5754
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD33	HOT BAND NORMALIZER	46	59	607.289	4495.983	2.44	236	1.83	17.26	1394.11	0.559	0.1276
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD34	PLATE BURNERS/TORCH CUTRS	48	45	607.296	4496.083	12.19	236	1.22	25.39	294.11	1.299	0.2966
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD35	SLAB GRINDERS#15,16,18-22	50	9999	607.494	4496.985	19.81	236	1.65	8.75	295.22	11.545	2.6358
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD36	#3 DEPT. BOILER	54	39	606.690	4495.874	6.10	236	2.13	1.48	449.67	0.814	0.1858
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD37	MISC. SPACE HEATERS	55	9999	607.494	4496.985	15.24	236	0.82	7.86	295.22	1.558	0.3557
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD38	SLAG HANDLING	59	9999	607.494	4496.985	36.27	236	2.38	6.00	295.22	0.168	0.0383
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD39	MOLD SHOP COOLING TOWERS	64	9999	607.494	4496.985	9.14	236	4.33	9.05	295.22	7.325	1.6723
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD40	TANDEM MILL	67	37	607.595	4495.876	12.19	236	1.22	6.07	294.11	30.577	6.9810
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD41	UNITED MILL	68	64	607.595	4495.876	12.19	236	1.22	6.07	294.11	11.575	2.6428
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD42	Z MILL	69	40	606.595	4495.984	10.67	236	0.91	7.19	294.11	4.635	1.0581
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD43	STORAGE SILOS	71	9999	607.494	4496.985	20.73	236	0.79	13.29	295.22	0.840	0.1917
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL1	BOILER #1	4	4	606.738	4497.218	9.14	293	0.70	4.60	483.00	0.144	0.0329
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL2	PAVED ROADS	11	9999	606.842	4497.064	11.58	293	0.70	14.36	295.22	0.014	0.0033
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR1	HVAC UNITS	C01	5	570.101	4486.315	15.24	225	0.82	7.86	462.44	0.030	0.0068
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR2	VEHICLE TRAFFIC	F01	9999	570.101	4486.315	12.19	225	1.62	6.49	295.22	0.053	0.0121
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR3	VEHICLE TRAFFIC	F01	9999	570.101	4486.315	8.84	225	0.40	23.84	295.22	0.378	0.0862
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR4	VEHICLE TRAFFIC	P04	2	570.101	4486.315	7.62	225	0.30	0.03	310.78	0.021	0.0047
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR5	ABRASIVE BLASTING #2	P06	4	570.101	4486.315	0.00	225	0.09	0.00	303.00	0.060	0.0137
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR6	WELDING AND CUTTING	P6S	9999	570.101	4486.315	0.00	225	0.09	0.00	295.22	0.001	0.0002
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR7	WELDING AND CUTTING	PB6	9999	570.101	4486.315	3.05	225	0.20	4.00	295.22	0.036	0.0082
PA	Allegheny	AMG RESOURCES CORPORATION	AMG1	UNPAVED ROADS	5	9999	574.792	4484.784	20.42	221	0.64	6.68	295.22	0.004	0.0009
PA	Allegheny	AMG RESOURCES CORPORATION	AMG2	UNPAVED ROADS	5	9999	574.792	4484.784	3.96	221	0.03	5.58	295.22	0.065	0.0149
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW1	AGGREGATE GROUND HOPPER	1	9999	585.195	4476.080	9.45	224	0.85	7.04	295.22	0.263	0.0600
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW2	AGGREGATE #57 GRAVEL	2	9999	585.195	4476.080	9.14	224	0.91	7.77	295.22	1.017	0.2322
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW3	CEMENT SILO 1	15	3	585.195	4476.080	24.38	224	0.15	16.82	321.89	0.073	0.0167
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW4	CEMENT SILO 2	11	4	585.195	4476.080	17.37	224	0.41	0.03	533.00	0.209	0.0476
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW5	CEMENT SILO 3	12	5	585.195	4476.080	7.31	224	0.30	15.24	294.11	0.036	0.0081
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW6	BOILER	13	9999	585.195	4476.080	3.96	224	0.03	5.58	295.22	0.124	0.0282
PA	Allegheny	ARSENAL SCHOOL	ARSENL	BOILER	3	1	587.893	4480.375	36.57	234	1.83	0.03	533.00	0.043	0.0097
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN1	POLYESTER RESIN(PR) PLANT	2	7	577.693	4483.681	33.53	222	1.07	1.92	1060.78	0.225	0.0514
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN2	MAIN BOILER #25	3	8	577.995	4483.184	11.89	222	0.60	8.81	541.33	1.960	0.4475
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN3	BACKUP BOILER #26	5	10	577.693	4483.681	8.53	222	0.61	5.43	533.00	0.144	0.0328
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN4	HOT OIL HEATER #15	8	9999	577.693	4483.681	13.72	222	3.93	10.39	295.22	1.399	0.3194
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN5	COOLING TOWER #39	9	9999	577.693	4483.681	14.02	222	0.40	16.82	295.22	0.052	0.0118
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN6	ONSITE VEHICLES	9	9999	577.693	4483.681	8.84	222	0.46	19.23	295.22	0.055	0.0124
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN7	ONSITE VEHICLES	9	9999	577.693	4483.681	6.10	222	0.27	8.23	295.22	0.003	0.0006
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN8	ONSITE VEHICLES	9	9999	577.693	4483.681	0.00	222	0.00	0.00	295.22	0.004	0.0008
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN9	ROAD DUST	10	9999	577.693	4483.681	11.89	222	0.88	4.72	295.22	0.155	0.0353
PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL1	BOILERS #1-2	B2G	20	591.945	4479.024	42.97	284	2.10	0.21	505.22	0.236	0.0538

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PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL2	BAKING OVENS #2-6	P2G	1	591.980	4478.936	18.90	284	0.80	0.91	533.00	0.100	0.0228
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER1	BOILER #1,NG	B01	8	589.994	4500.883	15.24	232	0.82	9.54	533.00	0.017	0.0039
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER2	SPACE HEATERS,NG	B02	9999	589.994	4500.883	10.67	232	0.43	6.55	295.22	0.008	0.0019
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER3	ROADS AND VEHICLES	F01	9999	589.994	4500.883	38.71	232	1.43	7.19	295.22	0.041	0.0093
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER4	ROADS AND VEHICLES	F01	9999	589.994	4500.883	8.84	232	0.46	19.23	295.22	0.034	0.0077
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER5	OPEN HEAD -BAKE OVEN	P03	5	589.994	4500.883	13.72	232	0.67	10.09	294.11	0.010	0.0023
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER6	SHOT BLAST,OPEN HEAD	P04	6	589.994	4500.883	6.71	232	0.43	9.91	294.11	0.174	0.0397
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER7	DRUM BURNER,OPEN HEAD	P06	9	589.994	4500.883	10.36	232	3.54	2.99	416.33	2.897	0.6614
PA	Allegheny	BARBER SPRING	BARBR1	OUTER LINE	3	3	588.518	4481.958	16.76	230	1.22	0.03	294.11	0.549	0.1254
PA	Allegheny	BARBER SPRING	BARBR2	QUENCHING	4	9999	588.518	4481.958	13.41	230	1.07	12.22	295.22	0.285	0.0650
PA	Allegheny	BARBER SPRING	BARBR3	VEHICLES	31	9999	588.518	4481.958	10.67	230	0.40	11.13	295.22	0.033	0.0074
PA	Allegheny	BARBER SPRING	BARBR4	VEHICLES	32	9999	588.518	4481.958	8.84	230	0.46	19.23	295.22	0.048	0.0111
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE1	BOILERS 1-2	1	1	589.114	4478.935	59.13	248	2.70	7.71	565.22	1.460	0.3333
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE2	BOILERS 3-7	8	2	589.125	4477.325	78.02	248	3.40	5.91	426.89	11.215	2.5605
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE3	COAL HNDLG INDOOR BUNKERS	18	9999	589.108	4477.314	9.75	248	0.49	10.70	295.22	0.009	0.0020
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE4	ASH SILO, 150 TON CAPAC.	19	9999	589.108	4477.314	16.46	248	0.46	9.54	295.22	0.134	0.0306
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE5	EMERG #2 FUEL OIL GEN B	20	9999	589.108	4477.314	9.14	248	0.58	12.71	295.22	0.010	0.0022
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF1	RECEIVING	1	9999	569.684	4471.868	17.98	277	0.70	13.41	295.22	0.004	0.0008
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF2	PROCESSING	2	1	569.693	4471.879	6.10	277	2.13	0.09	296.89	0.023	0.0052
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF3	PROCESSING	2	2	569.693	4471.879	31.09	277	0.91	0.14	310.78	0.658	0.1503
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF4	PROCESSING	2	3	569.693	4471.879	32.61	277	0.30	5.29	296.89	0.042	0.0095
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF5	PROCESS STEAM	3	4	569.693	4471.879	12.19	277	0.08	5.18	633.00	0.057	0.0129
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF6	PROCESS STEAM	3	5	569.693	4471.879	7.62	277	0.41	11.00	633.00	0.057	0.0129
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS1	BOILER #1	B1G	1	593.493	4468.475	8.84	366	0.51	10.24	401.89	0.033	0.0076
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS2	BOILER #2	B2G	2	593.520	4468.331	9.14	366	0.70	6.49	433.00	0.036	0.0083
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS3	BOILER #3-4	B4G	4	593.493	4468.475	8.84	366	0.61	6.55	443.00	0.078	0.0178
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSD	DIESEL GENERATOR TESTING	DG1	6	593.493	4468.475	3.66	345	0.35	35.05	710.78	0.011	0.0025
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSR	ROADS & VEHICLES	SCG	9999	593.493	4468.475	15.85	345	0.67	7.10	295.22	0.212	0.0484
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSV	VAPOR HOT WATER HEATER-NG	VHG	5	593.520	4468.331	21.03	345	1.40	19.90	644.11	0.040	0.0090
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI1	ENCLOSED GROUND FLARE	1	1	561.496	4477.780	18.29	335	3.66	0.67	1144.11	8.171	1.8655
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI2	PORTABLE SCREENING PLANT	2	9999	561.497	4477.680	11.89	335	0.70	15.12	295.22	0.057	0.0130
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI3	OPERATION / CONSTRUCTION	5	9999	561.497	4477.680	4.27	335	0.06	11.64	295.22	10.785	2.4622
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI4	UNPAVED ROAD DUST EMISSIN	7	9999	561.497	4477.680	65.53	335	0.94	2.80	295.22	1.438	0.3283
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI5	DEDICATED DIESEL EMISSION	8	9999	561.497	4477.680	8.84	335	0.40	23.84	295.22	4.065	0.9282
PA	Allegheny	BOX USA	BOX1	SCRAP, CORRUGATOR	3	1	592.290	4483.381	15.24	228	4.57	0.03	294.11	5.847	1.3349
PA	Allegheny	BOX USA	BOX2	BOILERS	4	2	592.290	4483.381	45.11	228	2.44	0.49	435.78	0.135	0.0308
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP1	GARAGE BOILER-NATURAL GAS	11	9999	569.591	4486.476	10.67	226	0.43	6.55	295.22	0.006	0.0013
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP2	PLANT ROADS	12	9999	569.591	4486.476	36.88	226	1.19	5.58	295.22	0.002	0.0004
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP3	PLANT ROADS	12	9999	569.591	4486.476	12.19	226	1.62	6.49	295.22	0.001	0.0002
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR1	BRIQUETTING SYSTEM BOP	1	9999	597.433	4471.800	14.63	230	0.76	15.00	295.22	0.363	0.0828
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR2	BRIQUETTING BLAST FURNACE	2	1	597.433	4471.800	11.89	230	0.90	16.79	366.89	0.212	0.0484
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR3	BRIQUETTING BLAST FURNACE	2	9999	597.433	4471.800	24.08	230	2.04	21.61	295.22	0.015	0.0034
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR4	BRIQUETTING BLAST FURNACE	2	9999	597.433	4471.800	18.59	230	0.67	15.67	295.22	0.998	0.2279
PA	Allegheny	CALGON CARBON CORPORATION	CALG1	CARBON REACTIVATION	1	1	578.124	4482.975	24.08	220	1.10	18.29	491.33	0.306	0.0698
PA	Allegheny	CALGON CARBON CORPORATION	CALG2	CARBON REACTIVATION	1	5	577.997	4482.985	18.90	220	0.76	1.62	421.89	0.106	0.0243
PA	Allegheny	CALGON CARBON CORPORATION	CALG3	WHETLERITE - PLANT #1	2	3	577.997	4482.985	12.19	220	0.61	4.82	327.44	1.157	0.2642
PA	Allegheny	CALGON CARBON CORPORATION	CALG4	WHETLERITE - PLANT #1	2	4	577.997	4482.985	15.24	220	0.61	2.13	394.11	0.057	0.0131
PA	Allegheny	CALGON CARBON CORPORATION	CALG5	IMPREGNATED PRODUCTS	4	7	577.997	4482.985	12.19	220	0.41	3.66	394.11	0.041	0.0094
PA	Allegheny	CALGON CARBON CORPORATION	CALG6	IMPREGNATED PRODUCTS	4	10	578.115	4482.986	34.14	220	0.60	22.31	426.33	0.080	0.0182
PA	Allegheny	CALGON CARBON CORPORATION	CALG7	PELLETS	5	13	578.141	4482.975	18.90	220	0.80	11.31	1326.89	1.317	0.3006
PA	Allegheny	CALGON CARBON CORPORATION	CALG8	RAYMOND MILL PULVERIZER	7	18	577.997	4482.985	13.41	220	0.30	19.51	294.11	0.253	0.0577

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	CALGON CARBON CORPORATION	CALG9	COOPERITE	8	19	577.997	4482.985	21.94	220	0.76	13.72	345.78	0.106	0.0243
PA	Allegheny	CALGON CARBON CORPORATION	CALG10	SCREENING	11	22	577.997	4482.985	14.93	220	0.61	20.73	293.00	0.825	0.1883
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL1	STOCKPILES ROCK SALT	1	9999	579.492	4481.879	8.84	221	1.04	16.31	295.22	1.221	0.2788
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL2	ROCK SALT PROCESSING LINE	2	2	579.492	4481.879	12.19	221	0.30	9.05	293.00	0.025	0.0056
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL3	ROCK SALT PROCESSING LINE	2	9999	579.492	4481.879	3.96	221	0.03	5.58	295.22	0.062	0.0141
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL4	OFF-LOADING ROCK SALT	3	9999	579.492	4481.879	12.50	220	0.58	14.84	295.22	0.130	0.0297
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL5	OFF-LOADING ROCK SALT	3	9999	579.492	4481.879	8.53	221	1.01	15.97	295.22	0.008	0.0019
PA	Allegheny	CARRICK SCHOOL	CARRK	GAS FIRED HW BOILERS	3	1	585.795	4471.780	14.02	371	1.37	0.03	533.00	0.049	0.0111
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC1	KEELER BOILERS	1	1	586.985	4462.091	46.02	333	2.10	5.09	449.67	0.106	0.0242
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC2	ROAD SALT STOCKPILES	7	9999	586.891	4462.179	18.59	333	1.43	10.15	295.22	0.068	0.0155
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC3	PARTS WASHER & OTHER FUG.	8	9999	586.891	4462.179	8.84	333	0.40	23.84	295.22	0.147	0.0337
PA	Allegheny	CENTRAL FOOD KITCHEN	CENTF	GAS FIRED BOILERS	3	1	586.092	4476.279	14.63	222	0.84	0.03	533.00	0.101	0.0231
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB1	MCGILL ENCLOSED LFG FLARE	1	1	602.297	4473.674	9.14	305	3.38	7.38	1171.89	1.522	0.3474
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB2	COVER-EXCAV.&REPLACEMENT	6	9999	602.297	4473.674	21.94	305	1.62	15.39	295.22	3.910	0.8928
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB3	COVER-EXCAV.&REPLACEMENT	6	9999	602.297	4473.674	19.20	305	1.62	15.39	295.22	0.571	0.1303
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB4	ROADS	7	9999	602.297	4473.674	1.83	305	0.09	0.67	295.22	11.323	2.5852
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB5	VEHICLES	8	9999	602.297	4473.674	8.84	305	0.40	23.84	295.22	2.969	0.6779
PA	Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	CHILDR	BOILERS	4	1	587.596	4478.184	19.81	295	1.22	6.80	429.67	0.553	0.1263
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG1	ASPHALT PLANT	1	1	593.696	4458.275	4.88	230	1.50	5.61	394.11	0.001	0.0002
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG2	ASPHALT PLANT	1	9999	593.696	4458.275	10.36	230	1.25	14.69	295.22	1.229	0.2806
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG3	ASPHALT PLANT	1	9999	593.696	4458.275	10.06	230	0.98	13.96	295.22	0.017	0.0040
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG4	BARGE UNLOADING OPERATION	2	9999	593.696	4458.275	12.50	230	0.58	14.84	295.22	1.360	0.3105
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG5	BARGE UNLOADING OPERATION	2	9999	593.696	4458.275	11.58	230	0.61	13.17	295.22	1.120	0.2558
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG6	STG.PILE#4 HWY SALT #1	7	9999	593.696	4458.275	12.50	230	0.61	16.06	295.22	0.121	0.0276
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG7	PAVED ROADS	15	9999	593.696	4458.275	36.88	230	1.19	5.58	295.22	0.003	0.0006
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG8	DEDICATED VEHICLE EMISSIN	16	9999	593.696	4458.275	8.84	230	0.40	23.84	295.22	1.238	0.2827
PA	Allegheny	CONNELLEY SCHOOL	CONNLY	GAS FIRED BOILERS # 1-3	3	1	584.095	4478.777	28.35	286	2.80	0.03	533.00	0.098	0.0224
PA	Allegheny	CP INDUSTRIES	CP1	#3 AUTOMATIC GRINDER	P01	1	597.394	4465.582	7.62	226	0.58	4.48	283.00	0.681	0.1554
PA	Allegheny	CP INDUSTRIES	CP2	O.D. SHOT BLAST	P02	2	597.394	4465.582	7.62	226	0.58	4.48	294.11	0.700	0.1597
PA	Allegheny	CP INDUSTRIES	CP3	"A" FURNACE	P04	4	597.394	4465.582	19.81	226	1.13	3.14	810.78	0.034	0.0078
PA	Allegheny	CP INDUSTRIES	CP4	"B" FURNACE	P05	5	597.394	4465.582	19.81	226	1.13	4.45	1144.11	0.051	0.0117
PA	Allegheny	CP INDUSTRIES	CP5	HOLCROFT FURNACE	P06	6	597.394	4465.582	15.24	226	0.82	4.42	1144.11	0.036	0.0082
PA	Allegheny	CREIGHTON STATION	CREIGH	ENGINE #1-2	2	2	603.436	4493.164	6.10	226	0.46	0.03	588.56	0.245	0.0559
PA	Allegheny	DICE COMPRESSOR STATION	DICE1	NG COMPRESSOR #1-400 HP	0	1	609.895	4479.877	4.57	295	0.30	19.41	488.56	0.127	0.0290
PA	Allegheny	DICE COMPRESSOR STATION	DICE2	NG COMPRESSOR #2 - 600 HP	0	3	609.895	4479.877	4.57	295	0.30	29.11	488.56	0.467	0.1066
PA	Allegheny	DICE COMPRESSOR STATION	DICE3	NG HEATING BOILER	0B1	5	609.895	4479.877	5.49	295	0.30	0.03	533.00	0.008	0.0019
PA	Allegheny	DICE COMPRESSOR STATION	DICE4	INDIRECT PIPELINE HEATER	0C1	6	609.895	4479.877	5.49	295	0.51	0.03	533.00	0.002	0.0005
PA	Allegheny	DLM FOODS	DLM1	BOILER #1-2, COAL	1	1	585.673	4478.795	75.89	229	3.10	6.40	471.89	9.213	2.1034
PA	Allegheny	DLM FOODS	DLM2	BOILER #3, COAL	5	2	585.698	4478.817	75.89	229	3.10	3.41	394.11	2.382	0.5437
PA	Allegheny	DLM FOODS	DLM3	BULK STARCH SILO	18	9999	585.997	4478.576	22.25	229	2.26	10.39	295.22	4.059	0.9267
PA	Allegheny	DLM FOODS	DLM4	COAL UNLOADING	20	9999	585.997	4478.576	20.42	229	1.52	14.17	295.22	0.052	0.0118
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ1	EMERG. GENERATORS NAT.GAS	8	9999	585.391	4476.682	8.84	253	0.46	19.23	295.22	0.180	0.0411
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ2	EMERG. GENERATORS NAT.GAS	8	9999	585.391	4476.682	7.92	253	0.34	23.35	295.22	0.012	0.0026
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ3	JOHNSTON BOILER	B03	3	585.391	4476.682	24.99	253	1.83	0.96	455.22	0.185	0.0422
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ4	MISC. BOILERS	B04	9999	585.391	4476.682	19.81	253	1.13	8.20	295.22	0.033	0.0075
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ5	GAS TURBINE GENERATOR	T05	5	585.400	4476.649	46.33	253	1.07	2.82	449.67	1.517	0.3463
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA7	FUSION BOND WB-2 BH STACK	1	4	597.994	4464.580	4.88	227	0.38	21.49	294.11	0.429	0.0979
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA1	P03 EXTRUD'D POLY (XTEC)	2	8	597.994	4464.580	6.40	227	0.38	21.49	293.00	0.356	0.0812
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA2	P03 EXTRUD'D POLY (XTEC)	2	9	598.002	4464.558	2.13	227	0.15	0.05	449.67	0.002	0.0004
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA4	TRAVEL EMISSIONS	3	9999	597.994	4464.580	10.97	227	0.76	5.85	295.22	8.961	2.0460
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA3	TRAVEL EMISSIONS	3	9999	597.994	4464.580	3.96	227	0.03	5.58	295.22	0.427	0.0975

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PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA5	FUSION BOND PROCESS OVEN	6	7	597.994	4464.580	9.75	227	0.52	2.68	921.89	0.037	0.0084
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA6	FUSION BOND WB-1 BH STACK	7	9999	597.994	4464.580	7.31	227	0.58	12.59	295.22	0.389	0.0889
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA8	FUSION BOND DRYER OVEN	9	1	597.994	4464.580	9.75	227	0.52	4.27	921.89	0.024	0.0055
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST1	V-8 AREA	1	84	593.093	4457.579	4.88	225	0.41	28.80	293.00	3.595	0.8208
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST2	V-8 AREA	1	86	593.093	4457.579	4.88	225	0.41	28.80	633.56	3.595	0.8208
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST3	V-8 AREA	1	88	593.093	4457.579	10.06	225	0.69	2.13	616.33	0.031	0.0070
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST4	WATER-WHITE POLY AREA	3	16	593.093	4457.579	0.61	225	0.10	0.27	298.00	0.081	0.0184
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST5	WATER-WHITE POLY AREA	3	18	593.093	4457.579	8.53	225	0.08	6.22	283.00	0.016	0.0035
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST6	WATER-WHITE POLY AREA	3	19	593.093	4457.579	0.61	225	0.05	5.06	310.78	0.214	0.0488
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST7	WATER-WHITE POLY AREA	3	22	593.093	4457.579	6.71	225	0.05	1.77	298.00	0.372	0.0849
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST8	WATER-WHITE POLY AREA	3	294	593.093	4457.579	8.53	225	0.15	1.55	298.00	0.081	0.0184
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST9	BOILERS 1-2	7	142	593.093	4457.579	14.32	225	0.69	8.84	616.33	0.024	0.0055
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST10	BOILERS 3-4	9	143	593.093	4457.579	14.02	225	0.69	23.50	625.78	1.045	0.2387
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST11	NO. 5 TRANE BOILER, WDLF	11	144	593.101	4457.590	21.94	225	0.90	9.51	503.00	1.418	0.3238
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST12	MP-POLY	13	28	593.093	4457.579	9.14	225	0.15	1.55	298.00	0.054	0.0123
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST13	MP-POLY	13	30	593.093	4457.579	9.14	225	0.15	8.41	298.00	0.002	0.0004
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST14	MP-POLY	13	31	593.093	4457.579	12.19	225	0.15	1.31	298.00	1.404	0.3205
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST15	MP-POLY	13	33	593.093	4457.579	28.04	225	0.04	8.26	316.33	0.234	0.0534
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST16	C-5 HOT OIL HEATER, NG	15	56	593.093	4457.579	6.10	225	0.33	7.45	616.33	0.241	0.0551
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST17	C-5 PROCESS UNIT	17	42	593.093	4457.579	12.19	225	0.10	18.35	293.00	0.009	0.0019
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST18	C-5 PROCESS UNIT	17	43	593.093	4457.579	12.19	225	0.05	82.54	293.00	0.474	0.1083
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST19	C-5 PROCESS UNIT	17	49	593.093	4457.579	1.52	225	0.08	0.52	293.00	0.320	0.0730
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST20	C-5 PROCESS UNIT	17	89	593.093	4457.579	9.14	225	0.08	0.30	316.33	0.035	0.0079
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST21	C-5 FINISHED RESIN AREA	18	47	593.093	4457.579	9.14	225	0.08	0.94	285.78	0.019	0.0043
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST22	C-5 FINISHED RESIN AREA	18	163	593.093	4457.579	9.14	225	0.51	18.65	293.00	2.233	0.5099
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST23	#1 & #2 LTC UNIT	19	106	593.093	4457.579	6.10	225	0.30	16.76	810.78	0.148	0.0339
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST24	#1 & #2 LTC UNIT	19	107	593.093	4457.579	6.10	225	0.30	23.77	616.33	0.071	0.0163
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST25	#1 & #2 LTC UNIT	19	116	593.093	4457.579	9.75	225	0.49	8.63	293.00	2.842	0.6489
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST26	#3 LTC UNIT	20	98	593.093	4457.579	6.10	225	0.30	29.56	810.78	0.013	0.0029
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST27	PAVED AND UNPAVED ROADS	23	9999	593.093	4457.579	14.02	225	0.40	16.82	295.22	0.067	0.0153
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST28	PAVED AND UNPAVED ROADS	23	9999	593.093	4457.579	12.19	225	0.15	3.47	295.22	0.436	0.0996
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST29	VEHICLE EXHAUST	24	9999	593.093	4457.579	8.84	225	0.49	8.29	295.22	0.001	0.0003
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST30	THERMAL POLY HEATER NG	26	292	593.093	4457.579	7.62	225	0.46	33.22	616.33	0.154	0.0352
PA	Allegheny	EPIC METALS CORPORATION	EPIC	PAINTING OPERATION	1	4	595.392	4473.383	7.62	235	0.53	19.29	596.89	0.044	0.0100
PA	Allegheny	EXXONMOBIL NEVILLE ISLAND MARKETING TERM	EXXNEV	VEHICLE EMISSIONS	16	9999	573.894	4483.876	3.96	222	0.03	5.58	295.22	0.030	0.0069
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH1	BOILERS	1	1	595.692	4485.777	6.10	298	2.13	0.03	533.00	0.102	0.0233
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH2	ROADS	2	9999	595.692	4485.777	36.88	298	1.19	5.58	295.22	0.002	0.0004
PA	Allegheny	GALVTECH	GALVT1	NATURAL GAS COMBUSTION	1	1	590.590	4471.881	22.86	228	1.52	4.48	533.00	2.735	0.6244
PA	Allegheny	GALVTECH	GALVT2	NATURAL GAS COMBUSTION	1	3	590.591	4471.781	18.29	228	0.08	30.02	366.33	0.082	0.0188
PA	Allegheny	GALVTECH	GALVT3	MISCELLANEOUS	4	2	590.590	4471.881	12.50	228	0.58	7.38	373.56	0.076	0.0173
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT1	BULK MATERIAL UNLOADING	1	501	576.192	4468.779	20.73	244	1.10	15.88	432.44	1.927	0.4400
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT2	SIMPLEX GLASS PRODUCTION	3	9999	576.693	4468.784	27.13	244	1.07	12.53	295.22	1.367	0.3122
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT3	GAS ELECTRIC GLASS PROD.	8	507	576.192	4468.779	27.13	244	1.07	12.53	494.11	0.395	0.0901
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT4	TUBE DRAWING PROCESS GRP	9	9999	576.693	4468.784	16.15	244	0.91	10.30	295.22	0.112	0.0256
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT5	BOILER NO. 2	19	17	576.693	4468.784	17.07	244	0.20	9.11	810.78	0.016	0.0036
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT6	BOILER NO. 3	20	16	576.693	4468.784	12.80	244	0.34	0.03	310.78	0.011	0.0024
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT7	HOT WATER HEATERS	21	41	576.192	4468.779	11.28	244	0.46	14.26	473.00	0.014	0.0032
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT8	SPACE HEATERS	22	519	576.693	4468.784	10.67	244	0.43	6.55	383.00	0.003	0.0006
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT9	SPACE HEATERS	22	519	576.693	4468.784	10.06	244	0.46	9.24	390.78	0.003	0.0008
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT10	CULLET STORAGE PILE	27	512	576.192	4468.779	10.06	244	0.85	1.10	309.67	0.013	0.0029
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT11	CULLET STORAGE PILE	27	9999	576.693	4468.784	10.06	244	0.85	1.10	295.22	0.002	0.0004

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP1	YOUNG BROS BAKE-OUT OVEN	9	9	590.496	4467.683	7.62	357	0.30	23.58	533.00	0.004	0.0009
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP2	DESPATCH BAKE OVEN	10	10	590.496	4467.683	2.44	357	0.23	23.71	533.00	0.001	0.0002
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP3	WELDING	11	11	590.496	4467.683	11.89	357	0.88	0.52	299.67	0.275	0.0627
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP4	BABBITT	13	13	590.496	4467.683	11.28	357	0.52	9.45	310.78	0.036	0.0081
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP5	SPACE HEATERS	14	14	589.490	4467.982	10.67	357	0.43	6.55	383.00	0.023	0.0052
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP6	ABRASIVE BLAST	15	15	589.490	4467.982	7.92	357	0.61	15.24	299.67	0.117	0.0266
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP7	FUGITIVES CLEANING/NDT	17	9999	589.490	4467.982	13.72	357	0.49	5.03	295.22	0.008	0.0018
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM1	BOILER #1	2	2	593.050	4466.504	14.02	274	0.70	16.79	498.00	0.168	0.0384
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM2	OIL FIRED SPACE HEATERS	5	5	593.195	4466.484	6.10	274	0.24	0.03	394.11	0.350	0.0799
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM3	DIE BUILDING HEATERS - 5	6	6	593.195	4466.484	12.19	274	0.30	0.03	366.33	0.025	0.0057
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM4	PACKAGE BOILER HOT WATER	7	7	593.195	4466.484	1.52	274	0.30	0.03	477.44	0.009	0.0020
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM5	HIGH TANK BOILER	8	8	593.195	4466.484	6.10	274	0.24	0.03	477.44	0.001	0.0002
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM6	RACK REPAIR HEATERS - 4	9	9	593.195	4466.484	4.57	274	0.24	4.57	366.33	0.002	0.0004
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM7	WELLNESS CENTER HVAC UNIT	11	11	593.195	4466.484	15.85	274	0.67	7.10	366.33	0.010	0.0022
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM8	VEHICLES AND ROADS	17	9999	593.291	4465.575	17.07	274	0.82	8.02	295.22	0.236	0.0539
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM9	VEHICLES AND ROADS	17	9999	593.291	4465.575	8.84	274	0.46	19.23	295.22	0.224	0.0512
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM10	VEHICLES AND ROADS	17	9999	593.291	4465.575	6.10	274	0.27	8.23	295.22	0.009	0.0021
PA	Allegheny	GENERIC UNIT	GENRC1	GENERIC UNIT	GGT42	41	582.517	4476.583	18.90	243	3.05	18.68	580.22	0.480	0.1096
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN1	UNIT HEATERS (42)	B01	9999	588.792	4486.080	15.85	229	0.67	7.10	295.22	0.317	0.0723
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN2	CULLET STORAGE PILE	F02	9999	588.792	4486.080	20.73	229	1.10	15.88	295.22	0.182	0.0416
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN3	ROADS AND VEHICLES	F03	9999	588.792	4486.080	36.88	229	1.19	5.58	295.22	0.044	0.0101
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN4	ROADS AND VEHICLES	F03	9999	588.792	4486.080	8.84	229	0.46	19.23	295.22	0.004	0.0009
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN5	MELTING FURNACE #1-2	P02	2	588.792	4486.080	41.15	229	1.50	10.30	859.11	39.501	9.0184
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN6	MELTING FURNACE #4	P04	4	588.800	4486.058	19.51	229	1.42	8.11	492.44	12.376	2.8255
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN7	HOT END SURFACE TREATS	P12	12	588.893	4486.082	16.15	229	0.70	12.77	374.67	8.847	2.0199
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN8	ANNEALING LEHRS	P16	12	588.893	4486.082	42.37	229	0.40	2.83	364.67	0.232	0.0530
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN9	MATERIALS HANDLING	P20	7	588.792	4486.080	12.19	229	0.59	24.54	293.00	11.460	2.6165
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD1	RAW MATERIAL RECEIVING	1	9999	592.194	4456.680	20.73	225	1.10	15.88	295.22	2.300	0.5250
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD2	GLASS MELTING AND FORMING	2	1	592.194	4456.680	24.99	225	2.70	25.51	535.22	10.629	2.4268
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD3	GLASS MELTING AND FORMING	2	2	592.194	4456.680	30.48	225	1.98	22.10	554.67	14.344	3.2748
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD4	CULLET PROCESSING	3	9999	592.194	4456.680	17.07	225	1.04	15.91	295.22	1.019	0.2327
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD5	SPACE/WATER HEATERS, NG	4	9999	592.194	4456.680	15.24	225	0.82	7.86	295.22	0.063	0.0145
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD6	FORK TRUCK, PROPANE	9	9999	592.194	4456.680	8.84	225	0.49	8.29	295.22	0.003	0.0006
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD7	SITE DEDICATED VEHICLES	12	9999	592.194	4456.680	10.36	225	0.58	33.62	295.22	0.147	0.0336
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV1	SMALL COMBUSTION, VEHICLES	20	9999	588.250	4477.426	18.90	280	0.85	7.32	295.22	0.003	0.0006
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV2	VEHICLE EMISSIONS	34	9999	588.250	4477.426	8.84	280	0.49	8.29	295.22	0.002	0.0004
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV3	VEHICLE EMISSIONS	34	9999	588.250	4477.426	8.23	280	2.62	2.80	295.22	0.075	0.0172
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL1	MAIN SCREENING PLANT	3	9999	588.250	4477.426	8.84	280	1.04	16.79	295.22	0.153	0.0349
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL2	MAIN SCREENING PLANT	3	9999	588.250	4477.426	8.23	280	1.01	16.15	295.22	0.122	0.0279
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL3	1B-FINES SCREENING PLANT	4	9999	588.250	4477.426	8.84	280	1.07	16.86	295.22	0.015	0.0035
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL4	VEHICLE EMISSIONS	6	9999	588.250	4477.426	8.84	280	0.46	19.23	295.22	1.228	0.2804
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL5	ROADWAY EMISSIONS	7	9999	588.250	4477.426	8.53	280	1.01	15.97	295.22	0.077	0.0176
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL6	MAINT GARAGE HEATING SYS	8	9999	588.250	4477.426	11.28	280	0.46	14.26	295.22	0.001	0.0001
PA	Allegheny	HOECHSTETTER PRINTING	HOECHS	HEATSET WEB PRINTING	1	1	593.823	4478.026	15.54	282	0.24	12.66	435.78	0.022	0.0050
PA	Allegheny	HUSSEY COPPER LTD.	HUSS1	F-1 REVERBERATORY FURNACE	1	1	565.792	4491.682	13.72	216	2.13	15.30	408.56	21.881	4.9956
PA	Allegheny	HUSSEY COPPER LTD.	HUSS2	F-7A/B INDUCTION FURNACE	3	2	565.792	4491.682	11.58	216	0.91	8.63	316.33	0.243	0.0554
PA	Allegheny	HUSSEY COPPER LTD.	HUSS3	SC-1 SCALPER	5	4	565.894	4491.682	19.20	216	0.61	19.41	294.11	0.078	0.0178
PA	Allegheny	HUSSEY COPPER LTD.	HUSS4	AF-21 CONTINOUS ANNEALER	6	5	565.895	4491.583	13.72	216	0.41	3.20	755.22	0.083	0.0189
PA	Allegheny	HUSSEY COPPER LTD.	HUSS5	AF-31 CONTINOUS ANNEALER	7	6	565.894	4491.682	18.29	216	0.36	3.66	699.67	0.083	0.0189
PA	Allegheny	HUSSEY COPPER LTD.	HUSS6	F-11 REHEAT FURNACE	8	7	565.791	4491.781	3.66	216	0.85	0.55	1088.56	0.387	0.0884
PA	Allegheny	HUSSEY COPPER LTD.	HUSS7	AF-15 PLATE ANNEALER	9	9	565.894	4491.682	2.44	216	0.85	0.04	810.78	0.002	0.0005

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	HUSSEY COPPER LTD.	HUSS8	F-16 BELL FURNACE	12	11	565.894	4491.682	3.05	216	0.18	5.49	533.00	0.076	0.0174
PA	Allegheny	HUSSEY COPPER LTD.	HUSS9	F-25 BOX FURNACE	14	13	565.894	4491.682	3.05	216	0.15	7.92	533.00	0.076	0.0174
PA	Allegheny	HUSSEY COPPER LTD.	HUSS10	LC-1 LEAD COATING/DROSSNG	17	9999	565.792	4491.682	40.23	216	2.53	10.73	295.22	0.007	0.0016
PA	Allegheny	HUSSEY COPPER LTD.	HUSS11	COPPER SCRAP HAND/BAILING	21	9999	565.792	4491.682	14.32	216	1.10	12.89	295.22	1.593	0.3638
PA	Allegheny	HUSSEY COPPER LTD.	HUSS12	WEST BOILER	23	14	565.902	4491.738	12.50	216	0.61	0.52	394.11	0.050	0.0115
PA	Allegheny	HUSSEY COPPER LTD.	HUSS13	MISC, NG USAGE	28	9999	565.792	4491.682	15.24	216	0.82	7.86	295.22	0.145	0.0332
PA	Allegheny	HUSSEY COPPER LTD.	HUSS14	BAGHOUSE DUST CAPTURED	31	9999	565.792	4491.682	11.58	216	0.76	14.08	295.22	0.704	0.1607
PA	Allegheny	HUSSEY COPPER LTD.	HUSS15	UNPAVED PLANT ROADWAYS	32	9999	565.792	4491.682	65.53	216	0.94	2.80	295.22	0.042	0.0095
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA1	HMA AGGREGATE PROCESSING	1	1	595.189	4497.284	10.67	324	1.22	16.18	421.89	0.267	0.0611
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA2	HMA AGGREGATE PROCESSING	1	9999	595.189	4497.284	10.36	324	1.25	14.69	295.22	1.922	0.4388
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA3	ASPHALT TANK HEATER UNITS	2	3	595.189	4497.284	3.66	324	0.61	6.47	477.44	0.011	0.0024
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA4	AGG HANDLING SAND	3	9999	595.189	4497.284	9.75	324	1.19	14.20	295.22	5.766	1.3163
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA5	ONSITE VEHICLE/ HIGH LIFT	9	9999	595.189	4497.284	20.42	324	0.64	6.68	295.22	0.192	0.0439
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA6	ONSITE VEHICLE/ HIGH LIFT	9	9999	595.189	4497.284	3.96	324	0.03	5.58	295.22	0.080	0.0182
PA	Allegheny	IDL INCORPORATED	IDL1	UNPAVED PARKING LOTS	8	9999	604.793	4479.682	8.23	347	0.55	9.05	295.22	0.064	0.0145
PA	Allegheny	IDL INCORPORATED	IDL2	MISC NATURAL GAS COMBUSTN	11	9999	604.793	4479.682	16.15	347	0.91	10.30	295.22	0.028	0.0063
PA	Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	JEFFHS	BOILERS	6	3	578.396	4463.384	29.26	366	3.28	0.03	533.00	0.292	0.0666
PA	Allegheny	KELLY RUN SANITATION	KELRN1	DEDICATED DIESEL VEHICLES	1	9999	595.990	4456.483	8.84	315	0.40	23.84	295.22	0.819	0.1870
PA	Allegheny	KELLY RUN SANITATION	KELRN2	BORROW/COVER ACTIVITY	3	9999	595.990	4456.483	21.94	315	1.62	15.39	295.22	0.498	0.1138
PA	Allegheny	KELLY RUN SANITATION	KELRN3	BORROW/COVER ACTIVITY	3	9999	595.990	4456.483	21.33	315	1.28	12.37	295.22	4.825	1.1017
PA	Allegheny	KELLY RUN SANITATION	KELRN4	ENCLOSED GROUND FLARE #1	5	2	595.093	4456.083	9.45	315	2.03	0.61	1160.78	0.567	0.1294
PA	Allegheny	KELLY RUN SANITATION	KELRN5	BLASTING	10	9999	595.990	4456.483	8.84	315	0.98	15.21	295.22	0.628	0.1433
PA	Allegheny	KELLY RUN SANITATION	KELRN6	UNPAVED ROADS	12	9999	595.990	4456.483	1.83	315	0.09	0.67	295.22	1.895	0.4326
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI1	PROCESS FURNACE	18	9999	596.191	4491.779	21.33	245	1.13	9.05	295.22	0.012	0.0028
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI2	BOILER NATURAL GAS	103	1	596.191	4491.779	5.49	245	0.51	3.84	533.00	0.012	0.0027
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI3	PROCESS FURNACE NG	104	2	596.191	4491.779	3.05	245	0.30	50.02	589.11	0.462	0.1055
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL1	HOPKINS 800 HEATER	1	1	595.091	4467.684	3.66	223	0.76	2.07	1144.11	1.248	0.2849
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL2	SELLERS HEATER	3	3	595.091	4467.684	19.81	223	1.13	8.20	473.56	0.018	0.0041
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL3	THERMTECH VAPOR INCIN.	8	9999	595.091	4467.684	19.81	223	1.13	8.20	295.22	0.015	0.0034
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL1	POT FURNACES	3	1	594.292	4475.179	36.57	280	2.44	20.22	505.22	0.326	0.0745
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL2	GLASS FORMING	4	9999	594.292	4475.179	16.76	280	0.85	12.71	295.22	0.115	0.0263
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL3	TEMPERING	5	2	594.292	4475.179	12.19	280	0.10	0.03	366.33	0.009	0.0019
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL4	OFFICE HTG FURNACES	11	6	594.292	4475.179	12.19	280	0.30	0.37	394.11	0.006	0.0013
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL5	PLANT SPACE HEATERS	12	9999	594.292	4475.179	15.85	280	0.67	7.10	295.22	0.021	0.0047
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR1	ROD PITCH MANUFACTURING	2	3	594.697	4462.584	15.24	222	0.30	3.05	324.67	0.344	0.0784
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR2	ROD PITCH MANUFACTURING	2	9999	594.697	4462.584	14.93	222	0.61	8.02	295.22	0.880	0.2010
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR3	PRIMARY FLASH HEATER	5	1	594.697	4462.584	32.00	222	2.06	8.23	921.89	0.815	0.1860
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR4	PRILL HOT OIL HEATER	6	2	594.697	4462.584	12.19	222	0.61	1.25	921.89	0.076	0.0173
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR5	TRANSPORTATION	9	9999	594.697	4462.584	14.02	222	0.40	16.82	295.22	0.032	0.0072
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR6	TRANSPORTATION	9	9999	594.697	4462.584	11.58	222	0.70	4.60	295.22	0.849	0.1938
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR7	TRANSPORTATION	9	9999	594.697	4462.584	8.84	222	0.40	23.84	295.22	0.260	0.0593
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR8	LOADING	11	9999	594.697	4462.584	10.36	222	0.85	1.34	295.22	5.394	1.2314
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR9	COOLING TOWER	28	9999	594.697	4462.584	17.37	222	4.54	10.55	295.22	0.894	0.2040
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM1	CEMENT BULK LOADING	18	9	578.295	4482.777	0.61	223	0.30	27.19	294.11	0.115	0.0261
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM2	BULK TRUCK LOADING	31	17	578.295	4482.777	0.61	223	0.30	19.63	294.11	0.203	0.0463
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM3	CEMENT UNLOADING FRM BRG	54	36	578.295	4482.777	0.61	223	0.30	0.61	294.11	0.393	0.0896
PA	Allegheny	LANGENFELDER & SON, INC.	LANG1	A SCRAP STORAGE & HANDLNG	1	9999	597.692	4472.081	8.84	242	1.04	16.31	295.22	0.338	0.0771
PA	Allegheny	LANGENFELDER & SON, INC.	LANG3	SCRAP CUTTING AND LANCING	3	9999	597.692	4472.081	23.16	242	1.83	9.69	295.22	0.100	0.0228
PA	Allegheny	LANGENFELDER & SON, INC.	LANG2	SLAG PROCESSING	2	9999	597.692	4472.081	8.53	242	1.01	16.58	295.22	0.204	0.0467
PA	Allegheny	LANGENFELDER & SON, INC.	LANG4	SLAG PROCESSING	6	9999	597.692	4472.081	8.84	242	1.04	16.58	295.22	1.634	0.3731
PA	Allegheny	LANGENFELDER & SON, INC.	LANG5	SLAG PROCESSING	6	9999	597.692	4472.081	8.84	242	1.04	16.79	295.22	1.634	0.3731

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PA	Allegheny	LANGENFELDER & SON, INC.	LANG6	SLAG PROCESSING	6	9999	597.692	4472.081	8.23	242	1.01	16.15	295.22	1.007	0.2299
PA	Allegheny	LANGENFELDER & SON, INC.	LANG7	UNPAVED ROADS	8	9999	597.692	4472.081	8.53	242	1.01	15.97	295.22	0.296	0.0677
PA	Allegheny	LAUREL MOUNTAIN WHIRLPOOLS, INC.	LAURL	PROCESS & SPACE HEATING	1	1	600.496	4473.783	28.95	295	0.91	18.68	294.11	0.014	0.0033
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL1	SAWING-DUST COLLECTOR	5	9999	593.490	4465.977	9.45	262	0.52	9.78	295.22	0.029	0.0066
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL2	BOILER, NG	9	6	593.490	4465.977	6.10	262	0.46	1.43	410.78	0.023	0.0052
PA	Allegheny	LIBERTY-PITTSBURGH SYSTEMS, INC.	LPSYS	NATURAL GAS USAGE	5	9999	575.167	4484.610	15.24	218	0.82	7.86	295.22	0.003	0.0008
PA	Allegheny	LOZIER CORPORATION	LOZR1	FACILITY PROCESS, HEATING	2	9999	584.889	4470.082	23.77	298	1.10	7.59	295.22	0.039	0.0090
PA	Allegheny	LOZIER CORPORATION	LOZR2	FACILITY HEATING NG-USUAG	3	9999	584.889	4470.082	10.67	298	0.43	6.55	295.22	0.012	0.0028
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH1	ASPHALT PLANT	1	1	594.749	4467.158	4.88	223	0.80	27.70	380.22	1.242	0.2835
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH2	HOT OIL HEATER	2	2	594.992	4467.483	2.44	223	0.30	3.44	477.44	0.001	0.0002
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH3	GENERATOR	3	3	594.992	4467.483	4.27	223	0.20	0.03	533.00	0.437	0.0997
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH4	VEHICLE FUGITIVES	4	9999	594.992	4467.483	20.42	223	0.64	6.68	295.22	0.112	0.0256
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH5	VEHICLE FUGITIVES	4	9999	594.992	4467.483	8.84	223	0.40	23.84	295.22	0.116	0.0264
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH6	STOCKPILE NATURAL SAND	8	9999	594.992	4467.483	9.75	223	1.19	14.20	295.22	3.105	0.7088
PA	Allegheny	MAYVIEW STATE HOSPITAL	MAYVW	BOILER PLANT	12	2	575.754	4464.212	21.03	274	1.50	2.50	505.22	0.626	0.1430
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR1	STEEL MAKING	1	2	587.795	4481.484	7.62	223	0.84	21.19	421.89	0.303	0.0692
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR2	STEEL MAKING	1	10	587.694	4481.382	8.53	223	1.42	11.82	408.00	1.305	0.2979
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR3	STEEL MAKING	1	9999	587.796	4481.384	14.63	223	1.98	14.78	295.22	1.516	0.3462
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR4	STEEL MAKING	1	9999	587.796	4481.384	12.50	223	0.70	9.54	295.22	3.460	0.7899
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR5	STEEL MAKING	1	9999	587.796	4481.384	11.89	223	1.13	12.19	295.22	3.460	0.7899
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR6	STEEL MAKING	1	9999	587.796	4481.384	10.97	223	2.07	9.85	295.22	0.544	0.1241
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR7	MOLD AND SAND HANDLING	2	3	587.694	4481.382	8.53	223	0.99	28.57	293.00	5.861	1.3382
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR8	MOLD AND SAND HANDLING	2	11	587.696	4481.283	9.45	223	1.52	21.01	293.00	24.846	5.6726
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR9	MOLD AND SAND HANDLING	2	9999	587.796	4481.384	14.02	223	1.25	18.14	295.22	5.426	1.2388
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR10	MOLD AND SAND HANDLING	2	9999	587.796	4481.384	12.50	223	0.82	17.13	295.22	9.178	2.0954
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR11	CLEANING AND FINISHING	3	4	587.796	4481.384	10.06	223	1.16	17.03	293.00	4.957	1.1316
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR12	CLEANING AND FINISHING	3	9	587.796	4481.384	12.80	223	1.51	9.02	293.00	1.188	0.2712
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR13	CLEANING AND FINISHING	3	9999	587.796	4481.384	14.02	223	1.16	14.42	295.22	0.112	0.0257
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR14	CLEANING AND FINISHING	3	9999	587.796	4481.384	10.67	223	0.98	19.57	295.22	1.056	0.2411
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR15	HEAT TREATING FURNACES	5	9999	587.796	4481.384	15.85	223	0.67	7.10	295.22	0.323	0.0737
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR16	LANCE TABLE	7	9999	587.796	4481.384	10.67	223	0.43	6.55	295.22	0.014	0.0032
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR17	ONSITE VEHICLE TRAFFIC	10	9999	587.796	4481.384	13.41	223	1.07	12.22	295.22	0.199	0.0453
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF1	AXLE FORGE	1	3	579.591	4481.281	24.38	221	1.22	5.67	477.44	0.258	0.0589
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF2	AXLE FORGE	1	9999	579.594	4480.981	11.89	221	0.52	7.53	295.22	0.172	0.0393
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF3	WHEEL FORGE	2	1	579.694	4481.182	6.10	221	1.52	1.62	644.11	0.244	0.0557
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY1	BOILER 1,4	1	1	585.994	4476.678	29.26	256	1.22	0.03	394.11	0.197	0.0450
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY2	BOILER 2-3	7	9999	585.994	4476.678	19.81	256	1.13	8.20	295.22	0.381	0.0869
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY3	COOLING TOWERS	11	9999	585.994	4476.678	9.14	256	4.33	9.05	295.22	3.491	0.7969
PA	Allegheny	METALTECH	METAL1	NATURAL GAS COMBUSTION	1	1	587.393	4476.683	20.12	225	1.07	4.24	449.67	1.307	0.2985
PA	Allegheny	METALTECH	METAL2	NATURAL GAS COMBUSTION	1	2	587.393	4476.683	19.81	225	1.13	8.20	288.56	0.002	0.0004
PA	Allegheny	METALTECH	METAL3	NATURAL GAS COMBUSTION	1	3	587.392	4476.783	1.52	225	0.30	3.23	366.33	0.076	0.0174
PA	Allegheny	METALTECH	METAL4	MISCELLANEOUS	4	2	587.393	4476.683	12.50	225	0.58	7.38	288.56	0.403	0.0921
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN1	SCREENS	2	1	595.599	4462.428	24.08	225	1.46	7.92	331.33	0.445	0.1016
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN2	STORAGE PILES	4	1	595.599	4462.428	10.36	225	0.55	5.49	338.00	3.333	0.7608
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN3	ROAD EMISSIONS	5	1	595.599	4462.428	40.23	225	1.65	4.97	416.33	0.062	0.0142
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN4	EQUIPMENT FUEL USAGE	6	1	595.599	4462.428	12.80	225	0.58	5.85	380.22	0.001	0.0003
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV1	SLANT FIN BOILER #2 FO	13	2	569.898	4486.279	2.13	221	0.15	0.03	533.00	0.001	0.0001
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV2	OFFICE HEATER NATURAL GAS	18	9999	569.292	4486.684	42.37	221	0.40	2.83	295.22	0.012	0.0027
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB1	BOILERS	1	1	580.595	4469.879	18.29	354	0.91	0.03	394.11	0.166	0.0379
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB2	VEHICLE TRAFFIC	2	9999	580.595	4469.901	36.88	354	1.19	5.58	295.22	0.003	0.0006
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH1	HIGH PRESSURE BOILERS	B02	4	595.495	4459.274	7.62	232	0.41	13.41	560.78	0.082	0.0187

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH2	LOW PRESSURE BOILER NG	B03	5	595.495	4459.274	7.62	232	0.30	6.40	505.22	0.002	0.0005
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH3	FORK TRUCK-CLARK #2 FUEL	F01	9999	595.495	4459.274	3.96	232	0.03	5.58	295.22	0.012	0.0028
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH4	FORK TRUCK-CLARK #2 FUEL	F01	9999	595.495	4459.274	0.00	232	0.00	0.00	295.22	0.002	0.0005
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH5	GRIT BLASTING	GB1	9999	595.495	4459.274	3.05	232	0.20	4.00	295.22	0.012	0.0026
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL1	500# COMBUSTER	1	1	586.890	4462.234	24.08	302	0.20	31.09	410.78	0.014	0.0031
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL2	EXP. COAL COMBUSTER -CERF	2	2	586.894	4461.879	15.24	302	0.10	5.94	338.56	0.001	0.0002
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL3	AJAX BOILER - BLDG 922	5	5	586.894	4461.879	15.85	320	0.81	2.59	394.11	0.003	0.0007
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL4	RAYPAK BOILERS - BLDG 921	6	6	586.894	4461.879	8.53	320	0.61	2.22	394.11	0.001	0.0002
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL5	3 KEWANEE BLRS - BLDG 84	9	9	586.894	4461.879	21.33	302	0.61	2.38	499.67	0.004	0.0010
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL6	FUGITIVES	10	9999	586.894	4461.879	155.44	302	4.45	18.90	295.22	0.899	0.2053
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC1	NO. 3 STILL PROCESS HEATR	2	2	576.394	4483.878	9.14	221	0.46	6.31	599.67	0.041	0.0093
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC2	#4 STILL PROCESS HEATER	4	4	576.394	4483.878	17.68	221	1.31	1.83	599.67	0.135	0.0309
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC3	#15 STILL PROCESS HTR. NG	6	6	576.394	4483.878	21.33	221	0.85	3.29	689.67	0.038	0.0087
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC4	#16 STILL PROCESS HTR. NG	9	8	576.394	4483.878	17.37	221	0.69	3.69	643.00	0.037	0.0085
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC5	#18 STILL PROCESS HTR. NG	12	10	576.394	4483.878	13.41	221	0.61	6.16	614.11	0.044	0.0100
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC6	#19 STILL PROCESS HTR. NG	15	12	576.394	4483.878	8.23	221	0.76	3.93	611.33	0.050	0.0115
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC7	UNIT 21 PROCESS	18	55	576.394	4483.878	13.72	221	0.30	0.01	294.11	0.001	0.0002
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC8	UNIT C-5 PROCESS HTR., NG	22	18	576.394	4483.878	10.97	221	0.53	4.26	602.44	0.050	0.0114
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC11	#2 PKG. CENTER HEATER NG	24	23	576.394	4483.878	11.28	221	0.76	2.59	602.44	0.031	0.0070
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC9	NO. 2 PACKAGING CENTER	25	24	576.394	4483.878	4.57	221	0.61	7.83	293.00	0.149	0.0339
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC12	#3 PACKAGING CTR. HTR. NG	26	27	576.394	4483.878	15.54	221	0.61	2.44	603.00	0.064	0.0146
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC10	NO. 2 PACKAGING CENTER	28	41	576.394	4483.878	3.66	221	0.29	22.10	293.00	0.254	0.0579
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC13	#5 PACKAGINC CTR. HTR. NG	29	29	576.394	4483.878	7.31	221	0.46	4.30	610.78	0.071	0.0161
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC14	NO. 8 BOILER	33	34	576.394	4483.878	16.46	221	1.22	0.58	544.11	0.067	0.0153
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC15	NO. 6 BOILER	35	35	576.394	4483.878	10.67	221	0.91	8.35	451.89	0.914	0.2086
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC16	NO. 7 BOILER	37	36	576.394	4483.878	12.19	221	1.22	7.89	600.22	1.552	0.3543
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC17	VEHICLE EXHAUST	39	9999	576.394	4483.878	14.02	221	0.40	16.82	295.22	0.063	0.0144
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC18	VEHICLE EXHAUST	39	9999	576.394	4483.878	8.84	221	0.40	23.84	295.22	0.283	0.0647
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC19	HYDROLASER/WATER BLASTING	66	9999	576.394	4483.878	15.24	221	0.64	11.09	295.22	1.161	0.2650
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC20	UNIT 43 OXIDIZER NG	72	16	576.394	4483.878	7.01	221	0.61	3.23	599.67	0.175	0.0400
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM1	RAW MATERIAL UNLOADING	1	9999	566.974	4490.216	19.51	212	1.28	10.45	295.22	1.331	0.3039
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM2	MATERIAL CONVEYORS	2	9999	566.974	4490.216	15.85	212	1.25	10.18	295.22	1.210	0.2762
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM3	BALL MILL	3	1	566.974	4490.216	14.02	212	0.38	18.29	294.11	0.103	0.0235
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM4	MECHANICAL SEPARATOR	4	9999	566.974	4490.216	15.54	212	1.25	12.28	295.22	0.040	0.0091
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM5	FINISHED PRODUCT TRANSFER	5	9999	566.974	4490.216	19.81	212	1.43	12.89	295.22	0.583	0.1330
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM6	TRUCK LOADING	6	9999	566.974	4490.216	18.29	212	0.94	11.22	295.22	0.162	0.0369
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM7	VEHICLE EMISSIONS ON SITE	7	9999	566.974	4490.216	0.00	212	0.00	0.00	295.22	0.077	0.0176
PA	Allegheny	NEXTECH	NEXT1	NATURAL GAS COMBUSTION	1	1	599.095	4473.176	25.60	236	1.46	1.98	449.67	0.941	0.2148
PA	Allegheny	NEXTECH	NEXT2	NATURAL GAS COMBUSTION	1	2	599.095	4473.176	33.83	236	1.34	10.52	473.00	0.042	0.0096
PA	Allegheny	NEXTECH	NEXT3	NATURAL GAS COMBUSTION	1	3	599.095	4473.176	13.72	236	0.55	2.19	366.33	0.004	0.0010
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG1	BOILER NO. 1, NATURAL GAS	1	1	584.264	4478.101	15.24	235	0.91	24.14	591.33	0.322	0.0734
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG2	BOILER NO. 2, NATURAL GAS	3	2	584.264	4478.101	15.24	235	0.91	17.10	427.44	0.897	0.2047
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG3	BOILER NO. 3, NATURAL GAS	5	3	584.264	4478.101	15.24	235	1.22	16.18	552.44	1.729	0.3947
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG4	BOILER NO. 4, NATURAL GAS	8	4	584.264	4478.101	18.29	235	0.71	9.14	477.44	0.026	0.0058
PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN1	TURBINES 1A,1B,1C	1	1	581.245	4479.633	10.06	222	2.00	24.11	735.22	0.331	0.0757
PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN2	TURBINES 2A, 2B, 3 - NG	4	2	581.038	4479.953	21.03	222	3.10	23.01	433.00	1.078	0.2460
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR1	IMPREGNATOR/LAMINATOR	P01	1	593.244	4497.870	13.72	284	0.46	2.13	338.56	0.005	0.0011
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR2	SCREEN PRINTER	P02	3	593.244	4497.870	5.79	284	0.43	13.11	394.11	0.005	0.0011
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC1	ENGINE TEST LAB	1	5	599.191	4488.976	9.14	233	0.13	0.03	533.00	1.289	0.2944
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC2	D2 ROAD SIMULATOR	3	6	599.191	4488.976	9.14	233	0.16	0.03	294.11	0.573	0.1308
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC3	BUILDING B11 W STACK	7	9	599.293	4488.977	9.14	233	0.30	0.03	294.11	0.023	0.0052

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL1	LARGE BAKE OVEN, NG	A03	3	584.790	4473.578	12.19	262	0.37	11.58	416.33	0.006	0.0015
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL2	SMALL BAKE OVEN, NG	A04	4	584.790	4473.578	12.50	262	0.23	1.54	408.00	0.010	0.0022
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL3	COLLAPSIBLE BLASTING ROOM	A09	1	584.790	4473.578	3.05	262	0.20	4.00	295.22	0.002	0.0004
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL5	GAS INSULATOR	A16	10	584.790	4473.578	10.97	262	0.20	0.03	294.11	0.001	0.0001
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL6	SPACE HEATERS, NG	I01	1	584.790	4473.578	10.67	262	0.43	6.55	383.00	0.023	0.0052
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL4	COIL MFG. OVEN 3 UNITS NG	I02	8	584.790	4473.578	10.97	262	0.20	0.03	533.00	0.015	0.0033
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL7	SMALL BURNOFF OVEN	P01	5	584.790	4473.578	15.24	262	0.20	4.75	1033.00	0.002	0.0004
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL8	LARGE BURNOFF OVEN	P02	6	584.790	4473.578	12.19	262	0.46	6.40	1033.00	0.003	0.0006
PA	Allegheny	PITT PENN OIL COMPANY	PITPN1	BOILER, NG	B01	1	603.493	4491.477	7.92	228	0.41	1.83	533.00	0.004	0.0008
PA	Allegheny	PITT PENN OIL COMPANY	PITPN2	MISC SPACE HEATERS	B02	9999	603.489	4492.376	15.85	228	0.67	7.10	293.00	0.008	0.0018
PA	Allegheny	PITT PENN OIL COMPANY	PITPN3	INDUSTRIAL ROADS	F02	9999	603.489	4492.376	10.67	228	0.40	11.13	293.00	0.065	0.0148
PA	Allegheny	PITT PENN OIL COMPANY	PITPN4	INDUSTRIAL ROADS	F02	9999	603.489	4492.376	7.62	228	0.64	7.59	293.00	0.130	0.0297
PA	Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LTD	PACT	BOILERS	5	1	584.475	4477.415	63.09	220	5.41	2.71	394.11	3.329	0.7600
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW1	COAL BOILER #1-TRAV GRATE	1	1	587.641	4479.417	64.00	232	2.40	4.60	478.00	2.702	0.6168
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW2	DRY GRAIN HANDLING	6	9999	587.496	4479.482	10.67	232	1.16	11.92	295.22	0.651	0.1487
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW3	WEIGH HOPPER&MALT MILL	7	9999	587.496	4479.482	23.16	232	0.55	10.30	295.22	0.006	0.0015
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW4	COOKING,BREW,SEPAR.	8	2	587.496	4479.482	19.51	232	0.15	3.51	371.89	0.020	0.0046
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW5	COAL STORAGE & HANDLING	21	9999	587.496	4479.482	11.89	232	0.49	8.78	295.22	0.053	0.0120
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI1	MICA MACHINE, OTHER	9	9999	593.395	4473.580	19.81	224	1.13	8.20	295.22	0.003	0.0006
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI2	SPACE HEAT	10	1	593.395	4473.580	3.96	224	0.91	4.42	327.44	0.003	0.0006
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CTR	PPGCH1	NO 2 STEAM BOILER	B02	4	608.711	4477.872	11.89	366	1.20	4.60	348.00	0.023	0.0051
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CTR	PPGCH2	NO 3-5 STEAM BOILERS	B05	7	608.711	4477.872	7.62	366	0.61	4.28	450.78	0.162	0.0370
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP1	PAINT MANU.-RTO-SEE COM.	1	1	602.752	4488.080	13.11	232	0.60	14.60	476.89	8.069	1.8423
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP2	PAINT MAN.(NO RTO)SEE COM	2	9999	602.752	4488.080	10.36	232	0.76	4.72	295.22	0.095	0.0218
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP3	BOILERS	06A	9999	602.752	4488.080	19.81	232	1.13	8.20	295.22	0.337	0.0770
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT1	48" COATING LINE	1	9999	598.290	4464.683	14.32	226	0.88	10.67	295.22	0.140	0.0320
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT2	60" COATING LINE	2	4	598.290	4464.683	13.72	226	1.52	15.24	1033.00	0.306	0.0698
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT3	60" COATING LINE	2	12	598.290	4464.683	13.72	226	0.46	6.34	380.22	0.005	0.0010
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT4	60" COATING LINE	2	14	598.290	4464.683	13.72	226	1.52	12.37	977.44	0.264	0.0602
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT5	YORK SHIPLEY BOILER #1NG	5	9999	598.290	4464.683	15.24	226	0.82	7.86	295.22	0.086	0.0196
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT6	MISC. SPACE & H2O HEATERS	7	11	598.290	4464.683	4.27	226	0.15	2.44	533.00	0.106	0.0242
PA	Allegheny	PRESSURE CHEMICAL COMPANY	PRESSR	ALL NG COMBUSTION UNITS	2	4	587.393	4479.580	10.67	221	0.43	6.55	294.11	0.041	0.0094
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET1	MEDIA MILLS	2	2	579.993	4479.376	8.84	228	0.58	8.44	315.78	0.979	0.2235
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET2	HEATING & VEHICLES	3	9999	579.993	4479.376	15.85	228	0.67	7.10	295.22	0.008	0.0018
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR1	STEAM BOILER KH-1, NG	1	1	589.096	4486.084	6.10	238	0.46	10.67	533.00	0.107	0.0245
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR2	DRY GOODS HANDLING	3	11	589.197	4486.185	13.72	238	0.30	19.41	294.11	0.343	0.0782
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR3	COOLING TOWER	4	8	589.197	4486.185	9.14	238	1.22	0.03	294.11	0.451	0.1030
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN1	PLANT FUGITIVE EMISSIONS	1	9999	598.097	4490.382	12.19	305	1.62	6.49	295.22	0.065	0.0149
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN2	PLANT FUGITIVE EMISSIONS	1	9999	598.097	4490.382	8.84	305	0.40	23.84	295.22	0.238	0.0542
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN3	RAW MATERIAL STORAGE	2	9999	598.097	4490.382	13.41	305	0.55	15.73	295.22	0.008	0.0018
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN4	CRUSHING/GRINDING/SCREEN	3	9999	598.097	4490.382	11.89	305	0.70	15.12	295.22	0.069	0.0158
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN5	CRUSHING/GRINDING/SCREEN	3	9999	598.097	4490.382	3.05	305	0.20	4.00	295.22	0.018	0.0041
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN6	EXTRUSION LINE	4	6	598.097	4490.382	21.33	305	0.61	29.26	294.11	0.108	0.0247
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN7	BRICK SANDBLASTING	5	9999	598.097	4490.382	7.62	305	0.58	11.22	295.22	0.446	0.1019
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN8	BRICK DRYER	6	5	598.097	4490.382	15.54	305	1.22	12.80	355.22	2.319	0.5294
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN9	NEW PLANT TUNNEL KILN	7	9999	598.097	4490.382	12.50	305	0.94	11.73	295.22	8.787	2.0062
PA	Allegheny	REICHHOLD, INC.	REIC1	BOILERS	1	7	574.390	4468.083	22.86	250	0.91	10.18	493.56	0.739	0.1687
PA	Allegheny	REICHHOLD, INC.	REIC2	THERMAL OXID.#1, BACKUP	3	1	574.390	4468.083	12.19	250	0.91	17.89	482.44	0.005	0.0010
PA	Allegheny	REICHHOLD, INC.	REIC3	PAA STG, T-703, WT-102	5	9999	574.390	4468.083	8.84	250	1.19	0.43	295.22	0.224	0.0511
PA	Allegheny	REICHHOLD, INC.	REIC4	PAA STG, T-703, WT-102	5	9999	574.390	4468.083	5.49	250	0.12	0.00	295.22	0.172	0.0393
PA	Allegheny	REICHHOLD, INC.	REIC5	THERMINOL FURNACE,NAT GAS	9	3	574.390	4468.083	15.54	250	2.06	0.03	671.89	0.142	0.0324

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	REICHHOLD, INC.	REIC6	BLDG 39 POLYESTER RESINS	10	2	574.390	4468.083	12.19	250	0.61	4.02	449.67	0.033	0.0076
PA	Allegheny	REICHHOLD, INC.	REIC7	DOWTHERM VAPORIZER #1 & 2	13	5	574.390	4468.083	15.54	250	0.51	1.74	783.00	0.007	0.0016
PA	Allegheny	REICHHOLD, INC.	REIC8	FUGITIVES EQUIPMENT	15	9999	574.390	4468.083	8.53	250	0.61	2.53	295.22	0.010	0.0024
PA	Allegheny	REICHHOLD, INC.	REIC9	MAA STG 707,WT 103	18	9999	574.390	4468.083	8.84	250	0.67	1.22	295.22	0.261	0.0595
PA	Allegheny	REICHHOLD, INC.	REIC10	COOLING TOWERS	19	9999	574.390	4468.083	9.14	250	4.33	9.05	295.22	22.219	5.0728
PA	Allegheny	REICHHOLD, INC.	REIC11	RESIN COOLING BELT	20	4	574.390	4468.083	10.97	250	0.76	13.36	399.67	0.116	0.0264
PA	Allegheny	REICHHOLD, INC.	REIC12	RESIN COOLING BELT	20	9999	574.390	4468.083	12.19	250	0.15	3.47	295.22	0.143	0.0326
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS1	BLDG#6 HOT MELT	2	3	596.091	4482.385	1.83	231	0.16	0.03	294.11	0.119	0.0271
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS2	BLDG#9 GENERAL COATINGS	3	6	596.091	4482.385	4.27	231	0.69	0.03	310.78	0.004	0.0009
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS3	BLDG#10 NATURAL GAS	11	10	596.115	4483.185	1.22	231	0.16	0.03	294.11	0.003	0.0007
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO1	HSI AREA, SOLUTION POLY	1	130	593.093	4457.579	28.65	225	0.08	0.21	283.00	0.075	0.0170
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO2	HSI AREA, SOLUTION POLY	1	132	593.093	4457.579	3.66	225	0.26	73.76	293.00	0.147	0.0336
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO3	HSI AREA, SOLUTION POLY	1	297	593.093	4457.579	28.95	225	0.20	21.79	310.78	0.044	0.0100
PA	Allegheny	SCHENLEY SCHOOL	SCHNLY	GAS FIRED BOILERS	3	1	588.593	4478.484	38.10	305	2.29	0.03	533.00	0.091	0.0207
PA	Allegheny	SHALER AREA INTERMEDIATE SCHOOL	SHALR	BOILERS	1	1	601.896	4486.881	9.45	305	0.79	0.03	421.89	0.049	0.0111
PA	Allegheny	SHENANGO INC.	SHEN1	BOILER #9, COKE OVEN GAS	6	33	578.213	4483.364	38.10	221	3.10	10.09	627.44	4.931	1.1259
PA	Allegheny	SHENANGO INC.	SHEN2	BOILER #10, COKE OVEN GAS	9	34	578.265	4483.298	34.14	221	3.10	10.70	477.44	2.825	0.6450
PA	Allegheny	SHENANGO INC.	SHEN3	BATTERY S1 FUGITIVES	11	9999	578.193	4482.876	56.39	221	2.65	4.88	295.22	0.072	0.0164
PA	Allegheny	SHENANGO INC.	SHEN4	BATTERY S1 FUGITIVES	11	9999	578.193	4482.876	55.17	221	2.35	6.58	295.22	0.142	0.0324
PA	Allegheny	SHENANGO INC.	SHEN5	BATTERY S1 FUGITIVES	11	9999	578.193	4482.876	53.03	221	2.10	6.77	295.22	1.971	0.4501
PA	Allegheny	SHENANGO INC.	SHEN6	BATTERY S-1 UNDERFIRE	12	4	577.897	4483.572	76.20	221	2.59	9.02	590.22	18.603	4.2471
PA	Allegheny	SHENANGO INC.	SHEN7	PEC BAGHOUSE	14	43	577.998	4482.885	45.72	221	3.05	19.41	294.11	22.613	5.1628
PA	Allegheny	SHENANGO INC.	SHEN8	QUENCH TOWER, BATTERY S-1	16	17	578.193	4482.876	17.07	221	4.57	4.31	338.56	6.571	1.5002
PA	Allegheny	SHENANGO INC.	SHEN9	COAL HANDLING	21	9999	578.193	4482.876	55.17	221	1.71	6.49	295.22	0.352	0.0803
PA	Allegheny	SHENANGO INC.	SHEN10	COAL STOCKPILE EROSION	22	9999	578.193	4482.876	91.44	221	4.33	4.63	295.22	0.365	0.0833
PA	Allegheny	SHENANGO INC.	SHEN11	COKE HANDLING	23	9999	578.193	4482.876	24.08	221	1.46	7.92	295.22	0.077	0.0176
PA	Allegheny	SHENANGO INC.	SHEN12	COOLING TOWERS	27	9999	578.193	4482.876	9.14	221	4.33	9.05	295.22	4.768	1.0886
PA	Allegheny	SHENANGO INC.	SHEN13	UNPAVED ROADS	29	9999	578.193	4482.876	17.07	221	0.82	8.02	295.22	2.482	0.5667
PA	Allegheny	SHENANGO INC.	SHEN14	EMERGENCY FLARE	30	42	577.998	4482.885	21.33	221	0.91	24.08	584.11	0.002	0.0005
PA	Allegheny	SHENANGO INC.	SHEN15	EMERGENCY FLARE	30	9999	578.193	4482.876	14.02	221	0.58	4.39	295.22	0.001	0.0003
PA	Allegheny	SHENANGO INC.	SHEN16	PLANT VEHICLE EXHAUST	35	9999	578.193	4482.876	14.02	221	0.40	16.82	295.22	0.028	0.0064
PA	Allegheny	SHENANGO INC.	SHEN17	PLANT VEHICLE EXHAUST	35	9999	578.193	4482.876	8.84	221	0.40	23.84	295.22	2.649	0.6049
PA	Allegheny	SHENANGO INC.	SHEN18	#1 PACKAGE BOILER	36	100	577.692	4482.982	21.33	221	0.91	14.84	421.89	0.014	0.0032
PA	Allegheny	SHENANGO INC.	SHEN19	GENERATOR	3GE	41	582.517	4476.583	113.08	221	1.68	6.22	323.00	6.570	1.5000
PA	Allegheny	SOUTH HIGH SCHOOL	SOUTH	GAS FIRED BOILERS # 1-3	3	1	585.696	4475.975	32.00	223	1.68	0.03	533.00	0.065	0.0148
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI1	BOILER	4	1	581.194	4480.476	53.34	215	2.44	2.90	588.56	0.252	0.0575
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI2	FM01 COAL BUNKER	5	9999	581.193	4480.576	20.12	215	1.10	17.43	295.22	0.001	0.0001
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI3	BAKING OVEN	8	9999	581.193	4480.576	16.76	215	0.64	8.38	295.22	0.009	0.0020
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI4	EMERGENCY ELECTRICITY	9	9999	581.193	4480.576	12.50	215	0.43	13.35	295.22	0.024	0.0054
PA	Allegheny	SUN REFINING AND MARKETING, BLAWNOX	SUNREF	FURNACES C2G-15,C3GO25 NG	12	9999	596.596	4483.979	42.37	296	0.40	2.83	295.22	0.015	0.0035
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV1	PLASTICIZER PLANT	1	9999	577.995	4483.184	8.53	222	0.61	10.30	295.22	0.414	0.0944
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV2	PHTHALIC ANHYDRIDE DIST	2	9999	577.995	4483.184	3.05	222	0.20	4.00	295.22	0.182	0.0415
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV3	ONSITE VEHICLES EMISSIONS	5	9999	577.995	4483.184	14.02	222	0.40	16.82	295.22	0.007	0.0015
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV4	ROAD DUST EMISSIONS	6	9999	577.995	4483.184	11.89	222	1.19	6.95	295.22	0.034	0.0077
PA	Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	LANEBR	ROTARY DRYERS	4	1	575.190	4469.579	10.36	247	0.91	13.41	366.33	5.808	1.3259
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM1	STOCKPILE OF AGGREGATES	3	1	580.591	4480.581	10.06	222	1.20	12.19	377.44	5.791	1.3221
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM2	ROTARY DRYER	7	9999	580.591	4480.581	10.36	222	0.55	5.49	295.22	0.006	0.0013
PA	Allegheny	THE VALSPAR CORPORATION	VALSP1	BUILDING 5, THIOKOL	1	3	580.994	4480.885	9.14	218	0.91	3.84	326.33	3.747	0.8554
PA	Allegheny	THE VALSPAR CORPORATION	VALSP2	BUILDING 7, SMALL ORDER	3	9999	580.994	4480.885	9.14	218	0.91	3.84	295.22	0.132	0.0302
PA	Allegheny	THE VALSPAR CORPORATION	VALSP3	BOILERS, CB 720-150	8	8	580.994	4480.885	15.24	218	0.46	0.03	338.56	0.084	0.0192
PA	Allegheny	THE VALSPAR CORPORATION	VALSP4	BOILERS - KEWANEE	9	9999	580.994	4480.885	15.24	218	0.82	7.86	295.22	0.087	0.0199

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PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT1	ABRASIVE BLAST	1	1	579.796	4480.384	4.57	224	0.52	0.03	310.78	0.268	0.0611
PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT2	INT & EXT COATINGS	2	9999	579.796	4480.384	15.24	224	0.82	7.86	295.22	0.027	0.0062
PA	Allegheny	TRUMBULL CORPORATION	TRUMB1	CARBONATES AGGREGATE	1	9999	572.996	4484.777	9.75	219	1.19	14.20	295.22	5.258	1.2003
PA	Allegheny	TRUMBULL CORPORATION	TRUMB2	LIMESTONE COARSE	3	9999	572.996	4484.777	12.50	219	0.58	14.84	295.22	0.765	0.1746
PA	Allegheny	TRUMBULL CORPORATION	TRUMB3	ROTARY DRUM	8	1	572.996	4484.777	10.67	219	1.26	28.59	449.67	3.562	0.8132
PA	Allegheny	TRUMBULL CORPORATION	TRUMB4	COLD AGGREGATE HANDLING	10	9999	572.996	4484.777	10.36	219	1.25	14.69	295.22	5.702	1.3018
PA	Allegheny	TRUMBULL CORPORATION	TRUMB5	HIGHLIFT	13	9999	572.996	4484.777	3.96	219	0.03	5.58	295.22	0.252	0.0576
PA	Allegheny	TRUMBULL CORPORATION	TRUMB6	ROADWAY FUGITIVE DUST	14	9999	572.996	4484.777	20.42	219	0.64	6.68	295.22	0.160	0.0364
PA	Allegheny	TUBE CITY, INC.	TUBE1	SCRAP METAL SHREDDING	1	1	588.990	4467.177	4.57	369	0.91	0.03	294.11	0.164	0.0375
PA	Allegheny	TUBE CITY, INC.	TUBE2	SCRAP METAL SHEARING	2	9999	588.990	4467.177	17.07	369	0.82	8.02	295.22	0.031	0.0070
PA	Allegheny	TUBE CITY, INC.	TUBE3	SPACE HEATERS (ALL)	3	9999	588.990	4467.177	42.37	369	0.40	2.83	295.22	0.005	0.0011
PA	Allegheny	TUBE CITY, INC.	TUBE4	ROADWAY TRAFFIC - UNPAVED	4	9999	588.990	4467.177	40.23	369	1.65	4.97	295.22	0.020	0.0045
PA	Allegheny	TUBE CITY, INC.	TUBE5	TORCH CUTTING OPERATIONS	5	9999	588.990	4467.177	21.94	369	2.26	18.35	295.22	0.335	0.0765
PA	Allegheny	TUBE CITY, INC.	TUBE6	ROADWAY TRAFFIC - PAVED	6	9999	588.990	4467.177	36.88	369	1.19	5.58	295.22	0.004	0.0008
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE1	HEATERS, FURNACES, ETC	P01	2	578.198	4474.283	13.72	235	0.15	0.03	294.11	0.009	0.0021
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE2	HARDENING FURNACES	P05	3	578.198	4474.283	9.14	235	0.91	4.31	294.11	0.447	0.1020
PA	Allegheny	UNITED REFINING CO.SPRINGDALE ASPHALT TE	UNIREF	BOILER F-2	2	1	603.517	4492.188	7.01	232	0.61	4.60	496.89	0.068	0.0156
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC1	FACILITY BOILERS	B03	1	599.293	4488.944	46.02	288	1.31	15.21	477.44	0.692	0.1580
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC2	HOT WATER BOILERS	B05	2	598.895	4488.983	9.14	288	0.76	2.20	516.33	0.010	0.0023
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC3	DIESEL EMERG GEN	D01	9999	599.192	4488.876	8.84	288	0.40	23.84	295.22	0.003	0.0008
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC4	EMERG GENERATORS NG	N01	9999	599.192	4488.876	7.62	288	0.30	26.58	295.22	0.042	0.0095
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC5	GASOLINE VEHICLES	V01	9999	599.192	4488.876	3.05	288	0.20	4.00	295.22	0.009	0.0021
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC6	DIESEL VEHICLES	V02	9999	599.192	4488.876	3.96	288	0.03	5.58	295.22	0.009	0.0019
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL1	ELECTRIC ARC FURNACE G	1	1	575.687	4468.263	21.03	250	4.50	14.51	312.44	5.668	1.2942
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL2	ELECTRIC ARC FURNACE G	1	9999	575.692	4467.775	26.82	250	1.40	6.13	295.22	2.008	0.4584
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL3	ELECTRIC ARC FURNACE G	1	9999	575.692	4467.775	24.99	250	2.44	11.73	295.22	1.531	0.3496
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL4	ARGON-OXYGEN DECARB (AOD)	2	9999	575.692	4467.775	9.14	250	1.40	12.22	295.22	0.892	0.2037
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL5	LADLE REHEAT	3	9999	575.692	4467.775	13.11	250	0.70	5.79	295.22	0.086	0.0197
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL6	ELECTRO-SLAG REMELT S	7	2	575.692	4467.775	4.57	250	0.70	22.01	291.33	0.006	0.0013
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL7	SPACE HEATERS	9	9999	575.692	4467.775	10.67	250	0.43	6.55	295.22	0.037	0.0085
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL8	ANNEALING FURNACES	11	9999	575.692	4467.775	33.83	250	1.34	10.52	295.22	1.753	0.4003
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL9	LIME SILO	16	9999	575.692	4467.775	45.72	250	0.40	1.46	295.22	0.005	0.0011
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL10	WARMING FURNACE	18	9999	575.692	4467.775	15.24	250	0.82	7.86	295.22	0.097	0.0222
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL11	ROAD DUST	23	9999	575.692	4467.775	40.23	250	1.65	4.97	295.22	0.051	0.0116
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL12	ROAD DUST	23	9999	575.692	4467.775	36.88	250	1.19	5.58	295.22	0.043	0.0099
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL13	VEHICLE EMISSIONS	V01	9999	575.692	4467.775	3.96	250	0.03	5.58	295.22	1.070	0.2444
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT1	NG BOILERS	B01	9999	588.250	4477.426	23.77	281	1.10	7.59	295.22	0.359	0.0820
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT2	DIESEL EMERG GENS	DG1	9999	588.250	4477.426	8.84	281	0.40	23.84	295.22	0.174	0.0396
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT3	NG EMER HEATERS	NG1	9999	588.250	4477.426	7.62	281	0.30	26.58	295.22	0.003	0.0007
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT4	WELDING RODS	W01	9999	588.250	4477.426	3.05	281	0.20	4.00	295.22	0.001	0.0003
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO1	MONTEFIORE BOILERS	1	1	588.025	4477.068	53.03	305	1.80	8.11	477.44	0.479	0.1094
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO2	SCAIFE INCINERATORS	3	2	588.106	4477.402	57.60	310	0.91	4.91	583.00	0.120	0.0273
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO3	BST INCINERATOR	4	3	588.014	4477.301	85.34	310	0.41	12.19	338.56	0.005	0.0012
PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE1	BOILERS	5	1	588.089	4476.647	36.88	274	0.91	1.31	505.22	0.495	0.1131
PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE2	EMERGENCY GENERATORS	8	2	588.097	4476.680	12.19	274	1.04	25.60	613.00	0.057	0.0131
PA	Allegheny	UPMC MCKEESPORT	UPMCM1	BOILER #1	1	1	597.689	4467.784	15.24	244	0.91	5.64	477.44	0.077	0.0175
PA	Allegheny	UPMC MCKEESPORT	UPMCM2	BOILER #2	2	2	597.690	4467.684	15.24	244	0.91	5.64	463.56	0.077	0.0175
PA	Allegheny	UPMC MCKEESPORT	UPMCM3	EMERGENCY GENERATORS	4	4	597.690	4467.684	13.72	244	0.24	32.12	766.33	0.057	0.0129
PA	Allegheny	UPMC MCKEESPORT	UPMCM4	GAS FIRED CHILLERS	5	5	597.791	4467.774	15.24	244	0.09	28.74	421.89	0.205	0.0467
PA	Allegheny	UPMC SHADYSIDE	UPMCS1	MAIN BOILERS	1	6	589.913	4478.755	46.02	270	2.10	1.71	560.78	0.830	0.1895
PA	Allegheny	UPMC SHADYSIDE	UPMCS2	EAST WING BOILERS	3	2	589.192	4478.780	27.43	270	0.41	7.31	505.22	0.012	0.0028

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	UPMC SHADYSIDE	UPMCS3	MEDICAL CENTER BOILERS	4	3	589.192	4478.780	4.57	270	0.41	7.31	505.22	0.023	0.0052
PA	Allegheny	UPMC SHADYSIDE	UPMCS4	MEDICAL CENTER BOILERS	4	7	589.192	4478.780	3.66	234	0.41	7.31	505.22	0.023	0.0052
PA	Allegheny	UPMC SHADYSIDE	UPMCS5	EMERGENCY GENERATORS	7	9999	589.192	4478.780	11.28	270	0.40	8.96	295.22	0.345	0.0788
PA	Allegheny	UPMC SOUTHSIDE	UPMSS1	HEATING BOILERS	1	2	586.692	4475.676	34.14	234	0.61	0.03	449.67	0.159	0.0362
PA	Allegheny	UPMC SOUTHSIDE	UPMSS2	HOSPITAL EMER. GENERATORS	2	9999	586.692	4475.676	11.28	234	0.40	8.96	295.22	0.094	0.0215
PA	Allegheny	US AIRWAYS MAINTENANCE BASE	AIRMNT	HG1-5-1 VEHICLE EXHST	16	16	564.894	4483.981	9.14	358	0.30	8.08	294.11	0.195	0.0444
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV1	BOILER #1	1	1	593.084	4465.172	21.03	287	1.10	10.24	513.56	1.685	0.3847
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV2	BOILER #2	3	2	593.105	4465.517	22.86	287	1.30	7.99	513.56	1.491	0.3404
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV3	BOILER #3-4	5	3	593.316	4465.586	29.87	287	3.10	9.69	644.11	0.807	0.1843
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV4	80 INCH MILL REHEAT	10	95	593.151	4465.906	21.33	287	1.98	29.44	508.00	21.941	5.0092
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV5	84 INCH PICKLING LINE	13	14	593.291	4465.575	35.05	287	1.37	15.31	327.44	2.839	0.6482
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV6	COLD REDUCTION MILL	14	4	593.291	4465.575	26.21	287	1.34	5.39	382.44	18.303	4.1788
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV7	COLD REDUCTION MILL	14	9999	593.192	4465.385	26.21	287	1.34	5.39	295.22	3.651	0.8334
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV8	#1 GALV. LINE PREHEAT	15	16	593.294	4465.375	25.60	287	1.42	0.03	944.11	0.629	0.1435
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV9	#2 GALV. LINE PREHEAT	17	19	593.294	4465.375	26.82	287	1.37	0.03	944.11	0.503	0.1149
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV10	HPH ANNEALING FCES	20	212	593.291	4465.575	16.76	287	0.76	2.44	644.11	1.686	0.3849
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV11	OPEN COIL ANNEALING	22	23	593.227	4465.241	20.12	287	3.00	0.40	478.00	0.795	0.1816
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV12	CONTINUOUS ANNEALING	24	25	593.202	4465.895	25.91	287	1.10	4.21	478.00	0.354	0.0808
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV13	TERNE LINE, NATURAL GAS	25	5	593.291	4465.575	33.83	287	1.34	10.52	473.00	0.053	0.0121
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV14	TERNE LINE PROCESS	26	6	593.291	4465.575	23.77	287	1.37	8.29	404.67	2.413	0.5510
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV15	PAVED ROADS	30	9999	593.192	4465.385	36.88	287	1.19	5.58	295.22	0.004	0.0008
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV16	UNPAVED ROADS	31	9999	593.192	4465.385	40.23	287	1.65	4.97	295.22	0.065	0.0149
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV17	MISCELLANEOUS NATURAL GAS	34	9999	593.192	4465.385	15.24	287	0.82	7.86	295.22	1.251	0.2856
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV18	64 INCH PICKLING LINE	37	15	593.291	4465.575	15.54	287	0.76	12.40	328.00	2.170	0.4954
PA	Allegheny	US STEEL CORPORATION - IRVIN PLANT	IRV19	COOLING TOWER	39	9999	593.192	4465.385	9.14	287	4.33	9.05	295.22	2.506	0.5722
PA	Allegheny	USS - CLAIRTON WORKS	BATFG1	BATTERY FUGITIVES	10	9999	595.493	4462.083	56.39	231	2.65	4.88	295.22	21.919	5.0044
PA	Allegheny	USS - CLAIRTON WORKS	BATFG2	BATTERY FUGITIVES	11	9999	595.493	4462.083	59.13	231	1.58	4.42	295.22	0.638	0.1456
PA	Allegheny	USS - CLAIRTON WORKS	BATFG3	BATTERY FUGITIVES	11	9999	595.493	4462.083	55.17	231	2.35	6.58	295.22	1.066	0.2434
PA	Allegheny	USS - CLAIRTON WORKS	COMB1	BATTERY 1 UNDERFIRING	13	13	595.828	4461.810	68.88	231	2.40	7.59	526.33	7.078	1.6160
PA	Allegheny	USS - CLAIRTON WORKS	COMB2	BATTERY 2 UNDERFIRING	14	14	595.820	4461.810	68.88	231	2.40	7.71	534.11	7.250	1.6553
PA	Allegheny	USS - CLAIRTON WORKS	COMB3	BATTERY 3, UNDERFIRING	15	15	595.699	4461.952	68.88	231	2.40	7.41	534.11	4.594	1.0488
PA	Allegheny	USS - CLAIRTON WORKS	COMB7	BATTERY 7, UNDERFIRING	16	16	595.862	4461.832	68.88	231	2.60	7.59	563.00	4.614	1.0534
PA	Allegheny	USS - CLAIRTON WORKS	COMB8	BATTERY 8, UNDERFIRING	17	17	595.853	4461.843	68.88	231	2.60	7.70	561.89	5.020	1.1460
PA	Allegheny	USS - CLAIRTON WORKS	COMB9	BATTERY 9, UNDERFIRING	18	18	595.733	4461.975	68.88	231	2.60	6.71	560.78	3.762	0.8589
PA	Allegheny	USS - CLAIRTON WORKS	COMB13	BATTERY 13, UNDERFIRING	19	19	595.348	4462.125	68.88	231	2.60	6.89	545.78	3.781	0.8632
PA	Allegheny	USS - CLAIRTON WORKS	COMB14	BATTERY 14, UNDERFIRING	20	20	595.340	4462.136	68.88	231	2.60	6.89	545.78	5.102	1.1648
PA	Allegheny	USS - CLAIRTON WORKS	COMB15	BATTERY 15, UNDERFIRING	21	21	595.219	4462.279	68.88	231	2.60	6.89	545.78	3.722	0.8497
PA	Allegheny	USS - CLAIRTON WORKS	COMB19	BATTERY 19, UNDERFIRING	22	22	595.238	4462.091	75.89	231	3.80	6.40	555.78	10.597	2.4193
PA	Allegheny	USS - CLAIRTON WORKS	COMB20	BATTERY 20, UNDERFIRING	23	23	595.119	4462.100	75.89	231	3.80	5.91	541.89	9.877	2.2550
PA	Allegheny	USS - CLAIRTON WORKS	COMBB	BATTERY B, UNDERFIRING	24	24	595.439	4462.371	96.01	231	5.50	3.81	491.89	9.522	2.1739
PA	Allegheny	USS - CLAIRTON WORKS	PEC1S	PEC BAGHOUSE 1-3, STACK	25	25	595.811	4461.854	24.99	231	1.22	8.84	324.67	1.975	0.4508
PA	Allegheny	USS - CLAIRTON WORKS	PEC1C	HOT CAR 1-3, NO STACK	25	930	595.493	4462.083	10.97	231	4.48	1.52	1033.00	14.242	3.2516
PA	Allegheny	USS - CLAIRTON WORKS	PEC1P	PUSHING FUGITIVES 1-3	25	935	595.690	4461.974	10.97	231	7.50	1.52	1033.00	19.274	4.4004
PA	Allegheny	USS - CLAIRTON WORKS	PEC1U	UNCONTROLLED PUSH 1-3	25	940	595.690	4461.974	10.97	231	0.58	1.52	1033.00	1.097	0.2505
PA	Allegheny	USS - CLAIRTON WORKS	PEC7S	PEC BAGHOUSE 7-9, STACK	26	26	595.819	4461.854	24.99	231	1.22	8.66	324.67	2.099	0.4791
PA	Allegheny	USS - CLAIRTON WORKS	PEC7C	HOT CAR 7-9, NO STACK	26	931	595.493	4462.083	10.97	231	4.51	1.52	1033.00	14.048	3.2072
PA	Allegheny	USS - CLAIRTON WORKS	PEC7P	PUSHING FUGITIVES 7-9	26	936	595.792	4461.976	10.97	231	8.41	1.52	1033.00	19.029	4.3445
PA	Allegheny	USS - CLAIRTON WORKS	PEC7U	UNCONTROLLED PUSH 7-9	26	941	595.792	4461.976	10.97	231	0.70	1.52	1033.00	0.908	0.2073
PA	Allegheny	USS - CLAIRTON WORKS	PEC13S	PEC BAGHOUSE 13-15, STACK	27	27	595.271	4462.191	24.99	231	0.91	16.95	324.67	2.691	0.6144
PA	Allegheny	USS - CLAIRTON WORKS	PEC13C	HOT CAR 13-15, NO STACK	27	932	595.493	4462.083	10.97	231	5.09	1.52	1033.00	17.131	3.9111
PA	Allegheny	USS - CLAIRTON WORKS	PEC13P	PUSHING FUGITIVES 13-15	27	937	595.193	4462.279	10.97	231	8.41	1.52	1033.00	23.165	5.2889

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	USS - CLAIRTON WORKS	PEC13U	UNCONTROLLED PUSH 13-15	27	942	595.193	4462.279	10.97	231	0.67	1.52	1033.00	1.421	0.3245
PA	Allegheny	USS - CLAIRTON WORKS	PEC19S	PEC BAGHOUSE 19-20, STACK	28	28	595.271	4462.180	24.99	231	0.91	15.60	304.67	2.932	0.6694
PA	Allegheny	USS - CLAIRTON WORKS	PEC19C	HOT CAR 19-20, NO STACK	28	933	595.195	4462.179	10.97	231	4.33	1.85	1033.00	18.355	4.1907
PA	Allegheny	USS - CLAIRTON WORKS	PEC19P	PUSHING FUGITIVES 19-20	28	938	595.195	4462.179	10.97	231	7.89	1.52	1033.00	24.810	5.6645
PA	Allegheny	USS - CLAIRTON WORKS	PEC19U	UNCONTROLLED PUSH 19-20	28	943	595.195	4462.179	10.97	231	0.88	1.52	1033.00	1.612	0.3680
PA	Allegheny	USS - CLAIRTON WORKS	PECBS	PEC BAGHOUSE B, STACK	29	29	595.379	4462.415	15.54	231	1.22	13.78	324.67	9.631	2.1989
PA	Allegheny	USS - CLAIRTON WORKS	PECBC	HOT CAR B, NO STACK	29	934	595.389	4462.281	10.97	231	4.39	1.52	1033.00	6.226	1.4216
PA	Allegheny	USS - CLAIRTON WORKS	PECBP	PUSHING FUGITIVES B	29	939	595.594	4462.184	10.97	231	4.51	1.52	1033.00	8.222	1.8771
PA	Allegheny	USS - CLAIRTON WORKS	PECBU	UNCONTROLLED PUSH B	29	944	595.492	4462.183	10.97	231	0.52	1.52	1033.00	0.024	0.0055
PA	Allegheny	USS - CLAIRTON WORKS	BALLML	BALL MILLS	29	9999	595.493	4462.083	53.03	231	2.10	6.77	295.22	2.197	0.5017
PA	Allegheny	USS - CLAIRTON WORKS	QNCH1	QUENCH TOWER 1, NO STACK	30	945	595.889	4461.677	30.48	231	5.15	3.05	373.00	10.640	2.4292
PA	Allegheny	USS - CLAIRTON WORKS	QNCH3	QUENCH TOWER 3, NO STACK	31	946	595.991	4461.678	30.48	231	5.15	3.05	373.00	10.465	2.3894
PA	Allegheny	USS - CLAIRTON WORKS	QNCH5	QUENCH TOWER 5, NO STACK	32	947	595.391	4462.082	30.48	231	5.15	3.05	373.00	12.780	2.9178
PA	Allegheny	USS - CLAIRTON WORKS	QNCH7	QUENCH TOWER 7, NO STACK	33	948	595.393	4461.982	37.18	231	8.78	3.05	373.00	13.694	3.1264
PA	Allegheny	USS - CLAIRTON WORKS	QNCHB	QUENCH TOWER B, NO STACK	34	949	595.396	4462.381	41.15	231	9.57	3.05	373.00	11.491	2.6236
PA	Allegheny	USS - CLAIRTON WORKS	BOILRR	BOILER R1/R2	47	59	594.866	4462.586	49.98	231	2.59	7.50	495.78	0.825	0.1884
PA	Allegheny	USS - CLAIRTON WORKS	BOILRT	BOILER T1/T2	53	63	594.816	4462.541	27.13	231	1.50	9.11	495.78	0.617	0.1408
PA	Allegheny	USS - CLAIRTON WORKS	UNLOAD	CRANE UNLOADER	64	973	595.095	4462.677	15.24	231	1.95	0.25	288.56	0.018	0.0042
PA	Allegheny	USS - CLAIRTON WORKS	COALTR	COAL TRANSFER	66	9999	595.493	4462.083	35.96	231	2.83	4.05	295.22	0.875	0.1997
PA	Allegheny	USS - CLAIRTON WORKS	PULV	PULVERIZERS	67	9999	595.493	4462.083	54.56	231	1.92	8.23	295.22	0.010	0.0023
PA	Allegheny	USS - CLAIRTON WORKS	EROS	COAL & COKE STORAGE/EROSION	70	9999	595.493	4462.083	91.44	231	4.33	4.63	295.22	6.249	1.4267
PA	Allegheny	USS - CLAIRTON WORKS	COKETR	COKE TRANSFER	71	9999	595.493	4462.083	21.03	231	0.73	1.52	295.22	5.040	1.1506
PA	Allegheny	USS - CLAIRTON WORKS	SCREEN	SCREENING	75	9999	595.493	4462.083	24.08	231	1.46	7.92	295.22	3.947	0.9010
PA	Allegheny	USS - CLAIRTON WORKS	ROADS	PLANT ROADS	79	9999	595.493	4462.083	17.07	231	0.82	8.02	295.22	5.066	1.1567
PA	Allegheny	USS - CLAIRTON WORKS	VEHICL	VEHICLE & TUIG BOAT EXHAUST	80	9999	595.493	4462.083	8.84	231	0.40	23.84	295.22	19.257	4.3967
PA	Allegheny	USS - CLAIRTON WORKS	SCOT	SCOT HYDROGENATION UNIT	83	83	595.537	4462.006	46.02	231	1.20	17.40	638.00	2.097	0.4787
PA	Allegheny	USS - CLAIRTON WORKS	CONVEY	CONVEYORS, HANDLING, ETC.	65A	974	593.991	4463.285	15.24	231	1.95	5.01	288.56	0.245	0.0559
PA	Allegheny	USS - CLAIRTON WORKS	CLGEN	GENERATORS	GEN	41	595.002	4462.730	113.08	233	1.68	6.22	323.00	12.700	2.8995
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET3	BF STOVE #1	10	1	597.184	4472.007	53.03	233	3.30	9.51	492.44	89.721	20.4842
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET4	BF CASTHOUSE ROOF MONS	15	9999	596.693	4471.879	39.62	233	2.32	9.27	295.22	13.257	3.0267
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET5	BF STOVE #3	16	4	597.022	4472.039	56.99	233	2.59	15.21	492.44	80.416	18.3599
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET6	BF CASTHOUSE BAGHOUSES	22	2	597.134	4471.951	21.03	233	3.51	14.00	290.22	17.096	3.9033
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET7	BFG FLARE	23	3	597.090	4472.051	53.03	233	3.30	9.51	493.00	7.643	1.7449
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET8	BF SLAG HANDLING	24	9999	596.693	4471.879	31.09	233	1.95	9.33	295.22	0.059	0.0136
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET9	HM MIXER & DESULF BAGHSE	25	5	596.493	4472.276	14.63	233	0.73	11.01	320.22	5.435	1.2409
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET10	BOP SECONDARY BAGHOUSE	25	6	596.741	4472.113	27.13	233	1.70	17.71	316.89	2.424	0.5533
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET11	BOP VENTURI SCRUBBER F	25	8	596.595	4472.277	54.86	233	3.05	10.36	314.67	150.155	34.2820
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET12	LADLE METALLURGY BAGHOUSE	25	9	596.493	4472.276	15.24	233	0.76	17.83	319.11	0.264	0.0602
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET13	FLUX UNLOADING BAGHOUSE	25	15	597.090	4471.385	7.92	233	2.25	0.79	292.44	0.145	0.0332
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET14	FLUX TRANSFER TOWER	25	16	597.191	4471.475	3.05	233	2.25	1.11	292.44	0.073	0.0167
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET15	FLUX FINAL TRANSFER #1	25	17	597.293	4471.476	52.73	233	2.57	1.33	292.44	0.225	0.0513
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET16	FLUX FINAL TRANSFER #2	25	18	597.090	4471.385	52.73	233	2.94	0.66	292.44	0.225	0.0513
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET17	BOP BUILDING FUGITIVES	25	25	597.092	4471.884	29.26	233	2.01	11.03	447.44	6.769	1.5454
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET18	BOP SLAG PROCESSING	26	9999	596.693	4471.879	36.27	233	2.38	6.00	295.22	0.058	0.0132
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET19	BOP SLAG PROCESSING	26	9999	596.693	4471.879	8.84	233	1.01	16.34	295.22	0.022	0.0050
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET20	BOP PROCESS FUEL	27	24	597.092	4471.884	41.76	233	2.04	9.97	501.89	1.372	0.3131
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET21	BOP PROCESS FUEL	28	24	597.092	4471.884	15.24	233	0.82	7.86	462.44	1.044	0.2384
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET22	PAVED ROADS	35	9999	596.693	4471.879	36.88	233	1.19	5.58	295.22	0.021	0.0049
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET23	UNPAVED ROADS	36	9999	596.693	4471.879	40.23	233	1.65	4.97	295.22	0.335	0.0764
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET24	STORAGE PILES	37	9999	596.693	4471.879	45.72	233	2.26	8.63	295.22	0.355	0.0810
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET25	CASTER/LMF	39	9999	596.693	4471.879	73.15	233	2.38	3.35	295.22	0.064	0.0145

State	County	Facility Name	ID	Process	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET26	CASTER/LMF	40	9999	596.693	4471.879	16.15	233	0.91	10.30	295.22	0.370	0.0845
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET27	BF SLIPS	46	9999	596.693	4471.879	49.38	233	2.41	10.30	295.22	0.252	0.0576
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET28	BF FUME SUPPRESSION	48	9999	596.693	4471.879	41.76	233	2.04	9.97	295.22	0.113	0.0258
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET29	BF RAW MAT'L HANDLING	50	9999	596.693	4471.879	44.50	233	2.23	8.90	295.22	0.206	0.0471
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET30	VACUUM DEGASSER	54	26	597.293	4471.476	29.26	233	2.01	11.03	447.44	0.418	0.0955
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET31	PLANT WIDE MISC COMB	55	9999	596.693	4471.879	15.24	233	0.82	7.86	295.22	0.613	0.1398
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ET32	COOLING TOWERS	57	9999	596.693	4471.879	9.14	233	4.33	9.05	295.22	34.123	7.7905
PA	Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	ETGEN	GENERATORS	GEN	41	597.057	4471.950	113.08	233	1.68	6.22	323.00	30.250	6.9064
PA	Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	VAASPN	BOILERS #1-4	4	4	594.307	4483.372	25.91	283	0.51	7.07	449.67	0.171	0.0390
PA	Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	VAHIGH	BOILERS #1-3	3	3	594.692	4481.079	18.90	307	0.91	5.00	533.00	0.213	0.0486
PA	Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	VAOAK1	BOILERS #1-3	2	2	588.032	4477.867	45.72	344	2.60	4.69	421.89	0.316	0.0722
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL1	BOILER NO. 2	3	5	574.797	4484.284	10.06	213	0.91	7.31	505.22	0.395	0.0901
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL2	MEAL LOADOUT	5	9999	574.797	4484.284	10.36	213	0.27	5.70	295.22	0.114	0.0261
PA	Allegheny	VORTEC U-PARC PROCESS TEST FACILITY	VORTC1	VORTEC PILOT TEST FACILTY	1	1	598.791	4488.504	21.33	283	0.40	9.94	349.67	0.001	0.0001
PA	Allegheny	WATSON STANDARD COMPANY - NEVILLE ISLAND	WATSN	PIGMENT HANDLING	1	9999	588.250	4477.426	8.84	222	0.58	8.44	295.22	0.748	0.1708
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN1	HOT WATER BOILERS	8	2	593.192	4479.684	28.95	273	2.13	0.03	533.00	0.058	0.0132
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN2	GAS FIRED WATER HEATERS	10	1	593.396	4479.675	28.95	273	2.13	0.03	533.00	0.003	0.0008
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA1	BUILDING ROOF FANS	1	1	590.591	4471.781	21.33	228	1.83	0.03	294.11	0.206	0.0470
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA2	STACK FROM FURNACES	1	3	590.591	4471.781	24.38	228	1.22	0.03	533.00	0.081	0.0184
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA3	PLANT FUGITIVES	2	9999	590.591	4471.781	9.45	228	0.98	10.79	295.22	0.058	0.0132
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO1	VIRTUAL FOR P001-P006	1	1	591.189	4472.876	18.29	226	0.03	0.03	294.11	0.194	0.0442
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO2	PLANT FUGITIVES	1	9999	591.189	4472.876	23.77	226	1.10	7.59	295.22	0.005	0.0012
PA	Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	WINTHP	FUEL BURNING BOILERS	12	1	586.197	4478.179	3.05	230	1.07	6.77	521.89	0.576	0.1314

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
Pennsylvania Sources (w/o EGUs)														
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN1	102	SO6	640.162	4500.738	7.62	425	0.61	13.58	533.00	0.032	0.0072
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN2	204	SO4	640.162	4500.738	17.37	425	3.49	18.82	662.44	9.600	2.1918
PA	Armstrong	DLR MINING INC/TRIPLE K #1 DEEP MINE	DLRMIN	101	S01	629.518	4503.354	8.53	256	0.38	22.38	603.56	0.200	0.0457
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR1	102	S02	638.919	4499.826	10.36	325	0.30	27.00	688.56	0.600	0.1370
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR2	103	S03	638.919	4499.826	10.06	325	0.30	22.90	533.00	0.200	0.0457
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR3	104	S04	638.919	4499.826	9.14	325	0.49	20.86	632.44	0.500	0.1142
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL1	32	S32	637.874	4516.864	7.31	331	0.21	24.40	810.78	0.100	0.0228
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL2	101	S01	637.874	4516.864	9.45	331	0.30	26.70	666.33	0.300	0.0685
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL3	104	S04	637.874	4516.864	9.14	331	0.49	20.86	632.44	0.605	0.1382
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL4	105	S05	637.874	4516.864	9.45	331	0.30	23.10	560.78	0.200	0.0457
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB1	101	S01	638.919	4499.826	7.92	325	0.52	28.90	588.56	0.200	0.0457
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB2	103	S03	638.919	4499.826	7.92	325	0.52	27.30	588.56	0.200	0.0457
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB3	104	S04	638.919	4499.826	7.92	325	0.52	26.80	588.56	0.200	0.0457
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB4	105	S05	638.919	4499.826	7.92	325	0.52	27.60	588.56	0.100	0.0228
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB5	106	S06	638.919	4499.826	7.92	325	0.52	26.00	588.56	0.100	0.0228
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB6	114	S09	638.919	4499.826	7.92	325	0.61	1.62	449.67	0.100	0.0228
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR1	101	S01	624.097	4515.065	7.62	238	0.76	28.61	385.78	0.210	0.0479
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR2	102	S12	624.097	4515.065	17.98	238	0.46	1.76	560.78	0.061	0.0140
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR3	102	S11	624.097	4515.065	17.07	238	0.46	1.76	560.78	0.119	0.0271
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR4	103	S03	624.097	4515.065	21.64	238	0.76	1.53	560.78	0.140	0.0320
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR5	106	S06	624.097	4515.065	9.45	238	0.61	1.92	560.78	0.360	0.0822
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR6	107	S07	624.097	4515.065	8.53	238	0.61	2.04	560.78	0.130	0.0297
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR7	108	S08	624.097	4515.065	8.84	238	0.61	1.67	560.78	0.120	0.0274
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR8	109	S13	624.097	4515.065	10.06	238	0.91	0.26	560.78	0.060	0.0137
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR9	110	S15	624.097	4515.065	13.11	238	1.22	0.21	560.78	0.180	0.0411
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR10	111	S17	624.097	4515.065	14.32	238	1.22	0.31	560.78	0.100	0.0228
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR11	114	S20	624.097	4515.065	7.62	238	0.46	21.56	294.11	9.000	2.0548
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR12	115	S21	624.097	4515.065	8.23	238	0.61	12.13	294.11	4.000	0.9132
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR13	116	S22	624.097	4515.065	10.97	238	0.30	19.40	294.11	1.550	0.3539
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR14	119	S26	624.097	4515.065	10.67	238	0.73	10.26	324.11	10.030	2.2900
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR15	119	S27	624.097	4515.065	8.53	238	0.46	14.37	294.11	2.040	0.4658
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR16	120	Z01	624.097	4515.065	0.61	238	0.01	0.00	295.22	0.370	0.0845
PA	Armstrong	EQUITABLE GAS CO/SHOEMAKER	EQSHM	102	S02	622.399	4512.627	5.49	245	0.61	21.64	621.89	0.332	0.0758
PA	Armstrong	EQUITABLE GAS CO/VILLAGE STATION	EQVIL	101	S01	639.997	4516.215	8.23	420	0.44	17.46	668.56	0.052	0.0118
PA	Armstrong	EQUITRANS INC/CROOKED CREEK COMPRES S	EQTNCC	102	S02	623.998	4508.412	6.10	254	0.91	2.60	533.00	0.910	0.2078
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP1	101	S02	610.750	4504.472	10.97	239	0.94	26.59	483.00	0.999	0.2282
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP2	104	Z01	610.750	4504.472	7.62	239	0.01	0.00	295.22	0.089	0.0202
PA	Armstrong	KEYSTONE COAL MINING/KEYSTONE	KEYCO	106	Z05	639.689	4502.517	22.86	305	0.01	0.00	295.22	8.965	2.0468
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR1	31	S05	628.861	4532.747	12.50	430	0.59	6.38	490.78	0.030	0.0068
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR2	101	S02	628.861	4532.747	13.11	430	1.10	13.79	456.33	0.359	0.0819
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR3	105	S04	628.861	4532.747	9.45	430	0.77	8.67	565.22	0.242	0.0553
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR4	107	S06	628.861	4532.747	12.50	430	0.67	17.22	308.00	0.182	0.0416
PA	Armstrong	NATL FUEL GAS SUPPLY/KAYLOR STA	NATFG	101	S01	616.437	4533.506	8.23	401	0.44	17.46	668.56	0.060	0.0137
PA	Armstrong	VISTA METALS/KITTANNING PLT	VISTA	101	Z01	621.796	4518.958	6.10	359	0.01	0.00	295.22	0.133	0.0303

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH1	102	Z04	560.718	4504.582	0.61	226	0.01	0.00	295.22	2.527	0.5770
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH2	103	S02	560.718	4504.582	30.48	226	1.52	1.32	699.67	39.370	8.9885
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH3	105	Z02	560.718	4504.582	12.19	226	0.01	0.00	295.22	0.454	0.1037
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH4	108	S108	560.718	4504.582	15.85	226	0.69	10.52	335.78	0.609	0.1390
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH5	109	S03	560.718	4504.582	30.48	226	1.52	8.97	473.56	0.100	0.0228
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH6	110	S01	560.718	4504.582	11.28	226	0.54	6.31	500.22	0.117	0.0267
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH7	115	S19	560.718	4504.582	17.68	226	0.98	11.38	465.78	0.044	0.0100
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW1	33	P15	557.038	4511.680	18.29	237	0.70	7.94	421.89	0.200	0.0457
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW2	106	S06	557.038	4511.680	12.50	237	0.72	7.17	314.67	11.100	2.5342
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW3	134	Z01	557.038	4511.680	0.61	237	0.01	0.00	295.22	0.200	0.0457
PA	Beaver	BASF CORP/MONACA PLT	BASFM1	CD002	S01	555.301	4501.276	12.19	227	0.09	1.44	294.11	0.051	0.0117
PA	Beaver	BASF CORP/MONACA PLT	BASFM2	CD003	SO2	555.301	4501.276	12.19	227	1.98	8.28	1060.78	0.006	0.0013
PA	Beaver	CENTRIA/CENTRIA	CNTRA	101	S04	567.555	4508.227	26.21	231	0.76	1.03	477.44	0.110	0.0251
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM1	32	S02	557.403	4504.911	14.93	236	1.43	4.47	449.67	0.200	0.0457
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM2	33	S03	557.403	4504.911	14.93	236	0.61	24.68	449.67	0.100	0.0228
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM3	104	S04	557.403	4504.911	9.75	236	0.72	7.16	325.78	0.030	0.0068
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL1	125	S01	548.126	4517.856	8.23	277	0.98	12.73	538.56	3.600	0.8219
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL2	132	S05	548.126	4517.856	13.11	277	1.10	13.79	456.33	0.860	0.1963
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB1	36	S06	563.302	4513.740	9.45	330	0.61	12.94	505.22	0.011	0.0026
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB2	104	S04	563.302	4513.740	15.85	330	0.91	7.19	644.11	2.900	0.6621
PA	Beaver	ENGINEERED POLYMER S/ROCHESTER	ENGPL	101	S01	561.882	4514.961	10.36	361	1.06	7.93	390.78	1.585	0.3618
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS1	34	S01	556.078	4502.403	83.82	238	3.35	23.50	421.89	7.400	1.6895
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS2	207	S02	556.078	4502.403	31.39	238	2.22	3.64	320.22	0.400	0.0913
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS3	210	S03	556.078	4502.403	30.48	238	0.55	16.40	294.11	0.410	0.0936
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS4	400	S04	556.078	4502.403	18.29	238	1.83	5.39	311.33	0.700	0.1598
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS5	401	U01	556.078	4502.403	121.91	238	5.39	12.00	365.22	6.881	1.5710
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS6	403	X01	556.078	4502.403	15.24	238	0.30	5.98	294.11	0.019	0.0043
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS7	404	S05	556.078	4502.403	34.14	238	1.52	7.76	366.33	1.200	0.2740
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS8	501	W13	556.078	4502.403	19.20	238	0.40	15.10	338.56	0.114	0.0260
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS9	501	W15	556.078	4502.403	19.20	238	0.40	6.58	338.56	0.051	0.0116
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS10	506	U03	556.078	4502.403	60.96	238	3.35	12.10	344.11	2.439	0.5568
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS11	506	U02	556.078	4502.403	36.88	238	2.13	16.50	352.44	2.038	0.4653
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS12	506	S11	556.078	4502.403	31.70	238	2.07	14.00	321.89	9.086	2.0744
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS13	506	S13	556.078	4502.403	31.70	238	2.07	19.60	349.67	3.080	0.7032
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS14	508	S07	556.078	4502.403	31.09	238	1.83	17.30	294.11	2.392	0.5461
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS15	703	S20	556.078	4502.403	16.46	238	0.58	17.90	294.11	0.300	0.0685
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS16	705	S19	556.078	4502.403	12.80	238	0.79	6.22	294.11	0.400	0.0913
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS17	706	S51	556.078	4502.403	13.72	238	1.43	14.60	294.11	1.600	0.3653
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS18	800	S24	556.078	4502.403	22.86	238	1.07	18.50	471.89	0.512	0.1169
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS19	800	S25	556.078	4502.403	22.86	238	1.68	8.06	394.11	0.512	0.1169
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS20	800	S26	556.078	4502.403	22.86	238	1.22	14.20	355.22	0.512	0.1169
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS21	801	S37	556.078	4502.403	21.94	238	0.91	28.80	394.11	1.332	0.3041
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS22	801	S33	556.078	4502.403	20.73	238	1.24	19.91	370.78	0.656	0.1498
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS23	801	S31	556.078	4502.403	14.63	238	1.31	25.30	394.11	1.184	0.2703
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS24	801	S32	556.078	4502.403	12.80	238	1.31	25.30	394.11	0.592	0.1352

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PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS25	802	S22	556.078	4502.403	19.20	238	0.55	14.80	294.11	0.150	0.0342
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS26	802	S23	556.078	4502.403	7.92	238	0.46	7.19	338.56	0.050	0.0114
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS27	904	S10	556.078	4502.403	18.29	238	1.01	17.80	294.11	1.530	0.3493
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS28	904	X08	556.078	4502.403	13.41	238	0.30	23.50	294.11	0.270	0.0616
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS29	905	S08	556.078	4502.403	18.29	238	0.91	11.20	294.11	0.300	0.0685
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS30	906	S12	556.078	4502.403	19.51	238	1.52	9.06	394.11	0.800	0.1826
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL1	40	S040	545.577	4498.790	14.02	233	0.91	13.03	438.56	0.690	0.1575
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL2	50	S05	545.577	4498.790	11.28	233	0.56	6.28	493.56	0.021	0.0048
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL3	106	S106	545.577	4498.790	25.91	233	3.75	9.10	349.67	7.026	1.6042
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL4	137	Z137	545.577	4498.790	4.57	233	0.91	10.93	294.11	1.069	0.2442
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL5	138	S138C	545.577	4498.790	17.37	233	0.87	7.80	550.78	0.697	0.1592
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL6	202	S202	545.577	4498.790	17.68	233	1.07	10.92	400.78	15.090	3.4452
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL7	205	S205	545.577	4498.790	17.37	233	0.90	5.79	316.89	5.418	1.2371
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL8	209	S209	545.577	4498.790	17.68	233	1.04	8.42	497.44	0.680	0.1553
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA1	101	S01	557.457	4520.775	38.10	238	3.29	0.17	699.67	0.530	0.1210
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA2	102	S02	557.457	4520.775	16.46	238	1.22	0.04	755.22	0.320	0.0731
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA3	103	S03	557.457	4520.775	17.37	238	0.87	7.80	550.78	0.330	0.0753
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA4	104	S04	557.457	4520.775	17.68	238	0.98	11.38	465.78	0.250	0.0571
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA5	105	S05	557.457	4520.775	17.68	238	1.07	10.92	400.78	0.160	0.0365
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA6	106	S06	557.457	4520.775	19.51	238	0.61	10.92	755.22	0.025	0.0057
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA7	110	S09	557.457	4520.775	11.28	238	0.54	6.31	500.22	22.741	5.1920
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK1	33	S03	557.466	4520.731	16.46	277	1.22	4.29	755.22	0.190	0.0434
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK2	102	S02	557.466	4520.731	16.46	277	1.22	3.10	755.22	0.070	0.0160
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK3	109	S05	557.466	4520.731	30.48	277	3.05	17.43	338.56	0.360	0.0822
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK4	121	S17	557.466	4520.731	14.32	277	0.63	9.05	320.78	0.460	0.1050
PA	Beaver	NGC IND/SHIPPINGPORT	NGC1	100	S100	549.334	4497.294	9.14	240	0.61	16.17	449.67	3.030	0.6918
PA	Beaver	NGC IND/SHIPPINGPORT	NGC2	109	S09	549.334	4497.294	17.68	240	0.98	11.38	465.78	2.740	0.6256
PA	Beaver	NGC IND/SHIPPINGPORT	NGC3	201	S201	549.334	4497.294	17.98	240	0.52	11.87	294.11	3.810	0.8699
PA	Beaver	NGC IND/SHIPPINGPORT	NGC4	202	S202	549.334	4497.294	17.98	240	0.52	3.96	294.11	1.260	0.2877
PA	Beaver	NGC IND/SHIPPINGPORT	NGC5	203	S203	549.334	4497.294	17.98	240	0.46	14.09	294.11	3.520	0.8037
PA	Beaver	NGC IND/SHIPPINGPORT	NGC6	204	S204	549.334	4497.294	13.72	240	0.46	18.97	294.11	4.730	1.0799
PA	Beaver	NGC IND/SHIPPINGPORT	NGC7	205	S205	549.334	4497.294	18.29	240	0.30	5.17	294.11	0.590	0.1347
PA	Beaver	NGC IND/SHIPPINGPORT	NGC8	206	Z206	549.334	4497.294	0.61	240	0.01	0.00	295.22	9.470	2.1621
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK1	33	S03	562.994	4501.215	17.68	217	1.04	8.42	497.44	0.086	0.0195
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK2	101	Z01	562.994	4501.215	0.61	217	0.01	0.00	295.22	2.070	0.4726
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA1	101	S01	554.452	4500.526	12.19	230	1.46	21.90	510.78	0.364	0.0830
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA2	301	S03	554.452	4500.526	30.17	230	0.61	3.03	1255.22	0.004	0.0008
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA3	401	Z410	554.452	4500.526	0.61	230	0.01	0.00	295.22	2.563	0.5853
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA4	501	S510	554.452	4500.526	9.45	230	0.44	5.44	326.33	0.967	0.2208
PA	Beaver	SCA PKG NORTH AMERICA /NEW BRIGHTN FAC	SCAPKG	32	S02	558.798	4510.106	7.62	237	0.61	5.87	488.56	0.200	0.0457
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP1	24	S-21	543.843	4493.285	20.73	231	0.46	28.75	294.11	5.263	1.2016
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP2	28	Z01	543.843	4493.285	3.05	231	0.01	0.00	295.22	0.618	0.1410
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP3	CD200	S200	543.843	4493.285	30.17	231	0.61	18.05	333.00	6.868	1.5681
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP4	EU-1,2	S-1	543.843	4493.285	16.46	231	2.59	15.31	368.00	0.505	0.1152
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP5	EU-4	S-3	543.843	4493.285	17.68	231	0.98	11.38	465.78	5.074	1.1584

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PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP6	EU-5	S-4	543.843	4493.285	30.48	231	1.55	15.72	377.44	19.942	4.5530
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP7	EU-7	S-6	543.843	4493.285	7.62	231	0.27	15.97	588.56	0.024	0.0055
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF1	102	S02	546.953	4497.933	17.68	237	1.07	10.92	400.78	0.400	0.0913
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF2	131	S03	546.953	4497.933	7.92	237	0.69	14.18	302.44	3.200	0.7306
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF3	132	S04	546.953	4497.933	12.19	237	1.83	21.56	366.33	4.790	1.0936
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF4	135	Z05	546.953	4497.933	0.61	237	0.01	0.00	295.22	0.590	0.1347
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST1	31	S04	589.150	4520.346	17.68	296	1.22	1.55	533.00	0.330	0.0753
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST2	32	S05	589.150	4520.346	9.14	296	0.91	4.41	533.00	0.280	0.0639
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST3	33	S06	589.150	4520.346	19.51	296	1.52	3.54	505.22	0.340	0.0776
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST4	34	S07	589.150	4520.346	19.51	296	1.52	4.54	505.22	0.340	0.0776
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST5	35	S08	589.150	4520.346	19.51	296	1.52	5.78	505.22	0.520	0.1187
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST6	38	S038	589.150	4520.346	4.57	296	0.61	7.75	494.11	0.310	0.0708
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST7	103	S44	589.150	4520.346	11.28	296	0.56	6.28	493.56	9.770	2.2306
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST8	105	S25	589.150	4520.346	18.29	296	0.61	12.90	321.89	1.570	0.3584
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST9	110	U10	589.150	4520.346	19.81	296	2.74	11.20	299.67	15.910	3.6324
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST10	112	T08	589.150	4520.346	22.25	296	1.75	7.53	645.22	3.720	0.8493
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST11	113	T09	589.150	4520.346	45.72	296	1.16	25.40	1079.67	1.380	0.3151
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST12	118	T12	589.150	4520.346	15.24	296	0.98	13.42	310.78	1.270	0.2900
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST13	119	T14	589.150	4520.346	19.51	296	0.76	17.10	310.78	3.090	0.7055
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST14	120	T15	589.150	4520.346	16.76	296	0.76	15.52	310.78	1.450	0.3311
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST15	121	V21	589.150	4520.346	17.37	296	0.90	5.79	316.89	17.950	4.0982
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST16	124	T19	589.150	4520.346	16.46	296	0.91	12.94	310.78	1.160	0.2649
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST17	127	T22	589.150	4520.346	20.42	296	0.61	13.75	310.78	0.480	0.1096
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST18	136	S17	589.150	4520.346	23.47	296	10.67	3.96	394.11	5.350	1.2215
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST19	148	S23	589.150	4520.346	24.08	296	1.34	6.64	471.33	0.880	0.2009
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST20	156	Z03	589.150	4520.346	30.48	296	0.01	0.00	295.22	0.917	0.2092
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST21	158	S19	589.150	4520.346	32.92	296	2.00	11.16	470.22	2.110	0.4817
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST22	253	Z52	589.150	4520.346	0.61	296	0.01	0.00	295.22	3.007	0.6864
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST23	123E	T18E	589.150	4520.346	7.31	296	0.55	9.36	296.89	6.330	1.4452
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST24	160A	S24	589.150	4520.346	17.68	296	1.04	8.42	497.44	1.190	0.2717
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC1	101	S01	609.655	4516.791	53.34	295	3.66	17.80	513.56	24.080	5.4977
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC2	102	S09	609.655	4516.791	27.43	295	0.30	16.17	294.11	0.180	0.0411
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC3	103	S08	609.655	4516.791	22.86	295	0.91	30.19	294.11	0.126	0.0287
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC4	104	S07	609.655	4516.791	12.19	295	0.61	9.70	294.11	0.126	0.0287
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC5	122	S03	609.655	4516.791	6.10	295	0.91	23.43	366.33	13.650	3.1164
PA	Butler	BASF EVANS CITY OPS	BASFE1	100	Z01	584.284	4522.587	0.61	330	0.01	0.00	295.22	4.280	0.9772
PA	Butler	BASF EVANS CITY OPS	BASFE2	441	S443	584.284	4522.587	15.54	330	0.47	6.99	345.78	0.230	0.0525
PA	Butler	BASF EVANS CITY OPS	BASFE3	441	S441	584.284	4522.587	10.67	330	0.15	13.61	294.11	0.230	0.0525
PA	Butler	BASF EVANS CITY OPS	BASFE4	640	S281	584.284	4522.587	9.14	330	0.91	7.91	294.11	0.440	0.1005
PA	Butler	BASF EVANS CITY OPS	BASFE5	721	S721	584.284	4522.587	3.96	330	0.46	12.82	449.67	0.120	0.0274
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ1	109	S109	571.795	4516.016	11.89	275	0.51	13.33	301.33	4.550	1.0388
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ2	111	S111B	571.795	4516.016	7.31	275	0.61	17.01	294.11	0.010	0.0023
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ3	202	S202C	571.795	4516.016	15.54	275	0.88	9.95	453.00	0.230	0.0526
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ4	207	S207A	571.795	4516.016	21.33	275	0.98	10.74	463.56	1.895	0.4326
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ5	207	S207B	571.795	4516.016	13.11	275	1.10	13.79	456.33	2.755	0.6290

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PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL1	101	S01	594.788	4524.591	7.62	309	0.61	16.50	596.89	7.100	1.6210
PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL2	108	S08	594.788	4524.591	4.57	309	0.76	19.92	471.89	5.480	1.2511
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR1	33	S33	597.798	4525.208	2.44	318	0.55	3.49	413.56	0.147	0.0336
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR2	106	S06	597.798	4525.208	0.91	318	0.30	11.32	293.00	1.512	0.3452
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR3	108	S08	597.798	4525.208	8.84	318	0.44	7.24	314.67	2.779	0.6345
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR4	109	S09	597.798	4525.208	3.66	318	0.61	2.42	421.89	0.063	0.0144
PA	Butler	CROMPTON CORP/PETROLIA	CROM1	32	S032	607.816	4540.948	60.96	358	2.74	7.66	588.56	2.248	0.5133
PA	Butler	CROMPTON CORP/PETROLIA	CROM2	33	S033	607.816	4540.948	9.14	358	0.61	29.40	449.67	0.620	0.1416
PA	Butler	CROMPTON CORP/PETROLIA	CROM3	34	S034	607.816	4540.948	60.96	358	1.83	7.44	610.78	7.296	1.6657
PA	Butler	CROMPTON CORP/PETROLIA	CROM4	110	S0110	607.816	4540.948	18.29	358	0.61	2.51	588.56	0.947	0.2162
PA	Butler	CROMPTON CORP/PETROLIA	CROM5	112	S0112	607.816	4540.948	15.24	358	0.61	1.15	694.11	0.075	0.0171
PA	Butler	CROMPTON CORP/PETROLIA	CROM6	116	S0116	607.816	4540.948	15.24	358	0.61	1.29	644.11	0.459	0.1049
PA	Butler	CROMPTON CORP/PETROLIA	CROM7	119	S0118	607.816	4540.948	15.24	358	0.61	1.62	644.11	0.422	0.0963
PA	Butler	CROMPTON CORP/PETROLIA	CROM8	123	SO5	607.816	4540.948	3.05	358	0.30	0.02	921.89	1.717	0.3920
PA	Butler	CROMPTON CORP/PETROLIA	CROM9	130	Z01	607.816	4540.948	9.14	358	0.01	0.00	295.22	7.883	1.7998
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS1	35	S035	607.882	4541.582	9.14	358	0.76	3.62	421.89	0.150	0.0342
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS2	36	S036	607.882	4541.582	15.24	358	0.76	3.08	433.00	0.150	0.0342
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS3	38	S038	607.882	4541.582	26.21	358	1.28	16.13	449.67	0.700	0.1598
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS4	39	S039	607.882	4541.582	15.54	358	1.83	12.93	434.11	0.944	0.2156
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS5	40	S040	607.882	4541.582	19.51	358	1.68	14.83	434.11	4.910	1.1210
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS6	100	S100	607.882	4541.582	22.86	358	0.61	20.34	362.44	6.620	1.5114
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS7	106	S106	607.882	4541.582	19.81	358	1.07	15.84	366.33	15.900	3.6301
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS8	131	S131	607.882	4541.582	18.90	358	1.07	18.40	385.22	10.000	2.2831
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS9	133	S133	607.882	4541.582	12.19	358	0.30	3.24	366.33	3.060	0.6986
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS10	153	S116	607.882	4541.582	13.72	358	0.76	10.70	334.67	1.700	0.3881
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS11	154	S154J	607.882	4541.582	21.33	358	0.30	7.64	366.33	1.029	0.2349
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS12	154	S154G	607.882	4541.582	18.90	358	0.30	7.64	349.67	0.343	0.0783
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS13	157	S157E	607.882	4541.582	18.29	358	0.40	5.36	533.00	0.064	0.0146
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS14	161	S161	607.882	4541.582	10.67	358	0.61	16.17	293.00	0.400	0.0913
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS15	162	S162C	607.882	4541.582	19.51	358	0.43	14.90	394.11	5.484	1.2521
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS16	162	S162A	607.882	4541.582	18.90	358	0.24	9.10	394.11	2.742	0.6261
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS17	162	S162E	607.882	4541.582	17.37	358	0.37	16.80	394.11	5.323	1.2153
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS18	163	S163	607.882	4541.582	11.89	358	0.39	4.97	307.44	1.640	0.3744
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS19	164	S164	607.882	4541.582	12.19	358	0.21	13.20	588.56	0.002	0.0005
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS20	166	S166	607.882	4541.582	13.41	358	0.30	2.90	355.22	0.290	0.0662
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS21	179	S179	607.882	4541.582	15.54	358	0.47	6.99	345.78	9.956	2.2730
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS22	180	S180	607.882	4541.582	7.92	358	0.43	18.35	526.89	0.830	0.1895
PA	Butler	NAPCO INC/VALENCIA	NAPC1	38	Z01	590.152	4508.723	12.19	320	0.01	0.00	295.22	0.096	0.0220
PA	Butler	NAPCO INC/VALENCIA	NAPC2	C01	S01	590.152	4508.723	16.15	320	1.01	26.30	966.33	0.207	0.0472
PA	Butler	PENRECO/KARNS CITY	PENR1	31	S01	607.229	4539.107	18.59	369	1.13	9.36	577.44	0.300	0.0685
PA	Butler	PENRECO/KARNS CITY	PENR2	32	S02	607.229	4539.107	19.51	369	1.22	13.22	549.67	28.600	6.5297
PA	Butler	PENRECO/KARNS CITY	PENR3	33	S03	607.229	4539.107	21.94	369	1.22	13.46	560.78	31.300	7.1461
PA	Butler	PENRECO/KARNS CITY	PENR4	35	S05	607.229	4539.107	17.37	369	0.70	4.65	810.78	0.300	0.0685
PA	Butler	PENRECO/KARNS CITY	PENR5	36	S06	607.229	4539.107	16.76	369	0.55	2.40	1144.11	0.200	0.0457
PA	Butler	PENRECO/KARNS CITY	PENR6	38	S08	607.229	4539.107	12.50	369	0.61	1.45	699.67	0.200	0.0457

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PA	Butler	PENRECO/KARNS CITY	PENR7	101	S04	607.229	4539.107	16.76	369	0.46	13.51	1144.11	2.700	0.6164
PA	Butler	PENRECO/KARNS CITY	PENR8	116	Z01	607.229	4539.107	30.48	369	0.01	0.00	295.22	0.500	0.1142
PA	Butler	PENRECO/KARNS CITY	PENR9	119	S19	607.229	4539.107	31.39	369	1.41	6.62	601.33	0.300	0.0685
PA	Butler	PENRECO/KARNS CITY	PENR10	120	Z20	607.229	4539.107	0.61	369	0.01	0.00	295.22	1.294	0.2955
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO1	102	S02	573.023	4525.853	5.79	391	0.01	0.00	295.22	0.002	0.0005
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO2	110	Z04	573.023	4525.853	0.61	391	0.01	0.00	295.22	0.005	0.0011
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA1	101	S01	577.712	4518.285	6.10	299	1.83	2.48	1144.11	4.750	1.0845
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA2	101	Z01	577.712	4518.285	0.61	299	0.01	0.00	295.22	4.750	1.0845
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV1	102	S101	575.000	4506.212	9.75	331	0.91	18.30	315.78	0.030	0.0068
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV2	111	S111A	575.000	4506.212	14.32	331	0.37	5.27	428.00	0.635	0.1450
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV3	111	S111	575.000	4506.212	14.02	331	1.37	10.73	293.00	0.635	0.1450
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV4	116	S116	575.000	4506.212	14.32	331	0.37	27.85	428.00	0.130	0.0297
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV5	116	Z116	575.000	4506.212	0.61	331	0.01	0.00	295.22	0.410	0.0936
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV6	118	S118	575.000	4506.212	10.97	331	0.59	5.45	313.56	0.008	0.0018
PA	Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS PWR S	ALLGAN	T 102	S02	599.485	4400.378	19.81	347	3.48	18.88	616.33	0.610	0.1393
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL1	101	S01	620.431	4427.412	30.48	287	1.52	8.28	699.67	37.645	8.5948
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL2	102	S02	620.431	4427.412	22.86	287	0.91	17.97	498.00	59.294	13.5374
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL3	106	S106	620.431	4427.412	21.03	287	1.47	10.02	322.44	5.342	1.2197
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL4	107	Z07	620.431	4427.412	18.29	287	0.01	0.00	295.22	1.361	0.3107
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL5	108	S08	620.431	4427.412	17.68	287	1.04	8.42	497.44	0.029	0.0066
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL6	109	S109	620.431	4427.412	11.28	287	0.61	9.70	588.56	0.038	0.0086
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL7	110	S110	620.431	4427.412	10.67	287	0.61	10.50	588.56	0.054	0.0123
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL8	111	S111	620.431	4427.412	9.14	287	0.91	1.44	588.56	0.027	0.0062
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	CROWN1	E 032	S032	621.438	4426.906	5.49	297	0.76	2.07	438.56	0.037	0.0084
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	CROWN2	E 033	S033	621.438	4426.906	3.66	297	0.55	3.00	438.56	0.016	0.0037
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	CROWN3	E 102	S102	621.438	4426.906	7.62	297	1.07	12.90	588.56	2.552	0.5826
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS1	32	S02	613.309	4412.415	10.67	335	0.30	0.65	492.44	0.016	0.0035
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS2	33	S03	613.309	4412.415	10.67	335	0.30	0.65	500.22	0.006	0.0013
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS3	102	S06	613.309	4412.415	9.14	335	0.49	20.86	632.44	0.276	0.0629
PA	Fayette	ONYX CHESTNUT VALLEY LANDFILL INC/J & L	ONYX	101	S01	602.494	4416.913	3.96	380	0.61	0.69	310.78	7.325	1.6724
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES1	101	S02	613.494	4421.310	16.76	329	0.64	2.20	533.00	0.003	0.0006
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES2	102	S01	613.494	4421.310	12.19	329	2.13	5.17	588.56	0.180	0.0411
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES3	103	S03	613.494	4421.310	12.19	329	1.60	16.22	640.22	0.270	0.0616
PA	Greene	CARNEGIE INTERSTATE /WAYNESBURG COMPR	CARINT	S 032	SO2	569.815	4416.045	8.23	289	0.44	17.46	668.56	0.390	0.0890
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR1	31	S31	591.225	4410.410	17.68	246	1.04	8.42	497.44	0.400	0.0913
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR2	111	Z11	591.225	4410.410	0.61	246	0.01	0.00	295.22	9.382	2.1421
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB1	101	S01	550.203	4424.915	31.39	392	2.32	9.74	393.00	56.991	13.0116
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB2	102	S02	550.203	4424.915	7.62	392	0.01	0.00	295.22	56.926	12.9968
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB3	106	Z06	550.203	4424.915	0.61	392	0.01	0.00	295.22	14.353	3.2769
PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR1	101	S01	572.662	4417.004	12.19	300	1.60	16.22	640.22	0.500	0.1142
PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR2	102	S02	572.662	4417.004	9.14	300	0.61	16.18	644.11	0.600	0.1370
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP1	37	S07	573.038	4417.863	6.10	300	0.30	6.47	644.11	0.020	0.0046
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP2	105	SO5	573.038	4417.863	8.23	300	0.44	17.46	668.56	0.130	0.0297
PA	Greene	KYOWA AMER CORP/WAYNESBURG PLT	KYOWA	31	S01	569.790	4418.820	6.10	315	0.46	3.36	449.67	0.097	0.0221
PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL1	109	SO9	546.844	4415.714	8.23	306	0.44	17.46	668.56	5.220	1.1918

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PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL2	118	S18	546.844	4415.714	13.11	306	1.83	27.10	751.89	0.970	0.2215
PA	Greene	TEXAS EASTERN TRANS /WAYNESBURG STA	TEXWA1	101	SO1	574.778	4419.189	12.19	336	1.60	16.22	640.22	0.170	0.0388
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX1	102	Z102	556.898	4525.467	4.57	255	0.01	0.00	295.22	0.014	0.0032
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX2	111	Z111	556.898	4525.467	29.87	255	0.01	0.00	295.22	0.424	0.0967
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX3	155	Z155	556.898	4525.467	1.22	255	0.01	0.00	295.22	2.395	0.5467
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX4	160	Z160	556.898	4525.467	0.91	255	0.01	0.00	295.22	6.671	1.5229
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX5	165	Z165	556.898	4525.467	23.16	255	0.01	0.00	295.22	2.120	0.4840
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX6	167	Z167	556.898	4525.467	3.66	255	0.01	0.00	295.22	6.494	1.4827
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX7	172	Z172	556.898	4525.467	3.05	255	0.01	0.00	295.22	3.939	0.8994
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX8	182	Z182	556.898	4525.467	4.27	255	0.01	0.00	295.22	0.374	0.0854
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX9	183	Z183	556.898	4525.467	24.38	255	0.01	0.00	295.22	0.826	0.1885
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX10	185	Z185	556.898	4525.467	0.61	255	0.01	0.00	295.22	2.480	0.5661
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX11	197	S197	556.898	4525.467	24.38	255	0.86	12.23	336.33	26.421	6.0322
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX12	198	S198	556.898	4525.467	13.11	255	0.70	9.78	299.67	3.684	0.8411
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX13	199	S199	556.898	4525.467	3.05	255	0.34	16.00	299.67	1.368	0.3124
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX14	200	S200	556.898	4525.467	14.93	255	0.34	16.00	294.11	1.368	0.3124
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX15	201	S201	556.898	4525.467	6.10	255	0.82	17.80	294.11	1.368	0.3124
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX16	202	S202	556.898	4525.467	21.33	255	0.34	16.00	299.67	1.368	0.3124
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX17	203	S203	556.898	4525.467	9.14	255	0.79	19.10	299.67	9.211	2.1029
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX18	204	S204	556.898	4525.467	8.53	255	0.98	15.80	299.67	11.526	2.6316
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX19	205	S205	556.898	4525.467	16.76	255	0.50	11.87	313.56	1.566	0.3575
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX20	206	S206	556.898	4525.467	22.25	255	0.58	21.50	299.67	6.963	1.5897
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX21	207	S207	556.898	4525.467	32.00	255	0.52	17.90	299.67	2.247	0.5131
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX22	208	S208	556.898	4525.467	13.72	255	0.61	13.80	299.67	4.171	0.9523
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX23	210	S210	556.898	4525.467	35.05	255	0.70	14.70	294.11	11.053	2.5234
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX24	211	S211	556.898	4525.467	35.05	255	0.70	12.20	294.11	4.632	1.0574
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX25	212	S212	556.898	4525.467	35.05	255	0.40	5.74	294.11	0.684	0.1562
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX26	215	S215	556.898	4525.467	15.54	255	1.19	14.50	294.11	47.053	10.7426
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX27	216	S216	556.898	4525.467	11.58	255	1.01	5.94	294.11	7.368	1.6823
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX28	217	S217	556.898	4525.467	10.97	255	0.27	16.00	294.11	0.947	0.2163
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX29	218	S218	556.898	4525.467	10.06	255	0.34	26.70	294.11	2.316	0.5287
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX30	220	S220	556.898	4525.467	16.76	255	0.34	16.00	299.67	1.368	0.3124
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX31	221	S221	556.898	4525.467	24.38	255	0.53	12.36	306.89	9.684	2.2110
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX32	225	S223	556.898	4525.467	18.90	255	2.74	16.40	408.00	6.750	1.5411
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX33	227	S226	556.898	4525.467	91.44	255	3.35	19.60	408.00	43.858	10.0133
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX34	234	S234	556.898	4525.467	23.47	255	0.92	13.92	344.67	38.947	8.8921
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX35	235	S235	556.898	4525.467	12.19	255	0.70	24.50	349.67	7.053	1.6102
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB1	101	S101	541.971	4541.031	9.14	325	1.22	26.28	294.11	2.655	0.6062
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB2	101	Z01	541.971	4541.031	0.61	325	0.01	0.00	295.22	0.295	0.0674
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF1	110	Z110	559.518	4523.534	0.61	278	0.01	0.00	295.22	1.543	0.3523
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF2	341	S341	559.518	4523.534	25.30	278	0.79	2.44	421.89	0.300	0.0685
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF3	500A	S500A	559.518	4523.534	11.58	278	0.91	5.17	477.44	0.300	0.0685
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF4	500B	S500B	559.518	4523.534	10.36	278	0.49	8.80	336.33	1.300	0.2968
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ1	T 033	S03	554.699	4537.917	25.91	240	0.76	4.85	560.78	0.130	0.0297
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ2	T 101	S01	554.699	4537.917	22.86	240	3.05	21.97	316.33	13.090	2.9886

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ3	T 102	S02	554.699	4537.917	30.48	240	2.44	14.68	550.78	0.315	0.0719
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ4	T 109A	S109	554.699	4537.917	17.68	240	1.07	10.92	400.78	2.421	0.5527
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ5	T 110	Z01	554.699	4537.917	0.61	240	0.01	0.00	295.22	12.504	2.8548
PA	Lawrence	ESSROC/BESSEMER	ESRC1	212	Z212	542.900	4536.052	9.14	340	0.01	0.00	295.22	0.287	0.0655
PA	Lawrence	ESSROC/BESSEMER	ESRC2	501	S501	542.900	4536.052	62.48	340	3.35	10.86	449.67	49.378	11.2735
PA	Lawrence	ESSROC/BESSEMER	ESRC3	502	S502	542.900	4536.052	60.96	340	4.63	7.14	477.44	69.137	15.7847
PA	Lawrence	ESSROC/BESSEMER	ESRC4	504	S503	542.900	4536.052	21.33	340	2.13	20.05	344.11	32.683	7.4618
PA	Lawrence	ESSROC/BESSEMER	ESRC5	511	S510	542.900	4536.052	21.94	340	0.61	9.90	294.11	1.075	0.2455
PA	Lawrence	ESSROC/BESSEMER	ESRC6	610	S610	542.900	4536.052	26.52	340	0.91	19.05	338.56	0.306	0.0698
PA	Lawrence	ESSROC/BESSEMER	ESRC7	611	S610B	542.900	4536.052	28.65	340	0.30	12.29	338.56	0.907	0.2070
PA	Lawrence	ESSROC/BESSEMER	ESRC8	611	S610A	542.900	4536.052	16.76	340	0.37	3.26	338.56	0.880	0.2009
PA	Lawrence	ESSROC/BESSEMER	ESRC9	612	S612	542.900	4536.052	21.64	340	0.86	18.82	354.67	2.646	0.6041
PA	Lawrence	ESSROC/BESSEMER	ESRC10	701	S701	542.900	4536.052	22.86	340	0.30	28.18	299.67	0.283	0.0646
PA	Lawrence	ESSROC/BESSEMER	ESRC11	704	S704	542.900	4536.052	41.76	340	0.30	25.24	338.56	1.437	0.3280
PA	Lawrence	ESSROC/BESSEMER	ESRC12	705	S705A	542.900	4536.052	41.76	340	0.30	23.25	338.56	2.945	0.6724
PA	Lawrence	ESSROC/BESSEMER	ESRC13	705	S705B	542.900	4536.052	16.76	340	0.50	11.87	313.56	2.945	0.6724
PA	Lawrence	ESSROC/BESSEMER	ESRC14	707	S707	542.900	4536.052	6.71	340	0.30	20.23	294.11	2.113	0.4825
PA	Lawrence	ESSROC/BESSEMER	ESRC15	708	S708	542.900	4536.052	9.14	340	0.30	20.23	294.11	1.057	0.2412
PA	Lawrence	ESSROC/BESSEMER	ESRC16	803	Z803	542.900	4536.052	0.61	340	0.01	0.00	295.22	19.458	4.4426
PA	Lawrence	FLOWLINE DIV MARKOVI/NEW CASTLE	FLWLN	114	S001	549.053	4540.775	0.61	309	0.30	6.38	490.78	0.120	0.0274
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC1	102	S102	560.995	4523.213	21.03	280	1.01	19.30	330.22	9.800	2.2374
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC2	103	S103	560.995	4523.213	22.25	280	1.46	21.90	346.89	2.244	0.5123
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC3	103	S103A	560.995	4523.213	21.94	280	3.05	11.00	402.44	1.156	0.2639
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC4	104	S104	560.995	4523.213	17.98	280	0.82	7.50	294.11	11.600	2.6484
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC5	105	Z105	560.995	4523.213	0.61	280	0.01	0.00	295.22	0.540	0.1233
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC6	107	S107	560.995	4523.213	10.36	280	0.49	8.80	336.33	1.060	0.2420
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG1	102	7F4	554.446	4537.982	7.31	244	0.91	0.10	355.22	0.576	0.1315
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG2	102	Z100	554.446	4537.982	0.61	244	0.01	0.00	295.22	0.324	0.0740
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG3	103	7F9	554.446	4537.982	3.96	244	0.91	0.37	355.22	0.200	0.0457
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF1	S 031	S10	567.699	4456.709	9.14	288	1.52	2.59	449.67	0.100	0.0228
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF2	S 103	S03	567.699	4456.709	4.27	288	0.91	8.35	294.11	0.254	0.0579
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF3	S 109	S09	567.699	4456.709	9.14	288	1.52	5.17	449.67	1.700	0.3881
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF4	S 111	S12	567.699	4456.709	8.84	288	0.72	13.64	303.00	0.050	0.0114
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF5	S 115	Z06	567.699	4456.709	0.61	288	0.01	0.00	295.22	2.700	0.6164
PA	Washington	ALLEGHENY LUDLUM COR/WASHINGTON FLATROL	ALLWA	L 109	Z01	561.999	4448.612	0.61	313	0.01	0.00	295.22	0.200	0.0457
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPR	CLMGD1	S 102	S02	548.183	4457.824	8.23	300	0.44	17.46	668.56	1.200	0.2740
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPR	CLMGD2	S 104	S04	548.183	4457.824	11.28	300	0.56	6.28	493.56	0.036	0.0082
PA	Washington	DOMINION PEOPLES/GIBSON STA	DOMGIB	101	S01	588.256	4444.277	7.62	322	0.27	3.99	632.44	0.100	0.0228
PA	Washington	DYNO NOBEL INC/DONORA	DYNO1	31	S031	597.479	4449.142	15.24	234	0.91	9.76	435.78	1.357	0.3097
PA	Washington	DYNO NOBEL INC/DONORA	DYNO2	35	S035A	597.479	4449.142	15.54	234	0.47	6.99	345.78	3.281	0.7491
PA	Washington	DYNO NOBEL INC/DONORA	DYNO3	101	S01	597.479	4449.142	32.61	234	1.16	23.27	469.67	0.355	0.0810
PA	Washington	DYNO NOBEL INC/DONORA	DYNO4	103	S02	597.479	4449.142	44.19	234	1.98	27.55	302.44	27.872	6.3634
PA	Washington	DYNO NOBEL INC/DONORA	DYNO5	105	S05	597.479	4449.142	9.14	234	0.64	14.90	305.22	1.472	0.3360
PA	Washington	DYNO NOBEL INC/DONORA	DYNO6	106	S033	597.479	4449.142	13.72	234	1.01	10.69	546.89	0.588	0.1343
PA	Washington	DYNO NOBEL INC/DONORA	DYNO7	108	Z211	597.479	4449.142	0.61	234	0.01	0.00	295.22	10.243	2.3387

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Washington	DYNO NOBEL INC/DONORA	DYNO8	109	Z03	597.479	4449.142	7.62	234	0.01	0.00	295.22	0.282	0.0645
PA	Washington	EQUITRANS INC/HARTSON	EQTRH1	103	S01	588.225	4456.399	10.67	316	0.46	21.60	477.44	0.100	0.0228
PA	Washington	EQUITRANS INC/HARTSON	EQTRH2	106	SO6	588.225	4456.399	4.88	316	0.46	0.86	533.00	0.010	0.0023
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN1	101	Z01	566.547	4463.825	0.61	310	0.01	0.00	295.22	0.060	0.0137
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN2	103	S03	566.547	4463.825	12.19	310	0.21	2.30	449.67	0.040	0.0091
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS1	33	S07	591.478	4448.378	12.50	232	0.59	6.38	490.78	0.600	0.1370
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS2	101	S06	591.478	4448.378	16.46	232	0.09	17.39	293.00	1.031	0.2355
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS3	103	S05	591.478	4448.378	34.14	232	0.91	3.35	923.00	0.200	0.0457
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP1	31	S031A	561.781	4447.222	6.10	318	0.30	14.57	493.56	0.100	0.0228
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP2	102	W03	561.781	4447.222	3.66	318	0.61	0.05	294.11	0.471	0.1076
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP3	110	W110G	561.781	4447.222	15.24	318	1.52	1.06	588.56	3.136	0.7160
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP4	126	Z01	561.781	4447.222	1.52	318	0.01	0.00	295.22	5.900	1.3470
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP5	130	S130A	561.781	4447.222	3.66	318	0.91	12.90	294.11	0.100	0.0228
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP6	160	S160	561.781	4447.222	17.37	318	0.87	7.80	550.78	0.144	0.0328
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP7	180	S180	561.781	4447.222	10.67	318	0.76	8.28	588.56	0.300	0.0685
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP8	210	Z05	561.781	4447.222	0.61	318	0.01	0.00	295.22	2.235	0.5102
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP9	220	Z220	561.781	4447.222	11.28	318	0.56	6.28	493.56	0.300	0.0685
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL1	105	S01	550.858	4468.276	153.31	369	2.44	3.60	323.56	3.400	0.7763
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL2	130	S02	550.858	4468.276	17.07	369	0.81	10.88	300.22	0.700	0.1598
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL3	131	S03	550.858	4468.276	12.19	369	0.61	4.24	366.33	1.100	0.2511
PA	Washington	PA DPW/WESTERN STATE SCH & HOSP	DPWWS	33	S03	570.698	4458.801	18.29	315	0.91	9.00	588.56	0.030	0.0068
PA	Washington	PA TRANSFORMER TECH /CANONSBURG	TRNTCH	36	SO6	570.553	4457.956	11.89	295	0.52	9.79	490.78	0.151	0.0344
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR1	106	S09	589.996	4451.213	10.06	227	0.56	12.70	395.78	3.967	0.9057
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR2	107	S01	589.996	4451.213	15.54	227	0.92	10.10	379.67	0.010	0.0023
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR3	110	S04	589.996	4451.213	13.72	227	0.69	15.07	317.44	0.200	0.0457
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR4	110	Z110	589.996	4451.213	0.61	227	0.01	0.00	295.22	0.130	0.0297
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC1	101	S01	550.382	4472.213	25.91	320	3.75	9.10	349.67	1.900	0.4338
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC2	102	S02	550.382	4472.213	17.68	320	1.07	10.92	400.78	5.090	1.1621
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC3	103	Z01	550.382	4472.213	12.19	320	0.01	0.00	295.22	1.020	0.2329
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC4	104	Z04	550.382	4472.213	0.61	320	0.01	0.00	295.22	1.350	0.3082
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC5	105	Z03	550.382	4472.213	24.08	320	1.34	6.64	471.33	0.390	0.0890
PA	Washington	USA WASTE SVC INC/USA SOUTH HILLS LDFL	USAWSH	I 104	Z05	586.001	4458.216	0.61	307	0.01	0.00	295.22	0.897	0.2047
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA1	38	S038	598.695	4438.189	11.28	233	0.82	16.41	421.89	0.240	0.0548
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA2	102	S102	598.695	4438.189	6.10	233	0.30	7.80	977.44	0.480	0.1096
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA3	103	S103	598.695	4438.189	17.37	233	0.87	7.80	550.78	0.070	0.0160
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA4	201	Z201	598.695	4438.189	0.61	233	0.01	0.00	295.22	8.430	1.9247
PA	Washington	WILLIAM H MARTIN INC/ARDEN LDFL	WILMAR	101	S01	562.566	4451.147	15.24	300	3.44	0.26	1088.56	5.127	1.1705
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH1	107	S05	594.082	4443.703	30.48	234	0.61	25.87	627.44	5.048	1.1525
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH2	107	S24	594.082	4443.703	24.38	234	0.86	12.21	447.44	9.799	2.2373
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH3	132	Z01	594.082	4443.703	0.61	234	0.01	0.00	295.22	3.724	0.8501
PA	Westmoreland	ALCOA INC/UPPER BURREL	ALCOA	31	S01	613.901	4490.207	10.67	392	0.30	0.65	497.44	0.397	0.0905
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV1	32	S032	620.711	4495.922	16.76	247	0.61	2.44	435.78	0.105	0.0240
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV2	103	S103	620.711	4495.922	21.33	247	1.52	17.46	321.89	12.478	2.8489
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV3	114	S114	620.711	4495.922	21.33	247	0.79	11.09	316.33	11.320	2.5844
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV4	115	Z115	620.711	4495.922	3.05	247	0.01	0.00	295.22	1.159	0.2645

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PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV5	120A	S120A	620.711	4495.922	15.24	247	1.83	0.05	810.78	0.200	0.0457
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV6	120B	S120B	620.711	4495.922	12.50	247	0.76	20.70	344.11	2.451	0.5595
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV7	120D	S120	620.711	4495.922	21.33	247	1.22	4.04	321.89	0.535	0.1221
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV8	121A	Z121A	620.711	4495.922	0.61	247	0.01	0.00	295.22	1.289	0.2942
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV9	121B	S121B	620.711	4495.922	4.88	247	1.01	15.12	810.78	0.261	0.0596
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV10	121D	S121	620.711	4495.922	18.29	247	0.61	5.82	321.89	0.382	0.0873
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV11	121E	S121E	620.711	4495.922	18.29	247	0.46	6.89	316.33	0.191	0.0436
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW1	32	S0312	617.435	4499.733	23.16	242	2.29	3.45	421.89	0.003	0.0008
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW2	33	S033	617.435	4499.733	13.11	242	1.07	15.84	421.89	0.150	0.0343
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW3	36	S036A	617.435	4499.733	16.76	242	0.61	0.49	493.56	0.032	0.0072
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW4	116	S116	617.435	4499.733	15.24	242	1.22	1.52	294.11	14.939	3.4106
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW5	118	S118F	617.435	4499.733	17.68	242	1.04	8.42	497.44	0.198	0.0452
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW6	118	S118E	617.435	4499.733	15.24	242	1.07	6.40	810.78	0.902	0.2059
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW7	128	Z128	617.435	4499.733	0.61	242	0.01	0.00	295.22	1.501	0.3426
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW8	129	S129	617.435	4499.733	15.24	242	0.46	28.65	321.89	1.816	0.4146
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW9	130	S1301	617.435	4499.733	25.91	242	1.07	15.85	303.56	0.316	0.0721
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW10	134	Z134	617.435	4499.733	6.10	242	0.01	0.00	295.22	0.072	0.0164
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW11	105C	S105C	617.435	4499.733	9.14	242	0.30	17.91	294.11	2.356	0.5380
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW12	105D	S105D	617.435	4499.733	18.29	242	0.40	13.78	338.56	0.096	0.0218
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW13	105E	S105E	617.435	4499.733	16.76	242	1.04	10.67	310.22	0.096	0.0218
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW14	112A	Z112A	617.435	4499.733	7.62	242	0.91	5.39	321.89	2.356	0.5380
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW15	112B	S112B	617.435	4499.733	15.24	242	0.46	21.64	321.89	0.096	0.0218
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW16	112C	Z112C	617.435	4499.733	3.05	242	0.01	0.00	295.22	0.016	0.0035
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW17	113A	S113A	617.435	4499.733	7.92	242	0.30	12.80	321.89	3.582	0.8177
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW18	113B	S113B	617.435	4499.733	15.24	242	0.61	12.13	321.89	0.096	0.0218
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW19	113D	S25C	617.435	4499.733	15.24	242	0.61	24.32	810.78	0.400	0.0913
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW20	115A	S27B	617.435	4499.733	18.29	242	0.91	7.25	810.78	0.119	0.0271
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW21	115B	S115B	617.435	4499.733	17.68	242	1.07	10.92	400.78	3.313	0.7563
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA1	101	S01	638.194	4465.266	7.62	311	1.77	21.60	310.22	1.548	0.3534
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA2	102	S02	638.194	4465.266	17.68	311	1.07	10.92	400.78	0.848	0.1937
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA3	103	Z03	638.194	4465.266	0.61	311	0.01	0.00	295.22	0.750	0.1712
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG1	101	S101	621.198	4449.907	53.34	370	1.22	24.08	574.67	2.169	0.4952
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG2	102	S102	621.198	4449.907	17.68	370	1.04	8.42	497.44	0.592	0.1351
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG3	105	S105	621.198	4449.907	23.16	370	0.61	0.76	477.44	0.120	0.0273
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG4	107	S107	621.198	4449.907	23.16	370	0.30	10.35	485.22	0.026	0.0060
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG5	110	S110	621.198	4449.907	11.28	370	0.54	6.31	500.22	0.167	0.0382
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG6	112	S112	621.198	4449.907	9.45	370	0.53	11.63	611.33	0.001	0.0002
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG7	113	S113	621.198	4449.907	20.73	370	1.16	7.50	485.22	0.054	0.0123
PA	Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	CHSRDG	32	S02	639.449	4465.423	22.86	313	0.67	1.34	394.11	0.027	0.0062
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP1	31	S031	624.894	4443.205	12.50	323	0.59	6.38	490.78	0.019	0.0044
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP2	105	S05	624.894	4443.205	7.92	323	0.37	21.26	293.00	0.006	0.0014
PA	Westmoreland	DOMINION PEOPLES/LATROBE STATION	DOMLA	101	S01	632.811	4463.038	8.23	326	0.44	17.46	668.56	0.123	0.0281
PA	Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	DOMLH	104	S04	617.340	4462.014	9.14	398	0.49	20.86	632.44	0.139	0.0318
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK1	32	S14	622.279	4473.474	9.75	347	0.61	9.66	505.22	0.085	0.0194
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK2	112	S12	622.279	4473.474	8.84	347	0.61	16.80	588.56	2.769	0.6321

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PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK3	114	S16	622.279	4473.474	4.57	347	0.49	20.40	421.89	0.032	0.0073
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK4	117	S20	622.279	4473.474	9.14	347	0.24	10.10	449.67	0.002	0.0005
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO1	31	S03	623.247	4471.435	6.40	381	0.30	0.72	449.67	0.003	0.0007
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO2	102	S02	623.247	4471.435	14.93	381	1.52	13.80	671.89	1.223	0.2791
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO3	103	S05	623.247	4471.435	10.97	381	0.62	20.58	639.67	0.003	0.0008
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO4	105	S04	623.247	4471.435	14.02	381	0.61	0.72	449.67	0.008	0.0017
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN1	31	S01	615.601	4479.974	11.28	319	0.56	6.28	493.56	0.002	0.0004
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN2	101	S03	615.601	4479.974	9.14	319	0.49	20.86	632.44	0.001	0.0002
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN3	102	S02	615.601	4479.974	8.23	319	0.44	17.46	668.56	0.668	0.1525
PA	Westmoreland	DURA BOND IND INC/EXPORT STEEL PLT	DRBND	101SA	S01	616.426	4475.990	9.14	301	0.30	0.65	294.11	14.662	3.3476
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY1	105	S05	620.501	4439.714	9.45	319	0.61	11.68	304.11	0.126	0.0287
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY2	109	S09	620.501	4439.714	7.92	319	0.69	14.18	302.44	0.367	0.0838
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY3	110	Z110	620.501	4439.714	0.61	319	0.01	0.00	295.22	6.092	1.3908
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY4	111	S111	620.501	4439.714	12.50	319	0.59	6.38	490.78	0.096	0.0219
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ1	31	S02	618.000	4466.011	20.73	312	0.91	12.60	1088.56	0.004	0.0008
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ2	33	S04	618.000	4466.011	13.11	312	1.52	10.19	1088.56	0.001	0.0003
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ3	34	Z03	618.000	4466.011	10.67	312	0.01	0.00	295.22	0.859	0.1962
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ4	35	S14	618.000	4466.011	10.67	312	0.30	0.65	497.44	0.012	0.0026
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ5	36	S03	618.000	4466.011	20.73	312	0.91	22.00	1088.56	0.535	0.1221
PA	Westmoreland	EQUITRANS INC/SLEEPY HOLLOW COMPRESSOR	EQTNSL	S 101	S01	623.743	4469.112	8.23	385	0.44	17.46	668.56	0.006	0.0013
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC1	104	S02	620.497	4442.612	15.24	335	3.23	9.25	1088.56	0.481	0.1098
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC2	106	Z06	620.497	4442.612	0.61	335	0.01	0.00	295.22	24.428	5.5772
PA	Westmoreland	HUNTINGTON FOAM PITT/MT PLEASANT	HUNTFM	31	S031	618.999	4445.209	20.73	377	1.16	7.50	485.22	0.039	0.0088
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM1	32	S11	593.794	4446.286	38.40	235	1.74	7.29	435.78	2.650	0.6050
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM2	801	Z05	593.794	4446.286	10.67	235	0.01	0.00	295.22	0.088	0.0201
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM3	802	S02	593.794	4446.286	30.48	235	1.52	0.65	388.56	2.527	0.5770
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM4	803	S05	593.794	4446.286	18.29	235	4.57	2.68	366.33	7.810	1.7831
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM5	805	S06	593.794	4446.286	79.55	235	2.44	7.96	588.56	11.480	2.6210
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM6	806	Z07	593.794	4446.286	7.62	235	0.01	0.00	295.22	11.107	2.5359
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM7	807	Z08	593.794	4446.286	9.14	235	0.01	0.00	295.22	0.141	0.0322
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM8	809	S09	593.794	4446.286	121.91	235	0.61	4.04	449.67	2.770	0.6324
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM9	810	Z10	593.794	4446.286	0.61	235	0.01	0.00	295.22	3.542	0.8087
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP1	31	S031	636.598	4464.715	33.53	308	1.10	3.23	533.00	0.112	0.0256
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP2	102	S102	636.598	4464.715	11.89	308	0.89	22.23	598.00	0.010	0.0023
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW1	31	S31	636.897	4464.610	17.68	297	1.04	8.42	497.44	0.248	0.0566
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW2	101	S01	636.897	4464.610	10.67	297	0.76	8.05	348.56	0.127	0.0289
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM1	31	S03	629.653	4487.833	10.67	258	0.30	0.65	699.67	0.726	0.1658
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM2	101	S01	629.653	4487.833	12.19	258	1.22	0.04	294.11	0.418	0.0954
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM3	101	Z01	629.653	4487.833	9.14	258	0.01	0.00	295.22	0.141	0.0321
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM4	102	S04	629.653	4487.833	10.67	258	0.30	0.65	338.00	17.590	4.0159
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM5	103	Z103	629.653	4487.833	0.61	258	0.01	0.00	295.22	14.985	3.4213
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM6	104	S06	629.653	4487.833	10.67	258	0.30	0.65	493.56	0.002	0.0005
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM7	105	S07	629.653	4487.833	10.67	258	0.30	0.65	304.11	0.044	0.0101
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM8	106	S08	629.653	4487.833	10.67	258	0.30	0.65	294.11	0.292	0.0666
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM9	107	S09	629.653	4487.833	15.85	258	1.01	14.90	303.00	0.180	0.0411

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PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA1	35	S05	617.368	4464.580	13.72	299	0.61	0.81	497.44	0.006	0.0013
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA2	36	S06	617.368	4464.580	17.68	299	1.04	8.42	497.44	0.079	0.0180
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA3	221	E1	617.368	4464.580	10.97	299	0.91	5.87	313.00	1.743	0.3979
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR1	31	S01	647.783	4473.367	19.81	343	1.52	15.04	449.67	0.319	0.0729
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR2	32	S02	647.783	4473.367	76.20	343	3.66	4.97	421.89	2.665	0.6084
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR3	101	S101	647.783	4473.367	8.23	343	0.44	8.71	498.00	0.002	0.0005
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR4	102	S102	647.783	4473.367	8.53	343	0.38	22.38	603.56	0.010	0.0023
PA	Westmoreland	POLY HI SOLIDUR INC/DELMONT PLT	POLYHI	31	S01	621.009	4475.918	17.68	363	1.04	8.42	497.44	0.124	0.0282
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR1	102	Z01	613.805	4446.672	7.62	292	0.01	0.00	295.22	0.372	0.0849
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR2	104	S02	613.805	4446.672	10.67	292	0.91	8.62	500.22	0.060	0.0136
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY1	32	S032	621.146	4449.462	12.19	356	0.61	12.93	608.00	0.130	0.0297
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY2	34	S034	621.146	4449.462	13.11	356	0.76	11.64	491.33	0.820	0.1872
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY3	47	S047	621.146	4449.462	12.50	356	0.76	6.74	477.44	0.240	0.0548
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY4	51	S051	621.146	4449.462	10.67	356	0.15	3.39	490.78	0.016	0.0036
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY5	52	S052	621.146	4449.462	10.67	356	0.15	2.59	490.78	0.013	0.0031
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY6	107	S107	621.146	4449.462	21.33	356	0.70	9.17	310.78	0.727	0.1659
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY7	108	S108	621.146	4449.462	10.67	356	0.30	4.53	294.11	0.647	0.1477
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY8	109	S109	621.146	4449.462	10.67	356	0.15	3.91	294.11	0.019	0.0044
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY9	110	S110	621.146	4449.462	10.67	356	0.30	6.47	294.11	0.010	0.0022
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY10	119	S119	621.146	4449.462	9.14	356	0.30	12.94	366.33	0.038	0.0086
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY11	123	S037	621.146	4449.462	9.45	356	0.30	6.47	500.22	0.036	0.0082
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY12	126	S049	621.146	4449.462	11.28	356	0.54	6.31	500.22	0.026	0.0059
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY13	127	S040	621.146	4449.462	12.19	356	1.22	1.25	399.67	0.190	0.0434
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY14	128	S041	621.146	4449.462	13.11	356	0.61	5.14	399.67	0.090	0.0205
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY15	130	S043	621.146	4449.462	12.80	356	0.43	5.83	490.78	0.097	0.0221
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY16	132	S048	621.146	4449.462	12.19	356	0.55	17.70	477.44	0.150	0.0342
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY17	135	S122	621.146	4449.462	15.24	356	0.30	29.11	294.11	0.009	0.0021
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY18	137	S124	621.146	4449.462	18.29	356	0.46	28.75	305.22	0.019	0.0043
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY19	138	S125	621.146	4449.462	9.45	356	0.50	7.79	324.67	0.001	0.0002
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY20	139	S126	621.146	4449.462	10.67	356	0.76	7.24	490.78	0.001	0.0003
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY21	141	S123	621.146	4449.462	15.24	356	1.07	14.26	294.11	0.232	0.0530
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY22	142	S128	621.146	4449.462	13.72	356	0.46	6.90	299.67	0.009	0.0021
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY23	143	Z143	621.146	4449.462	1.52	356	0.01	0.00	295.22	0.010	0.0023
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY24	144	S144	621.146	4449.462	10.67	356	0.15	20.70	421.89	0.004	0.0009
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY25	145	S145	621.146	4449.462	12.19	356	0.55	13.58	465.22	0.006	0.0014
PA	Westmoreland	ST GEORGE CRYSTAL LTD/JEANNETTE	STGCRS	101	S01	618.600	4465.110	15.24	309	0.61	11.32	477.44	0.856	0.1955
PA	Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	STVNCT	31	S031	636.295	4461.712	17.68	344	1.04	8.42	497.44	1.398	0.3191
PA	Westmoreland	STD STEEL/LATROBE	STDSL1	33	S04	637.621	4463.157	60.96	311	3.05	0.85	435.78	0.520	0.1187
PA	Westmoreland	STD STEEL/LATROBE	STDSL2	101	S01	637.621	4463.157	25.91	311	3.75	9.10	349.67	4.962	1.1329
PA	Westmoreland	STD STEEL/LATROBE	STDSL3	102	Z01	637.621	4463.157	12.19	311	0.01	0.00	295.22	0.466	0.1065
PA	Westmoreland	STD STEEL/LATROBE	STDSL4	103	S03	637.621	4463.157	4.57	311	0.91	20.48	338.56	0.020	0.0045
PA	Westmoreland	STD STEEL/LATROBE	STDSL5	104	S10	637.621	4463.157	8.84	311	0.72	13.64	303.00	0.001	0.0002
PA	Westmoreland	STD STEEL/LATROBE	STDSL6	105	Z05	637.621	4463.157	0.61	311	0.01	0.00	295.22	0.340	0.0776
PA	Westmoreland	STD STEEL/LATROBE	STDSL7	107	S07	637.621	4463.157	10.36	311	0.48	4.93	369.11	0.080	0.0183
PA	Westmoreland	STD STEEL/LATROBE	STDSL8	109	S09	637.621	4463.157	11.28	311	0.56	6.28	493.56	0.398	0.0908

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Westmoreland	SUMMERILL TUBE CORP/SCOTTDALE PLT	SUMMRL	103	S103	620.674	4440.616	17.68	313	1.04	8.42	497.44	0.014	0.0032
PA	Westmoreland	SUNOCO PARTNERS M&T/DELMONT FACILITY	SUNDEL	101	S03	620.935	4476.317	7.62	391	1.00	3.33	418.56	0.033	0.0076
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL1	109	S09	624.145	4499.565	17.07	388	0.37	23.88	788.56	1.023	0.2336
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL2	113	S13	624.145	4499.565	8.23	388	0.44	17.46	668.56	1.117	0.2551
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL3	118	S118	624.145	4499.565	12.19	388	1.60	16.22	640.22	1.150	0.2626
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN1	31	S31	638.479	4462.729	12.19	313	1.52	2.59	497.44	0.281	0.0642
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN2	43	S43	638.479	4462.729	11.28	313	0.56	6.28	493.56	0.160	0.0365
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN3	101	S56	638.479	4462.729	22.86	313	3.05	29.11	366.33	2.864	0.6538
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN4	102	S03	638.479	4462.729	15.24	313	1.95	24.16	310.78	2.611	0.5961
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN5	104	S04	638.479	4462.729	17.68	313	1.07	10.92	400.78	0.018	0.0041
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN6	105	S05	638.479	4462.729	14.02	313	0.46	2.87	294.11	0.075	0.0172
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN7	107	S07	638.479	4462.729	3.35	313	0.61	12.94	294.11	0.200	0.0457
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN8	109	S09	638.479	4462.729	10.36	313	0.61	10.50	294.11	0.933	0.2130
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN9	110	S10	638.479	4462.729	9.14	313	1.52	0.97	310.78	0.034	0.0077
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN10	111	S11	638.479	4462.729	14.02	313	0.61	16.20	294.11	0.037	0.0085
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN11	112	Z12	638.479	4462.729	3.05	313	0.01	0.00	295.22	0.192	0.0437
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN12	114	S55	638.479	4462.729	9.75	313	0.76	12.42	294.11	0.001	0.0003
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN13	130	S50	638.479	4462.729	3.66	313	0.30	2.59	477.44	1.574	0.3593
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN14	131	S42	638.479	4462.729	15.54	313	0.88	9.95	453.00	0.773	0.1765
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN15	132	S51	638.479	4462.729	18.29	313	1.01	0.12	477.44	0.520	0.1187
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN16	137	S54	638.479	4462.729	9.14	313	0.37	18.87	294.11	0.487	0.1113
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN17	140	Z140	638.479	4462.729	0.61	313	0.01	0.00	295.22	3.699	0.8445
PA	Westmoreland	USA VALLEY FAC INC/VALLEY LDFL	USAVAL	102	Z01	612.520	4471.689	0.61	360	0.01	0.00	295.22	2.321	0.5298
PA	Westmoreland	WESTMORELAND WASTE LLC/SANITARY LDFL	WESWST	101	S01	597.397	4444.311	4.57	286	0.91	0.86	366.33	0.479	0.1092
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA1	101	S101	636.798	4462.609	10.36	309	0.58	4.46	511.33	0.189	0.0430
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA2	102	S102	636.798	4462.609	13.72	309	0.77	9.73	358.00	3.582	0.8177
Ohio Sources (w/o EGUs)														
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART1	B001	5	524.378	4438.785	16.15	210	1.22	40.42	477.44	0.030	0.0068
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART2	B010	6	524.377	4438.896	6.40	210	0.46	8.62	477.44	0.060	0.0137
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART3	F001	F001	524.122	4438.895	38.71	210	1.43	7.19	430.78	0.031	0.0071
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART4	F001	F001	524.122	4438.895	36.88	210	1.19	5.58	401.89	0.022	0.0050
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART5	P902	7	524.377	4438.896	21.33	210	0.91	14.37	327.44	0.920	0.2100
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART6	P903	8	524.377	4438.896	24.38	210	0.91	14.37	327.44	1.540	0.3516
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE1	B002	2	533.645	4463.129	42.67	209	3.05	6.06	449.67	9.780	2.2329
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE2	B004	4	533.645	4463.129	42.67	209	3.05	6.06	544.11	9.990	2.2808
OH	Jefferson	TITANIUM METALS CORPORATION	TITN1	B010	19	532.989	4477.112	10.36	216	0.56	4.79	463.56	0.080	0.0183
OH	Jefferson	TITANIUM METALS CORPORATION	TITN2	P003	9	533.242	4477.335	18.29	216	1.42	9.77	299.67	1.640	0.3744
OH	Jefferson	TITANIUM METALS CORPORATION	TITN3	P004	12	533.159	4477.112	8.84	216	1.24	19.52	296.89	2.980	0.6804
OH	Jefferson	TITANIUM METALS CORPORATION	TITN4	P020	3	533.158	4477.334	27.43	216	1.38	1.05	1088.56	0.010	0.0023
OH	Jefferson	TITANIUM METALS CORPORATION	TITN5	P037	7	532.989	4477.001	22.25	216	0.49	6.70	310.78	3.920	0.8950
OH	Jefferson	TITANIUM METALS CORPORATION	TITN6	P039	17	532.988	4477.334	16.46	216	1.22	16.17	296.89	0.760	0.1735
OH	Jefferson	TITANIUM METALS CORPORATION	TITN7	P041	6	533.074	4477.001	11.58	216	1.22	18.19	310.78	13.240	3.0228
OH	Jefferson	TITANIUM METALS CORPORATION	TITN8	P044	1	533.242	4477.446	16.15	216	0.91	10.30	294.11	0.070	0.0160
OH	Jefferson	TITANIUM METALS CORPORATION	TITN9	P046	4	533.158	4477.334	22.86	216	1.38	1.05	1088.56	0.010	0.0023
OH	Jefferson	TITANIUM METALS CORPORATION	TITN10	P050	8	532.989	4477.112	19.81	216	1.01	11.66	310.78	7.620	1.7397

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
OH	Jefferson	TITANIUM METALS CORPORATION	TITN11	P051	5	533.158	4477.223	22.86	216	1.38	2.09	1088.56	0.020	0.0046
OH	Jefferson	TITANIUM METALS CORPORATION	TITN12	P054	10	533.157	4477.445	5.18	216	0.84	14.79	303.00	0.230	0.0525
OH	Jefferson	TITANIUM METALS CORPORATION	TITN13	P057	11	533.158	4477.334	5.18	216	0.84	24.66	300.22	0.510	0.1164
OH	Jefferson	TITANIUM METALS CORPORATION	TITN14	P067	20	533.242	4477.446	9.14	216	0.84	21.23	302.44	1.290	0.2945
OH	Jefferson	TITANIUM METALS CORPORATION	TITN15	P074	16	533.158	4477.223	19.81	216	1.37	8.59	1588.56	0.240	0.0548
OH	Jefferson	TITANIUM METALS CORPORATION	TITN16	Z093	1	533.242	4477.446	19.81	216	1.13	8.20	294.11	0.080	0.0183
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING1	F005	35	533.732	4462.685	20.12	209	1.29	18.78	283.00	1.940	0.4429
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING2	F006	6	533.986	4463.019	29.26	209	2.01	11.03	283.00	0.860	0.1963
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING3	F009	38	533.647	4462.685	9.14	209	2.75	18.44	410.78	9.030	2.0616
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING4	F010	F010	533.986	4463.019	30.78	209	2.96	10.61	412.44	5.060	1.1553
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING5	F101	F101	533.986	4463.019	36.88	209	1.19	5.58	401.89	3.144	0.7178
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING6	F104	6	533.986	4463.019	49.38	209	3.93	3.99	283.00	6.320	1.4429
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING7	P008	42	533.393	4462.461	56.99	209	3.96	2.18	783.00	9.850	2.2489
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING8	P013	3	533.986	4463.019	19.81	209	1.13	8.20	294.11	0.360	0.0822
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING9	P903	25	533.645	4463.129	71.32	209	3.05	8.55	574.67	47.070	10.7466
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING10	P907	37	533.732	4462.796	19.20	209	1.75	17.54	377.44	13.230	3.0205
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING11	P908	39	533.563	4462.573	19.20	209	1.52	10.35	310.78	1.640	0.3744
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING12	X002	36	533.563	4462.573	53.95	209	3.96	9.94	324.67	143.880	32.8493
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING13	Z002	43	533.732	4462.685	53.64	209	1.52	24.58	1088.56	0.800	0.1826
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING14	Z020	6	533.986	4463.019	41.76	209	2.04	9.97	283.00	0.510	0.1164
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING15	Z021	6	533.986	4463.019	17.37	209	4.54	10.55	283.00	0.370	0.0845
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB1	B105	8	532.697	4466.232	77.42	203	3.43	1.74	588.56	7.880	1.7991
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB2	B108	11	532.697	4466.232	35.66	203	2.44	7.39	505.22	35.800	8.1735
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB3	B152	12	532.612	4466.232	10.67	203	1.52	10.10	588.56	0.200	0.0457
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB4	P911	13	532.697	4466.232	55.78	203	1.83	19.42	574.67	28.650	6.5411
			West Virginia Sources (w/o EGUs)											
WV	Brooke	BALL METAL FOOD CONTAINER CORP.	BALMFC	C00	1	531.912	4471.113	12.19	224	1.31	6.16	653.00	1.400	0.3196
WV	Brooke	BROOKE COUNTY LANDFILL	BROOK	1	NONSTK	535.821	4470.132	3.05	333	0.00	0.00	295.22	9.160	2.0913
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN1	4	4	532.168	4470.781	8.23	222	0.76	6.10	449.67	0.031	0.0071
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN2	7	7	532.168	4470.781	16.76	222	1.37	8.99	588.56	0.805	0.1838
WV	Brooke	IMPRESS USA, INC	IMPRS1	3	4	531.824	4471.779	10.97	223	0.46	7.09	449.67	0.560	0.1279
WV	Brooke	IMPRESS USA, INC	IMPRS2	12	9	531.824	4471.779	7.31	223	0.20	9.94	255.22	0.060	0.0137
WV	Brooke	IMPRESS USA, INC	IMPRS3	18	13	531.824	4471.779	12.50	223	0.51	5.57	449.67	0.200	0.0457
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF1	770	770	533.459	4466.680	0.30	218	0.30	6.38	294.11	0.028	0.0064
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF2	771	771	533.459	4466.680	9.14	218	0.91	21.33	294.11	0.069	0.0158
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF3	773	773	533.459	4466.680	14.93	218	4.72	0.14	755.22	0.204	0.0466
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF4	774	774	533.459	4466.680	18.29	218	0.46	0.09	1366.33	0.064	0.0146
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF5	831	831	533.459	4466.680	30.48	218	3.05	0.03	560.78	2.680	0.6119
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF6	881	881	533.459	4466.680	23.47	218	0.79	7.16	605.22	0.204	0.0466
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF7	992	992	533.459	4466.680	30.48	218	3.05	0.03	533.00	1.520	0.3470
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF8	993	993	533.459	4466.680	24.38	218	3.05	0.03	533.00	1.320	0.3014
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF9	995	995	533.459	4466.680	24.99	218	1.37	22.07	449.67	4.680	1.0685
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF10	LRF	NONSTK	533.459	4466.680	3.05	218	0.00	0.00	295.22	0.243	0.0555
WV	Brooke	NESTLE PURINA PETCARE COMPANY	NESTL	1	1	532.167	4471.114	12.19	223	0.61	8.53	728.56	0.843	0.1925
WV	Brooke	ROLL COATER, INC.	ROLL1	04S	4	534.035	4470.900	17.68	210	2.58	9.75	1088.56	1.520	0.3470

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
WV	Brooke	ROLL COATER, INC.	ROLL2	07S	7	534.035	4470.900	17.68	210	0.46	16.67	294.11	1.160	0.2648
WV	Brooke	ROLL COATER, INC.	ROLL3	08S	NONSTK	534.035	4470.900	3.05	210	0.00	0.00	295.22	31.590	7.2123
WV	Brooke	UNITED STATES CAN COMPANY	USCAN1	2	14	532.082	4471.003	10.67	223	0.91	3.96	421.89	0.893	0.2039
WV	Brooke	UNITED STATES CAN COMPANY	USCAN2	5	NONSTK	532.082	4471.003	3.05	223	0.00	0.00	295.22	0.062	0.0142
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR1	2	7	528.842	4452.675	12.80	203	0.30	6.28	449.67	0.036	0.0082
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR2	3	4	528.842	4452.675	13.72	203	0.61	7.92	435.78	0.320	0.0731
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR3	6	NONSTK	528.842	4452.675	3.05	203	0.00	0.00	295.22	14.500	3.3105
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR4	8	8	528.842	4452.675	18.29	203	1.37	13.56	533.00	0.360	0.0822
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR5	8	9	528.842	4452.675	12.80	203	0.30	11.89	449.67	0.040	0.0091
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB1	2	2	533.377	4466.013	60.96	206	2.28	5.06	583.00	9.580	2.1872
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB4	3	7	533.377	4466.013	24.99	206	9.20	0.88	394.11	17.180	3.9224
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB3	3	5	533.377	4466.013	13.11	206	0.70	23.19	333.00	16.830	3.8425
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB2	3	3	533.377	4466.013	60.96	206	2.44	5.00	588.56	4.860	1.1096
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB8	4	NONSTK	533.377	4466.013	3.05	206	0.00	0.00	295.22	70.048	15.9927
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB6	4	6	533.377	4466.013	18.29	206	2.28	13.41	318.00	32.300	7.3744
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB7	4	8	533.377	4466.013	22.86	206	11.30	0.88	394.11	29.690	6.7785
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB5	4	4	533.377	4466.013	76.20	206	3.96	8.32	596.89	26.850	6.1301
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB9	17	11	533.377	4466.013	60.96	206	2.74	10.09	450.78	6.060	1.3836
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB10	19	12	533.377	4466.013	6.10	206	0.61	8.42	568.00	1.000	0.2283
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB11	21	15	533.377	4466.013	24.38	206	0.51	10.45	316.33	14.160	3.2329
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB12	24	14	533.377	4466.013	63.40	206	5.67	19.99	1273.00	5.340	1.2192
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN1	1	1	530.962	4495.418	38.10	205	0.91	14.32	633.00	1.070	0.2443
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN2	1	2	530.962	4495.418	38.10	205	1.07	4.88	744.11	0.403	0.0920
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN3	2	3	530.962	4495.418	38.10	205	0.61	3.57	775.78	0.062	0.0142
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN4	4	7	530.962	4495.418	41.15	205	1.68	6.16	714.11	1.050	0.2397
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN5	5	8	530.962	4495.418	38.10	205	1.98	1.95	490.22	0.759	0.1733
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN6	5	9	530.962	4495.418	30.48	205	0.76	3.57	539.67	0.046	0.0105
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN7	6	10	530.962	4495.418	41.15	205	0.76	3.57	539.67	0.124	0.0283
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN8	7	5	530.962	4495.418	45.72	205	1.83	11.58	466.89	7.376	1.6840
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN9	14	16	530.962	4495.418	10.67	205	2.44	3.26	1033.00	0.029	0.0066
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN10	26	21	530.962	4495.418	4.57	205	0.05	1.01	421.89	0.013	0.0030
WV	Hancock	ISG WEIRTON	ISG1	26	920	533.678	4474.673	76.20	224	3.35	4.57	559.67	1033.910	236.0525
WV	Hancock	ISG WEIRTON	ISG2	26	950	533.678	4474.673	3.05	224	0.00	0.00	295.22	820.348	187.2942
WV	Hancock	ISG WEIRTON	ISG3	26	951	533.678	4474.673	45.72	224	3.51	4.08	324.11	4.710	1.0753
WV	Hancock	ISG WEIRTON	ISG4	29	923	533.678	4474.673	60.96	224	3.35	3.05	559.67	867.968	198.1662
WV	Hancock	ISG WEIRTON	ISG5	30	927	533.678	4474.673	60.96	224	5.18	6.40	335.78	3648.380	832.9635
WV	Hancock	ISG WEIRTON	ISG8	30	932	533.678	4474.673	17.07	224	1.52	8.53	310.78	18.320	4.1826
WV	Hancock	ISG WEIRTON	ISG6	30	930	533.678	4474.673	27.74	224	2.59	13.41	408.00	0.650	0.1484
WV	Hancock	ISG WEIRTON	ISG7	30	931	533.678	4474.673	73.15	224	0.49	16.76	366.33	0.320	0.0731
WV	Hancock	ISG WEIRTON	ISG9	34	101	533.678	4474.673	76.20	224	3.66	10.67	885.78	29.280	6.6849
WV	Hancock	ISG WEIRTON	ISG10	57	301	533.678	4474.673	12.80	224	1.22	7.01	579.67	2.140	0.4886
WV	Hancock	ISG WEIRTON	ISG11	89	405	533.678	4474.673	52.42	224	3.05	15.85	487.44	6.878	1.5703
WV	Hancock	ISG WEIRTON	ISG12	90	406	533.678	4474.673	63.09	224	4.88	8.23	313.00	11.048	2.5224
WV	Hancock	ISG WEIRTON	ISG13	91	407	533.678	4474.673	54.86	224	3.35	17.98	455.22	19.058	4.3511
WV	Hancock	ISG WEIRTON	ISG14	92	408	533.678	4474.673	68.58	224	3.05	2.44	505.22	24.236	5.5333

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL2	1	13	532.902	4496.870	8.53	222	0.61	2.59	294.11	0.080	0.0183
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL1	1	1	532.902	4496.870	17.37	222	0.31	5.18	294.11	0.031	0.0071
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL6	3	10	532.902	4496.870	14.02	222	0.91	0.64	449.67	0.434	0.0991
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL3	3	2	532.902	4496.870	11.89	222	0.61	0.49	449.67	0.232	0.0530
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL9	3	47	532.902	4496.870	13.72	222	0.91	2.59	449.67	0.124	0.0283
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL8	3	44	532.902	4496.870	13.41	222	0.91	0.64	449.67	0.108	0.0247
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL4	3	5	532.902	4496.870	12.80	222	0.61	0.55	449.67	0.062	0.0142
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL5	3	7	532.902	4496.870	13.11	222	0.46	0.12	449.67	0.014	0.0032
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL7	3	43	532.902	4496.870	9.45	222	0.91	0.09	449.67	0.003	0.0007
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL16	4	49	532.902	4496.870	13.72	222	0.30	1.01	324.67	0.015	0.0034
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL13	4	19	532.902	4496.870	13.41	222	0.30	1.01	324.67	0.014	0.0032
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL12	4	17	532.902	4496.870	13.72	222	0.15	0.43	324.67	0.008	0.0018
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL14	4	33	532.902	4496.870	9.75	222	0.13	0.18	324.67	0.005	0.0011
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL10	4	15	532.902	4496.870	12.80	222	0.30	0.21	324.67	0.003	0.0007
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL15	4	42	532.902	4496.870	10.97	222	0.24	0.94	324.67	0.003	0.0007
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL11	4	16	532.902	4496.870	9.75	222	0.15	0.40	324.67	0.003	0.0007
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL25	5	50	532.902	4496.870	12.80	222	0.40	12.74	294.11	8.986	2.0516
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL17	5	20	532.902	4496.870	11.28	222	0.61	4.88	294.11	7.620	1.7397
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL24	5	46	532.902	4496.870	11.28	222	0.61	4.88	294.11	6.010	1.3721
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL18	5	22	532.902	4496.870	12.80	222	0.40	12.01	294.11	5.370	1.2260
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL19	5	23	532.902	4496.870	12.50	222	0.41	8.75	294.11	4.070	0.9292
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL20	5	24	532.902	4496.870	13.41	222	0.41	30.94	294.11	0.778	0.1776
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL21	5	25	532.902	4496.870	11.28	222	0.61	13.75	294.11	0.546	0.1247
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL26	5	51	532.902	4496.870	7.62	222	0.36	4.02	294.11	0.168	0.0384
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL22	5	26	532.902	4496.870	14.32	222	0.41	9.11	294.11	0.039	0.0089
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL23	5	27	532.902	4496.870	13.41	222	0.41	9.11	294.11	0.026	0.0059
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL27	7	30	532.902	4496.870	10.36	222	0.15	0.88	294.11	0.402	0.0918
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL28	7	31	532.902	4496.870	10.06	222	0.61	0.98	294.11	0.280	0.0639
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL29	10	NONSTK	532.902	4496.870	3.05	222	0.00	0.00	295.22	2.128	0.4858
WV	Marshall	BAYER CORPORATION	BAYR1	12	14	514.656	4396.473	3.05	195	0.40	11.61	294.11	0.202	0.0461
WV	Marshall	BAYER CORPORATION	BAYR2	13	149	514.656	4396.473	25.60	195	0.25	3.81	294.11	0.058	0.0132
WV	Marshall	BAYER CORPORATION	BAYR3	22	5	514.656	4396.473	15.24	195	1.83	13.81	431.89	0.740	0.1689
WV	Marshall	BAYER CORPORATION	BAYR19	28	123	514.656	4396.473	40.23	195	1.01	15.64	383.56	2.190	0.5000
WV	Marshall	BAYER CORPORATION	BAYR15	28	116	514.656	4396.473	39.32	195	0.89	7.50	523.00	0.863	0.1970
WV	Marshall	BAYER CORPORATION	BAYR16	28	117	514.656	4396.473	29.26	195	0.65	12.80	423.00	0.687	0.1568
WV	Marshall	BAYER CORPORATION	BAYR11	28	112	514.656	4396.473	32.92	195	0.51	15.36	288.56	0.366	0.0836
WV	Marshall	BAYER CORPORATION	BAYR4	28	104	514.656	4396.473	28.35	195	0.55	1.55	288.56	0.260	0.0594
WV	Marshall	BAYER CORPORATION	BAYR18	28	122	514.656	4396.473	40.23	195	0.30	9.08	323.00	0.250	0.0571
WV	Marshall	BAYER CORPORATION	BAYR14	28	115	514.656	4396.473	39.32	195	0.69	3.57	373.00	0.190	0.0434
WV	Marshall	BAYER CORPORATION	BAYR12	28	113	514.656	4396.473	29.26	195	0.37	15.36	288.56	0.190	0.0434
WV	Marshall	BAYER CORPORATION	BAYR9	28	110	514.656	4396.473	32.92	195	0.49	17.65	288.56	0.177	0.0404
WV	Marshall	BAYER CORPORATION	BAYR21	28	NONSTK	514.656	4396.473	3.05	195	0.00	0.00	295.22	0.166	0.0379
WV	Marshall	BAYER CORPORATION	BAYR10	28	111	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.154	0.0352
WV	Marshall	BAYER CORPORATION	BAYR5	28	105	514.656	4396.473	33.53	195	0.40	14.48	294.11	0.107	0.0244
WV	Marshall	BAYER CORPORATION	BAYR7	28	108	514.656	4396.473	32.92	195	0.46	16.92	288.56	0.107	0.0244

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WV	Marshall	BAYER CORPORATION	BAYR13	28	114	514.656	4396.473	39.32	195	0.69	3.57	423.00	0.095	0.0217
WV	Marshall	BAYER CORPORATION	BAYR6	28	106	514.656	4396.473	32.92	195	0.37	15.24	288.56	0.095	0.0217
WV	Marshall	BAYER CORPORATION	BAYR8	28	109	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.095	0.0217
WV	Marshall	BAYER CORPORATION	BAYR17	28	118	514.656	4396.473	32.00	195	0.41	15.03	334.11	0.083	0.0189
WV	Marshall	BAYER CORPORATION	BAYR20	28	125	514.656	4396.473	27.13	195	0.25	10.42	293.00	0.080	0.0183
WV	Marshall	BAYER CORPORATION	BAYR22	11C	41	514.656	4396.473	30.48	195	0.46	27.43	327.44	0.300	0.0685
WV	Marshall	BAYER CORPORATION	BAYR23	22A	6	514.656	4396.473	15.24	195	1.83	8.63	453.00	0.470	0.1073
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA1	1	25	530.320	4401.846	7.31	234	0.46	8.29	449.67	0.080	0.0183
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA2	4	4	530.320	4401.846	10.06	234	0.46	21.73	644.11	1.370	0.3128
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA3	6	6	530.320	4401.846	10.97	234	0.70	21.09	644.11	2.028	0.4630
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA4	19	12	530.320	4401.846	6.10	234	0.10	5.56	810.78	0.031	0.0071
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA5	22	23	530.320	4401.846	4.57	234	0.30	5.36	449.67	0.040	0.0091
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM1	4	4	540.909	4423.761	0.61	259	0.61	2.96	449.67	0.040	0.0091
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM2	19	14	540.909	4423.761	6.10	259	0.05	5.56	810.78	0.062	0.0142
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM3	22	21	540.909	4423.761	6.71	259	0.30	19.63	588.56	0.306	0.0699
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC1	1	1	515.324	4405.464	60.96	194	1.28	25.08	477.44	52.000	11.8721
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC2	4	4	515.324	4405.464	39.62	194	1.22	0.73	463.56	0.039	0.0089
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC3	6	6	515.324	4405.464	24.38	194	0.36	17.59	338.56	1.410	0.3219
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC4	7	7	515.324	4405.464	21.03	194	0.30	5.82	305.22	3.620	0.8265
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC5	8	8	515.324	4405.464	28.04	194	0.30	16.31	338.56	2.210	0.5046
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC6	10	10	515.324	4405.464	21.33	194	0.23	13.11	296.89	3.650	0.8333
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC7	11	11	515.324	4405.464	21.64	194	0.66	2.26	296.89	1.330	0.3037
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC8	12	12	515.324	4405.464	28.95	194	0.61	16.18	449.67	2.210	0.5046
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC9	13	13	515.324	4405.464	21.33	194	0.56	19.32	449.67	1.440	0.3288
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC10	15	15	515.324	4405.464	24.08	194	0.56	19.32	449.67	14.540	3.3196
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC11	17	17	515.324	4405.464	18.29	194	0.36	6.52	338.56	14.540	3.3196
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC12	18	18	515.324	4405.464	23.77	194	0.30	17.07	296.89	9.120	2.0822
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC13	19	19	515.324	4405.464	7.62	194	0.61	11.43	644.11	0.200	0.0457
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC14	21	21	515.324	4405.464	23.47	194	0.76	1.16	463.56	0.042	0.0096
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC15	32	22	515.324	4405.464	7.62	194	0.51	21.00	644.11	0.024	0.0055
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC16	01A	2	515.324	4405.464	60.96	194	1.49	8.66	588.56	0.028	0.0064
WV	Marshall	PPG INDUSTRIES, INC.	PPG1	2	77	513.624	4398.580	68.58	195	4.88	6.71	441.33	2.761	0.6304
WV	Marshall	PPG INDUSTRIES, INC.	PPG2	3	78	513.624	4398.580	90.83	195	2.74	24.38	445.78	2.460	0.5616
WV	Marshall	PPG INDUSTRIES, INC.	PPG3	4	79	513.624	4398.580	30.48	195	0.20	0.18	1399.67	0.013	0.0030
WV	Marshall	PPG INDUSTRIES, INC.	PPG4	15	86	513.624	4398.580	30.48	195	0.91	2.80	505.22	0.880	0.2009
WV	Marshall	PPG INDUSTRIES, INC.	PPG5	16	87	513.624	4398.580	30.48	195	0.30	1.89	1477.44	0.001	0.0002
WV	Marshall	PPG INDUSTRIES, INC.	PPG6	17	88	513.624	4398.580	19.81	195	0.25	38.10	1477.44	0.001	0.0001
WV	Marshall	PPG INDUSTRIES, INC.	PPG7	18	89	513.624	4398.580	49.38	195	1.37	1.46	533.00	0.360	0.0822
WV	Marshall	PPG INDUSTRIES, INC.	PPG8	19	90	513.624	4398.580	11.89	195	0.46	0.09	699.67	0.080	0.0183
WV	Marshall	PPG INDUSTRIES, INC.	PPG9	34	91	513.624	4398.580	10.67	195	0.05	35.05	1477.44	0.001	0.0002
WV	Marshall	PPG INDUSTRIES, INC.	PPG10	36	92	513.624	4398.580	30.48	195	0.76	10.27	685.78	0.124	0.0283
WV	Marshall	PPG INDUSTRIES, INC.	PPG11	46	NONSTK	513.624	4398.580	3.05	195	0.00	0.00	295.22	17.840	4.0731
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC1	K01	1	515.487	4409.682	57.91	200	3.81	19.54	1219.11	195.482	44.6306
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC2	K02	2	515.487	4409.682	57.91	200	3.81	22.19	1252.44	279.555	63.8253
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC4	L16	27	515.487	4409.682	3.66	200	0.48	10.06	288.56	0.069	0.0158

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WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC3	L16	5	515.487	4409.682	9.14	200	0.25	9.14	288.56	0.038	0.0087
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC5	P03	6	515.487	4409.682	36.27	200	1.52	21.00	469.67	66.150	15.1027
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC6	P03	13	515.487	4409.682	32.00	200	1.22	0.61	471.89	0.188	0.0429
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC9	P04	8	515.487	4409.682	10.97	200	0.45	12.19	310.78	0.608	0.1388
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC8	P04	7	515.487	4409.682	15.24	200	0.45	17.07	310.78	0.539	0.1231
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC11	P04	23	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.510	0.1164
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC7	P04	4	515.487	4409.682	5.79	200	0.55	18.29	288.56	0.312	0.0712
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC15	P04	32	515.487	4409.682	76.50	200	0.33	19.51	299.67	0.296	0.0676
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC14	P04	31	515.487	4409.682	32.31	200	0.33	19.81	299.67	0.284	0.0648
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC10	P04	18	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.255	0.0582
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC12	P04	24	515.487	4409.682	37.49	200	0.24	11.58	288.56	0.255	0.0582
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC13	P04	26	515.487	4409.682	10.97	200	0.58	5.49	288.56	0.026	0.0059
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC18	P05	20	515.487	4409.682	17.68	200	0.30	16.15	288.56	0.069	0.0158
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC17	P05	12	515.487	4409.682	18.59	200	0.34	10.06	288.56	0.041	0.0094
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC19	P05	22	515.487	4409.682	3.96	200	0.27	13.11	288.56	0.014	0.0032
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC16	P05	9	515.487	4409.682	9.45	200	0.49	19.20	288.56	0.011	0.0025
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC20	P06	3	515.487	4409.682	5.79	200	0.70	20.73	288.56	1.038	0.2370
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC21	P06	15	515.487	4409.682	29.87	200	0.30	5.49	288.56	0.124	0.0283
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC22	P06	16	515.487	4409.682	29.87	200	0.30	3.05	288.56	0.069	0.0158
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC23	P06	17	515.487	4409.682	28.04	200	0.30	3.05	288.56	0.056	0.0128
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC24	U11	21	515.487	4409.682	28.35	200	0.22	19.81	288.56	0.325	0.0742
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC25	U13	NONSTK	515.487	4409.682	3.05	200	0.00	0.00	295.22	17.595	4.0171
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL1	5	998	560.001	4396.138	0.30	309	0.30	3.78	255.22	4.931	1.1258
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL2	8	8	560.001	4396.138	27.43	309	2.44	14.32	324.11	11.910	2.7192
WV	Ohio	SHORT CREEK LANDFILL	SHRTCR	1	NONSTK	530.663	4444.246	3.05	331	0.00	0.00	295.22	2.420	0.5525
				EGUs										
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	AES1	N 034	S04	554.452	4500.526	68.58	241	2.38	14.93	441.49	77.456	17.6839
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	AES2	N 035	S05	554.452	4500.526	68.58	241	1.46	19.65	441.49	4.936	1.1268
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST1	W 032	S04	629.178	4532.009	307.22	255	4.45	23.38	449.27	17.600	4.0183
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST2	W 102	Z02	629.178	4532.009	0.61	255	0.01	0.00	295.38	65.520	14.9589
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF1	R 032	S01	591.802	4412.271	134.41	262	5.24	19.91	423.16	235.000	53.6530
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF2	R FDE	Z107	591.802	4412.271	0.61	262	0.01	0.00	295.38	106.000	24.2009
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL2	E 033	S01	587.739	4452.830	58.82	228	4.27	7.92	463.72	0.060	0.0137
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL1	E 034	S04	587.739	4452.830	114.29	228	6.10	19.20	423.16	40.700	9.2922
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL3	E 035	S05	587.739	4452.830	45.72	228	1.07	6.98	469.27	0.010	0.0023
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL4	E 102	Z02	587.739	4452.830	0.61	228	0.01	0.00	295.38	16.900	3.8584
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD1	B001	5	529.913	4452.890	251.45	203	6.71	2.70	447.05	90.770	20.7237
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD2	B002	7	529.843	4455.565	251.45	203	6.71	2.54	447.05	112.140	25.6027
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD3	B004	6	529.913	4452.890	40.54	203	1.52	30.48	616.49	0.010	0.0023
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD4	B008	8	529.913	4452.890	21.33	203	1.83	41.14	614.83	0.130	0.0297
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD5	B009	9	529.913	4452.890	274.31	203	7.31	3.09	430.38	18.180	4.1507
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD6	F001	F001	529.910	4455.809	38.71	203	1.43	7.19	430.94	0.030	0.0068
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD7	F001	F001	529.910	4455.809	36.88	203	1.19	5.58	402.05	0.007	0.0015
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD8	F003	F003	529.910	4455.809	21.33	203	1.13	11.34	319.27	6.330	1.4452
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER1	32	S02	652.765	4486.326	243.83	366	7.31	26.03	427.60	616.117	140.6659

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER2	33	S04	652.765	4486.326	260.29	366	8.23	19.14	441.49	84.549	19.3034
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER3	104	Z104	652.765	4486.326	0.61	366	0.01	0.00	295.38	69.412	15.8474
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART1	2	2	592.901	4394.989	167.63	245	7.16	23.47	415.94	68.248	15.5817
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART2	3	3	592.901	4394.989	67.05	245	2.01	7.98	569.27	0.093	0.0212
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART3	4	NONSTK	592.901	4394.989	3.05	245	0.00	0.00	295.38	215.621	49.2285
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM1	1	13	515.493	4410.692	274.31	194	7.01	29.87	427.60	51.005	11.6449
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM2	4	NONSTK	515.493	4410.692	3.05	194	0.00	0.00	295.38	4.400	1.0046
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT1	2	12	515.993	4409.184	365.74	194	10.06	32.92	428.72	116.899	26.6893
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT2	3	1	515.993	4409.184	65.22	194	2.13	36.57	658.72	0.000	0.0000
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT3	4	NONSTK	515.993	4409.184	3.05	194	0.00	0.00	295.38	5.100	1.1644
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA1	35	T01	553.211	4532.067	122.22	243	4.86	19.34	441.49	11.000	2.5114
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA2	37	S07	553.211	4532.067	9.45	243	0.53	11.63	611.49	0.036	0.0081
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA3	103	Z03	553.211	4532.067	0.61	243	0.01	0.00	295.38	9.467	2.1614
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES1	1	1	602.379	4488.086	228.89	232	6.40	32.00	414.27	583.860	133.3013
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES2	3	2	602.455	4488.109	60.96	232	0.60	28.01	629.83	0.040	0.0091
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES3	6	9999	602.296	4487.985	16.46	232	0.46	9.54	295.38	0.661	0.1509
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES4	7	9999	602.296	4487.985	10.06	232	0.79	16.22	295.38	0.980	0.2236
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES5	7	9999	602.296	4487.985	15.24	232	1.07	3.14	295.38	2.739	0.6254
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES6	10	9999	602.296	4487.985	28.95	232	0.52	9.85	295.38	1.245	0.2843
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES7	12	9999	602.296	4487.985	17.07	232	0.70	16.49	295.38	0.701	0.1601
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM1	34	S01	592.001	4456.411	119.48	233	7.92	15.07	423.16	202.800	46.3014
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM2	102	Z102	592.001	4456.411	0.61	233	0.01	0.00	295.38	15.400	3.5160
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM1	32	S04	549.048	4498.335	289.55	241	5.85	22.90	453.16	51.592	11.7790
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM2	33	S06	549.048	4498.335	182.87	241	5.85	22.90	453.16	43.566	9.9466
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM3	101	Z01	549.048	4498.335	0.61	241	0.01	0.00	295.38	12.235	2.7934
OH	Belmont	R. E. BURGER PLANT	BURG1	B001	2	520.403	4417.496	6.10	194	1.07	10.70	575.94	0.000	0.0000
OH	Belmont	R. E. BURGER PLANT	BURG2	B009	1	520.497	4417.496	259.07	194	6.55	18.90	398.72	0.000	0.0000
OH	Belmont	R. E. BURGER PLANT	BURG3	F001	F001	517.097	4416.678	36.88	194	1.19	5.58	402.05	2.617	0.5974
OH	Belmont	R. E. BURGER PLANT	BURG4	F002	F002	517.097	4416.678	38.71	194	1.43	7.19	430.94	1.340	0.3058
OH	Belmont	R. E. BURGER PLANT	BURG5	F003	F003	517.097	4416.678	23.16	194	1.04	10.55	322.05	4.200	0.9589
OH	Belmont	R. E. BURGER PLANT	BURG6	P901	5	517.097	4416.678	18.90	194	0.70	15.58	337.60	1.900	0.4338
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST1	32	S02	640.174	4502.359	243.83	310	8.20	29.72	429.83	448.450	102.3858
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST2	37	S07	640.174	4502.359	83.82	310	2.13	15.86	616.49	0.553	0.1262
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST3	104	S06	640.174	4502.359	5.49	310	1.22	9.54	699.83	0.680	0.1553
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST4	106	F10	640.174	4502.359	0.61	310	0.01	0.00	295.38	75.600	17.2603
OH	Jefferson	W. H. SAMMIS PLANT	SAMM1	B004	44	531.236	4486.761	304.79	209	8.14	17.07	380.94	0.000	0.0000
OH	Jefferson	W. H. SAMMIS PLANT	SAMM2	B006	6	531.100	4486.705	6.10	209	1.04	13.77	669.83	0.170	0.0388
OH	Jefferson	W. H. SAMMIS PLANT	SAMM3	B007	7	531.100	4486.805	153.61	209	6.40	156.90	422.05	0.000	0.0000
OH	Jefferson	W. H. SAMMIS PLANT	SAMM4	B011	10	531.101	4486.605	134.41	209	8.15	14.37	413.72	0.000	0.0000
OH	Jefferson	W. H. SAMMIS PLANT	SAMM5	B013	9	531.202	4486.606	259.07	209	9.50	16.27	412.05	0.000	0.0000
OH	Jefferson	W. H. SAMMIS PLANT	SAMM6	F001	F001	531.236	4486.584	38.71	209	1.43	7.19	430.94	0.396	0.0904
OH	Jefferson	W. H. SAMMIS PLANT	SAMM7	F001	F001	531.236	4486.584	36.88	209	1.19	5.58	402.05	14.516	3.3141
OH	Jefferson	W. H. SAMMIS PLANT	SAMM8	F005	1	531.236	4486.584	16.76	209	0.43	4.11	307.05	79.800	18.2192
OH	Jefferson	W. H. SAMMIS PLANT	SAMM9	F006	F006	531.236	4486.584	23.16	209	1.04	10.55	322.05	2.000	0.4566
OH	Jefferson	W. H. SAMMIS PLANT	SAMM10	F007	F007	531.236	4486.584	26.21	209	0.79	8.32	308.72	0.500	0.1142

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Pennsylvania Sources (w/o EGUs)														
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN1	102	SO6	640.162	4500.738	7.62	425	0.61	13.58	533.00	0.034	0.0078
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN2	204	SO4	640.162	4500.738	17.37	425	3.49	18.82	663.00	17.982	4.1056
PA	Armstrong	DLR MINING INC/TRIPLE K #1 DEEP MINE	DLRMIN	101	S01	629.518	4503.354	8.53	256	0.38	22.38	603.56	0.218	0.0497
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR1	102	S02	638.919	4499.837	10.36	325	0.30	27.00	688.56	0.621	0.1418
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR2	103	S03	638.919	4499.837	10.06	325	0.30	22.90	533.00	0.207	0.0473
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR3	104	S04	638.919	4499.837	9.14	325	0.49	20.86	633.00	0.518	0.1182
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL1	32	S32	637.874	4516.864	7.31	331	0.21	24.40	810.78	0.108	0.0247
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL2	101	S01	637.874	4516.864	9.45	331	0.30	26.70	666.33	0.311	0.0709
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL3	104	S04	637.874	4516.864	9.14	331	0.49	20.86	633.00	0.627	0.1431
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL4	105	S05	637.874	4516.864	9.45	331	0.30	23.10	560.78	0.207	0.0473
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB1	101	S01	638.919	4499.837	7.92	325	0.52	28.90	588.56	0.257	0.0587
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB2	103	S03	638.919	4499.837	7.92	325	0.52	27.30	588.56	0.207	0.0473
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB3	104	S04	638.919	4499.837	7.92	325	0.52	26.80	588.56	0.207	0.0473
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB4	105	S05	638.919	4499.837	7.92	325	0.52	27.60	588.56	0.104	0.0236
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB5	106	S06	638.919	4499.837	7.92	325	0.52	26.00	588.56	0.104	0.0236
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB6	114	S09	638.919	4499.837	7.92	325	0.61	1.62	449.67	0.108	0.0247
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR1	101	S01	624.097	4515.065	7.62	238	0.76	28.61	385.78	0.239	0.0545
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR2	102	S12	624.097	4515.065	17.98	238	0.46	1.76	560.78	0.070	0.0159
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR3	102	S11	624.097	4515.065	17.07	238	0.46	1.76	560.78	0.135	0.0308
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR4	103	S03	624.097	4515.065	21.64	238	0.76	1.53	560.78	0.159	0.0363
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR5	106	S06	624.097	4515.065	9.45	238	0.61	1.92	560.78	0.410	0.0935
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR6	107	S07	624.097	4515.065	8.53	238	0.61	2.04	560.78	0.148	0.0337
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR7	108	S08	624.097	4515.065	8.84	238	0.61	1.67	560.78	0.137	0.0312
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR8	109	S13	624.097	4515.065	10.06	238	0.91	0.26	560.78	0.068	0.0156
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR9	110	S15	624.097	4515.065	13.11	238	1.22	0.21	560.78	0.205	0.0467
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR10	111	S17	624.097	4515.065	14.32	238	1.22	0.31	560.78	0.114	0.0260
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR11	114	S20	624.097	4515.065	7.62	238	0.46	21.56	294.11	9.949	2.2715
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR12	115	S21	624.097	4515.065	8.23	238	0.61	12.13	294.11	4.422	1.0095
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR13	116	S22	624.097	4515.065	10.97	238	0.30	19.40	294.11	1.714	0.3912
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR14	119	S26	624.097	4515.065	10.67	238	0.73	10.26	324.67	11.088	2.5314
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR15	119	S27	624.097	4515.065	8.53	238	0.46	14.37	294.11	2.255	0.5149
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR16	120	Z01	624.097	4515.065	0.61	238	1.04	14.20	295.22	0.400	0.0914
PA	Armstrong	EQUITABLE GAS CO/SHOEMAKER	EQSHM	102	S02	622.399	4512.627	5.49	245	0.61	21.61	621.89	0.359	0.0820
PA	Armstrong	EQUITABLE GAS CO/VILLAGE STATION	EQVIL	101	S01	639.997	4516.215	8.23	420	0.44	17.46	669.11	0.056	0.0128
PA	Armstrong	EQUITRANS INC/ATWOOD BOOSTER STA 16	EQTNAT	101	S01	646.099	4513.257	6.10	254	0.91	2.60	533.00	0.281	0.0642
PA	Armstrong	EQUITRANS INC/CROOKED CREEK COMPRES S	EQTNCC	102	S02	623.998	4508.412	6.10	254	0.91	2.60	533.00	0.703	0.1605
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP1	101	S02	610.750	4504.472	10.97	239	0.94	26.59	483.00	0.688	0.1570
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP2	104	Z01	610.750	4504.472	7.62	239	0.70	15.12	295.22	0.054	0.0123
PA	Armstrong	KEYSTONE COAL MINING/KEYSTONE	KEYCO	106	Z05	639.689	4502.517	22.86	305	1.13	11.34	295.22	9.658	2.2050
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR1	31	S05	628.861	4532.747	12.50	430	0.59	6.38	491.33	0.031	0.0071
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR2	101	S02	628.861	4532.747	13.11	430	1.10	13.79	456.33	0.265	0.0606
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR3	105	S04	628.861	4532.747	9.45	430	0.77	8.66	565.78	0.238	0.0544
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR4	107	S06	628.861	4532.747	12.50	430	0.67	17.22	308.00	0.111	0.0253

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PA	Armstrong	NATL FUEL GAS SUPPLY/KAYLOR STA	NATFG	101	S01	616.437	4533.506	8.23	401	0.44	17.46	669.11	0.065	0.0148
PA	Armstrong	VISTA METALS/KITTANNING PLT	VISTA	101	Z01	621.796	4518.958	6.10	359	0.64	8.72	295.22	0.127	0.0290
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH1	102	Z04	560.718	4504.582	0.61	226	0.55	5.49	295.22	2.706	0.6179
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH2	103	S02	560.718	4504.582	30.48	226	1.52	1.32	699.67	51.266	11.7045
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH3	105	Z02	560.718	4504.582	12.19	226	1.04	14.20	295.22	0.139	0.0318
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH4	105	Z02	560.718	4504.582	12.19	226	0.94	11.64	295.22	0.424	0.0967
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH5	108	S108	560.718	4504.582	15.85	226	0.69	10.52	335.78	0.793	0.1810
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH6	109	S03	560.718	4504.582	30.48	226	1.52	8.97	473.56	0.154	0.0351
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH7	110	S01	560.718	4504.582	11.28	226	0.54	6.31	500.78	0.127	0.0289
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH8	115	S19	560.718	4504.582	17.68	226	0.98	11.38	466.33	0.054	0.0123
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW1	33	P15	557.038	4511.680	18.29	237	0.70	7.94	421.89	0.216	0.0494
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW2	106	S06	557.038	4511.680	12.50	237	0.72	7.17	314.67	12.271	2.8015
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW3	134	Z01	557.038	4511.680	0.61	237	0.43	6.55	295.22	0.216	0.0494
PA	Beaver	BASF CORP/MONACA PLT	BASFM1	CD002	S01	555.301	4501.276	12.19	227	0.09	1.44	294.11	0.059	0.0134
PA	Beaver	BASF CORP/MONACA PLT	BASFM2	CD003	SO2	555.301	4501.276	12.19	227	1.98	8.28	1060.78	0.007	0.0015
PA	Beaver	CENTRIA/CENTRIA	CNTRA	101	S04	567.555	4508.227	26.21	231	0.76	1.03	477.44	0.134	0.0305
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM1	32	S02	557.395	4504.911	14.93	236	1.43	4.47	449.67	0.207	0.0473
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM2	33	S03	557.395	4504.911	14.93	236	0.61	24.68	449.67	0.104	0.0236
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM3	104	S04	557.395	4504.911	9.75	236	0.71	7.16	325.78	0.043	0.0098
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL1	125	S01	548.126	4517.856	8.23	277	0.98	12.73	538.56	2.185	0.4988
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL2	132	S05	548.126	4517.856	13.11	277	1.10	13.79	456.33	0.726	0.1658
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB1	36	S06	563.302	4513.740	9.45	330	0.61	12.94	505.22	0.012	0.0027
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB2	104	S04	563.302	4513.740	15.85	330	0.91	7.19	644.11	3.003	0.6856
PA	Beaver	ENGINEERED POLYMER S/ROCHESTER	ENGPL	101	S01	561.882	4514.961	10.36	361	1.06	7.93	390.78	2.048	0.4676
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS1	207	S02	556.078	4502.403	31.39	238	2.22	3.64	320.22	0.504	0.1151
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS2	210	S03	556.078	4502.403	30.48	238	0.55	16.40	294.11	0.517	0.1180
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS3	400	S04	556.078	4502.403	18.29	238	1.83	5.39	311.33	0.882	0.2015
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS4	401	U01	556.078	4502.403	121.91	238	5.39	12.00	365.22	8.674	1.9803
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS5	403	X01	556.078	4502.403	15.24	238	0.30	5.98	294.11	0.024	0.0055
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS6	404	S05	556.078	4502.403	34.14	238	1.52	7.76	366.33	1.513	0.3453
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS7	501	W13	556.078	4502.403	19.20	238	0.40	15.10	338.56	0.144	0.0328
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS8	501	W15	556.078	4502.403	19.20	238	0.40	6.58	338.56	0.064	0.0147
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS9	506	U03	556.078	4502.403	60.96	238	3.35	12.10	344.11	3.075	0.7019
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS10	506	U02	556.078	4502.403	36.88	238	2.13	16.50	352.44	2.569	0.5865
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS11	506	S11	556.078	4502.403	31.70	238	2.07	14.00	321.89	11.453	2.6149
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS12	506	S13	556.078	4502.403	31.70	238	2.07	19.60	349.67	3.883	0.8864
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS13	508	S07	556.078	4502.403	31.09	238	1.83	17.30	294.11	3.015	0.6884
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS14	703	S20	556.078	4502.403	16.46	238	0.58	17.90	294.11	0.378	0.0863
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS15	705	S19	556.078	4502.403	12.80	238	0.79	6.22	294.11	0.504	0.1151
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS16	706	S51	556.078	4502.403	13.72	238	1.43	14.60	294.11	2.017	0.4605
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS17	800	S24	556.078	4502.403	22.86	238	1.07	18.50	471.89	0.645	0.1474
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS18	800	S25	556.078	4502.403	22.86	238	1.68	8.06	394.11	0.645	0.1474
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS19	800	S26	556.078	4502.403	22.86	238	1.22	14.20	355.22	0.645	0.1474
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS20	801	S37	556.078	4502.403	21.94	238	0.91	28.80	394.11	1.679	0.3834

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PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS21	801	S33	556.078	4502.403	20.73	238	1.23	19.90	370.78	0.827	0.1888
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS22	801	S31	556.078	4502.403	14.63	238	1.31	25.30	394.11	1.492	0.3407
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS23	801	S32	556.078	4502.403	12.80	238	1.31	25.30	394.11	0.746	0.1704
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS24	802	S22	556.078	4502.403	19.20	238	0.55	14.80	294.11	0.189	0.0432
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS25	802	S23	556.078	4502.403	7.92	238	0.46	7.19	338.56	0.063	0.0144
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS26	904	S10	556.078	4502.403	18.29	238	1.01	17.80	294.11	1.929	0.4403
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS27	904	X08	556.078	4502.403	13.41	238	0.30	23.50	294.11	0.340	0.0777
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS28	905	S08	556.078	4502.403	18.29	238	0.91	11.20	294.11	0.378	0.0863
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS29	906	S12	556.078	4502.403	19.51	238	1.52	9.06	394.11	1.008	0.2302
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL1	40	S040	545.577	4498.790	14.02	233	0.91	13.03	438.56	0.747	0.1704
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL2	50	S05	545.577	4498.790	11.28	233	0.56	6.28	494.11	0.023	0.0053
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL3	106	S106	545.577	4498.790	25.91	233	3.74	9.10	350.22	7.125	1.6267
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL4	137	Z137	545.577	4498.790	4.57	233	0.91	10.93	294.11	1.084	0.2476
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL5	138	S138C	545.577	4498.790	17.37	233	0.86	7.80	551.33	0.707	0.1614
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL6	202	S202	545.577	4498.790	17.68	233	1.07	10.92	400.78	15.302	3.4935
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL7	205	S205	545.577	4498.790	17.37	233	0.90	5.79	316.89	5.494	1.2544
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL8	209	S209	545.577	4498.790	17.68	233	1.04	8.42	497.44	0.736	0.1680
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA1	101	S01	557.457	4520.775	38.10	238	3.29	0.17	699.67	0.555	0.1268
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA2	102	S02	557.457	4520.775	16.46	238	1.22	0.04	755.22	0.335	0.0766
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA3	103	S03	557.457	4520.775	17.37	238	0.86	7.80	551.33	0.346	0.0789
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA4	104	S04	557.457	4520.775	17.68	238	0.98	11.38	466.33	0.262	0.0598
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA5	105	S05	557.457	4520.775	17.68	238	1.07	10.92	400.78	0.168	0.0383
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA6	106	S06	557.457	4520.775	19.51	238	0.61	10.92	755.22	0.026	0.0060
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA7	110	S09	557.457	4520.775	11.28	238	0.54	6.31	500.78	23.067	5.2664
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK1	33	S03	557.466	4520.731	16.46	277	1.22	4.29	755.22	0.203	0.0464
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK2	102	S02	557.466	4520.731	16.46	277	1.22	3.10	755.22	0.073	0.0168
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK3	109	S05	557.466	4520.731	30.48	277	3.05	17.43	338.56	0.365	0.0834
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK4	121	S17	557.466	4520.731	14.32	277	0.63	9.04	321.33	0.472	0.1077
PA	Beaver	NGC IND/SHIPPINGPORT	NGC1	100	S100	549.334	4497.294	9.14	240	0.61	16.17	449.67	3.278	0.7484
PA	Beaver	NGC IND/SHIPPINGPORT	NGC2	109	S09	549.334	4497.294	17.68	240	0.98	11.38	466.33	2.964	0.6768
PA	Beaver	NGC IND/SHIPPINGPORT	NGC3	110	Z10	549.334	4497.294	0.61	240	0.52	12.19	295.22	3.548	0.8101
PA	Beaver	NGC IND/SHIPPINGPORT	NGC4	201	S201	549.334	4497.294	17.98	240	0.52	11.87	294.11	4.494	1.0259
PA	Beaver	NGC IND/SHIPPINGPORT	NGC5	202	S202	549.334	4497.294	17.98	240	0.52	3.96	294.11	1.486	0.3393
PA	Beaver	NGC IND/SHIPPINGPORT	NGC6	203	S203	549.334	4497.294	17.98	240	0.46	14.09	294.11	4.152	0.9478
PA	Beaver	NGC IND/SHIPPINGPORT	NGC7	204	S204	549.334	4497.294	13.72	240	0.46	18.97	294.11	5.579	1.2737
PA	Beaver	NGC IND/SHIPPINGPORT	NGC8	205	S205	549.334	4497.294	18.29	240	0.30	5.17	294.11	0.696	0.1589
PA	Beaver	NGC IND/SHIPPINGPORT	NGC9	206	Z206	549.334	4497.294	0.61	240	0.43	4.54	295.22	7.336	1.6749
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK1	33	S03	562.994	4501.215	17.68	217	1.04	8.42	497.44	0.093	0.0211
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK2	101	Z01	562.994	4501.215	0.61	217	1.16	6.80	295.22	3.192	0.7287
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA1	101	S01	554.452	4500.526	12.19	230	1.46	21.90	510.78	0.491	0.1120
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA2	301	S03	554.452	4500.526	30.17	230	0.61	3.03	1255.22	0.005	0.0011
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA3	401	Z410	554.452	4500.526	0.61	230	0.49	8.96	295.22	0.024	0.0054
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA4	501	S510	554.452	4500.526	9.45	230	0.44	5.43	326.89	1.306	0.2981
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA5	801	Z07	554.452	4500.526	0.61	230	0.64	8.72	295.22	2.438	0.5566

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PA	Beaver	SCA PKG NORTH AMERICA /NEW BRIGHTN FAC	SCAPKG	32	S02	558.798	4510.106	7.62	237	0.61	5.87	488.56	0.216	0.0494
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP1	24	S-21	543.843	4493.285	20.73	231	0.46	28.75	294.11	6.207	1.4172
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP2	28	Z01	543.843	4493.285	3.05	231	0.52	12.19	295.22	0.674	0.1539
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP3	CD200	S200	543.843	4493.285	30.17	231	0.61	18.04	333.00	8.101	1.8495
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP4	EU-1,2	S-1	543.843	4493.285	16.46	231	2.59	15.31	368.00	0.546	0.1247
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP5	EU-4	S-3	543.843	4493.285	17.68	231	0.98	11.38	466.33	5.489	1.2532
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP6	EU-5	S-4	543.843	4493.285	30.48	231	1.55	15.72	377.44	21.575	4.9257
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP7	EU-7	S-6	543.843	4493.285	7.62	231	0.27	15.97	588.56	0.025	0.0057
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF1	102	S02	546.953	4497.933	17.68	237	1.07	10.92	400.78	0.406	0.0926
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF2	131	S03	546.953	4497.933	7.92	237	0.69	14.18	302.44	4.551	1.0391
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF3	132	S04	546.953	4497.933	12.19	237	1.83	21.56	366.33	4.857	1.1089
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF4	135	Z05	546.953	4497.933	0.61	237	0.82	7.86	295.22	0.638	0.1457
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST1	31	S04	589.150	4520.346	17.68	296	1.22	1.55	533.00	0.357	0.0815
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST2	32	S05	589.150	4520.346	9.14	296	0.91	4.41	533.00	0.303	0.0692
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST3	33	S06	589.150	4520.346	19.51	296	1.52	3.54	505.22	0.368	0.0840
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST4	34	S07	589.150	4520.346	19.51	296	1.52	4.54	505.22	0.368	0.0840
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST5	35	S08	589.150	4520.346	19.51	296	1.52	5.78	505.22	0.563	0.1284
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST6	38	S038	589.150	4520.346	4.57	296	0.61	7.75	494.11	0.335	0.0766
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST7	103	S44	589.150	4520.346	11.28	296	0.56	6.28	494.11	9.925	2.2661
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST8	105	S25	589.150	4520.346	18.29	296	0.61	12.90	321.89	2.116	0.4830
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST9	110	U10	589.150	4520.346	19.81	296	2.74	11.20	299.67	16.133	3.6834
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST10	112	T08	589.150	4520.346	22.25	296	1.75	7.53	645.22	3.898	0.8900
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST11	113	T09	589.150	4520.346	45.72	296	1.16	25.40	1079.67	1.446	0.3302
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST12	118	T12	589.150	4520.346	15.24	296	0.98	13.42	310.78	1.288	0.2940
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST13	119	T14	589.150	4520.346	19.51	296	0.76	17.10	310.78	3.133	0.7154
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST14	120	T15	589.150	4520.346	16.76	296	0.76	15.52	310.78	1.470	0.3357
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST15	121	V21	589.150	4520.346	17.37	296	0.90	5.79	316.89	18.202	4.1557
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST16	124	T19	589.150	4520.346	16.46	296	0.91	12.94	310.78	1.171	0.2672
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST17	127	T22	589.150	4520.346	20.42	296	0.61	13.75	310.78	0.467	0.1066
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST18	128	Z25	589.150	4520.346	0.61	296	1.34	10.52	295.22	0.223	0.0510
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST19	134	Z25	589.150	4520.346	0.61	296	0.82	7.86	295.22	0.031	0.0071
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST20	136	S17	589.150	4520.346	23.47	296	10.67	3.96	394.11	5.203	1.1878
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST21	148	S23	589.150	4520.346	24.08	296	1.34	6.64	471.33	0.819	0.1870
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST22	156	Z03	589.150	4520.346	30.48	296	1.13	8.20	295.22	0.992	0.2264
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST23	158	S19	589.150	4520.346	33.22	296	1.99	11.16	470.22	2.283	0.5212
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST24	253	Z52	589.150	4520.346	0.61	296	1.13	8.20	295.22	2.962	0.6762
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST25	123E	T18E	589.150	4520.346	7.31	296	0.55	9.36	296.89	8.530	1.9475
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST26	160A	S24	589.150	4520.346	17.68	296	1.04	8.42	497.44	1.287	0.2939
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC1	101	S01	609.655	4516.791	53.34	295	3.66	17.80	513.56	25.386	5.7959
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC2	102	S09	609.655	4516.791	27.43	295	0.30	16.17	294.11	0.240	0.0548
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC3	103	S08	609.655	4516.791	22.86	295	0.91	30.19	294.11	0.168	0.0383
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC4	104	S07	609.655	4516.791	12.19	295	0.61	9.70	294.11	0.168	0.0383
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC5	122	S03	609.655	4516.791	6.10	295	0.91	23.43	366.33	18.207	4.1569
PA	Butler	BASF EVANS CITY OPS	BASFE1	100	Z01	584.284	4522.587	0.61	330	3.17	5.09	295.22	3.474	0.7931

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PA	Butler	BASF EVANS CITY OPS	BASFE2	300	Z01	584.284	4522.587	0.61	330	0.61	10.30	295.22	1.197	0.2733
PA	Butler	BASF EVANS CITY OPS	BASFE3	441	S443	584.284	4522.587	15.54	330	0.47	6.99	345.78	0.306	0.0698
PA	Butler	BASF EVANS CITY OPS	BASFE4	441	S441	584.284	4522.587	10.67	330	0.15	13.61	294.11	0.306	0.0698
PA	Butler	BASF EVANS CITY OPS	BASFE5	640	S281	584.284	4522.587	9.14	330	0.91	7.91	294.11	0.531	0.1211
PA	Butler	BASF EVANS CITY OPS	BASFE6	640	Z01	584.284	4522.587	0.61	330	0.91	10.30	295.22	0.265	0.0605
PA	Butler	BASF EVANS CITY OPS	BASFE7	640	Z01	584.284	4522.587	0.61	330	0.61	8.02	295.22	0.293	0.0668
PA	Butler	BASF EVANS CITY OPS	BASFE8	681	Z01	584.284	4522.587	0.61	330	0.82	11.09	295.22	0.039	0.0088
PA	Butler	BASF EVANS CITY OPS	BASFE9	721	S721	584.284	4522.587	3.96	330	0.46	12.82	449.67	0.130	0.0296
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ1	109	S109	571.795	4516.016	11.89	275	0.51	13.33	301.33	2.761	0.6305
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ2	111	S111A	571.795	4516.016	7.31	275	0.61	16.17	294.11	0.003	0.0007
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ3	111	S111B	571.795	4516.016	7.31	275	0.61	17.79	294.11	0.003	0.0007
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ4	202	S202C	571.795	4516.016	15.54	275	0.88	9.94	453.56	0.194	0.0444
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ5	207	S207A	571.795	4516.016	21.33	275	0.98	10.74	463.56	1.600	0.3653
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ6	207	S207B	571.795	4516.016	13.11	275	1.10	13.79	456.33	2.326	0.5311
PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL1	101	S01	594.788	4524.591	7.62	309	0.61	16.50	596.89	7.698	1.7575
PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL2	108	S08	594.788	4524.591	4.57	309	0.76	19.92	471.89	5.942	1.3565
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR1	33	S33	597.798	4525.208	2.44	318	0.55	3.49	413.56	0.159	0.0363
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR2	106	S06	597.798	4525.208	0.91	318	0.30	11.32	293.00	2.159	0.4929
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR3	108	S08	597.798	4525.208	8.84	318	0.44	7.24	314.67	3.968	0.9058
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR4	109	S09	597.798	4525.208	3.66	318	0.61	2.42	421.89	0.090	0.0205
PA	Butler	CROMPTON CORP/PETROLIA	CROM1	32	S032	607.816	4540.948	60.96	358	2.74	7.66	588.56	2.669	0.6094
PA	Butler	CROMPTON CORP/PETROLIA	CROM2	33	S033	607.816	4540.948	9.14	358	0.61	29.40	449.67	0.671	0.1532
PA	Butler	CROMPTON CORP/PETROLIA	CROM3	34	S034	607.816	4540.948	60.96	358	1.83	7.44	610.78	8.824	2.0145
PA	Butler	CROMPTON CORP/PETROLIA	CROM4	110	S0110	607.816	4540.948	18.29	358	0.61	2.51	588.56	0.992	0.2266
PA	Butler	CROMPTON CORP/PETROLIA	CROM5	112	S0112	607.816	4540.948	15.24	358	0.61	1.15	694.11	0.077	0.0175
PA	Butler	CROMPTON CORP/PETROLIA	CROM6	116	S0116	607.816	4540.948	15.24	358	0.61	1.29	644.11	0.469	0.1071
PA	Butler	CROMPTON CORP/PETROLIA	CROM7	119	S0118	607.816	4540.948	15.24	358	0.61	1.62	644.11	0.431	0.0984
PA	Butler	CROMPTON CORP/PETROLIA	CROM8	123	SO5	607.816	4540.948	3.05	358	0.30	0.02	921.89	1.082	0.2470
PA	Butler	CROMPTON CORP/PETROLIA	CROM9	130	Z01	607.816	4540.948	9.14	358	2.74	4.75	295.22	9.475	2.1632
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS1	35	S035	607.874	4541.582	9.14	358	0.76	3.62	421.89	0.162	0.0371
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS2	36	S036	607.874	4541.582	15.24	358	0.76	3.08	433.00	0.162	0.0371
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS3	38	S038	607.874	4541.582	26.21	358	1.28	16.13	449.67	0.757	0.1729
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS4	39	S039	607.874	4541.582	15.54	358	1.83	12.93	434.11	1.030	0.2352
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS5	40	S040	607.874	4541.582	19.51	358	1.68	14.83	434.11	5.312	1.2128
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS6	100	S100	607.874	4541.582	22.86	358	0.61	20.34	362.44	7.983	1.8226
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS7	105	S105	607.874	4541.582	12.19	358	0.61	3.23	366.33	3.057	0.6979
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS8	106	S106	607.874	4541.582	19.81	358	1.07	15.84	366.33	19.174	4.3775
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS9	131	S131	607.874	4541.582	18.90	358	1.07	18.40	385.22	12.059	2.7532
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS10	133	S133	607.874	4541.582	12.19	358	0.30	3.24	366.33	0.612	0.1397
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS11	153	S116	607.874	4541.582	13.72	358	0.76	10.70	334.67	2.261	0.5162
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS12	154	S154J	607.874	4541.582	21.33	358	0.30	8.26	366.33	1.369	0.3125
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS13	154	S154G	607.874	4541.582	18.90	358	0.30	7.64	349.67	0.456	0.1042
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS14	157	S157E	607.874	4541.582	18.29	358	0.40	5.36	533.00	0.077	0.0176
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS15	161	S161	607.874	4541.582	10.67	358	0.61	16.17	293.00	0.532	0.1215

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PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS16	162	S162C	607.874	4541.582	19.51	358	0.43	14.90	394.11	7.293	1.6652
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS17	162	S162A	607.874	4541.582	18.90	358	0.24	9.10	394.11	3.647	0.8326
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS18	162	S162E	607.874	4541.582	17.37	358	0.37	16.80	394.11	7.079	1.6162
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS19	163	S163	607.874	4541.582	11.89	358	0.39	4.97	307.44	2.214	0.5054
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS20	164	S164	607.874	4541.582	12.19	358	0.21	13.20	588.56	0.002	0.0005
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS21	166	S166	607.874	4541.582	13.41	358	0.30	2.90	355.22	0.386	0.0881
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS22	179	S179	607.874	4541.582	15.54	358	0.47	6.99	345.78	13.241	3.0229
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS23	180	S180	607.874	4541.582	8.23	358	0.43	18.35	527.44	0.824	0.1881
PA	Butler	NAPCO INC/VALENCIA	NAPC1	38	Z01	590.144	4508.723	12.19	320	0.43	6.55	295.22	0.104	0.0238
PA	Butler	NAPCO INC/VALENCIA	NAPC2	C01	S01	590.144	4508.723	16.15	320	1.01	26.30	966.33	0.224	0.0511
PA	Butler	PENRECO/KARNS CITY	PENR1	31	S01	607.229	4539.107	18.59	369	1.13	9.36	577.44	0.311	0.0711
PA	Butler	PENRECO/KARNS CITY	PENR2	32	S02	607.229	4539.107	19.51	369	1.22	13.22	549.67	18.114	4.1355
PA	Butler	PENRECO/KARNS CITY	PENR3	33	S03	607.229	4539.107	21.94	369	1.22	13.46	560.78	19.824	4.5259
PA	Butler	PENRECO/KARNS CITY	PENR4	35	S05	607.229	4539.107	17.37	369	0.70	4.65	810.78	0.439	0.1003
PA	Butler	PENRECO/KARNS CITY	PENR5	36	S06	607.229	4539.107	16.76	369	0.55	2.40	1144.11	0.293	0.0668
PA	Butler	PENRECO/KARNS CITY	PENR6	38	S08	607.229	4539.107	12.50	369	0.61	1.45	699.67	0.204	0.0466
PA	Butler	PENRECO/KARNS CITY	PENR7	101	S04	607.229	4539.107	16.76	369	0.46	13.51	1144.11	3.626	0.8277
PA	Butler	PENRECO/KARNS CITY	PENR8	116	Z01	607.229	4539.107	30.48	369	0.64	8.38	295.22	0.287	0.0655
PA	Butler	PENRECO/KARNS CITY	PENR9	116	Z01	607.229	4539.107	30.48	369	1.16	5.79	295.22	0.386	0.0880
PA	Butler	PENRECO/KARNS CITY	PENR10	119	S19	607.229	4539.107	31.39	369	1.41	6.62	601.89	0.439	0.1003
PA	Butler	PENRECO/KARNS CITY	PENR11	120	Z20	607.229	4539.107	0.61	369	1.62	6.49	295.22	1.312	0.2996
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO1	102	S02	573.014	4525.853	5.79	391	0.82	7.86	295.22	0.001	0.0001
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO2	102	S02	573.014	4525.853	5.79	391	0.67	12.22	295.22	0.001	0.0002
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO3	110	Z04	573.014	4525.853	0.61	391	0.64	8.38	295.22	0.005	0.0012
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA1	101	S01	577.712	4518.285	6.10	299	1.83	2.48	1144.11	7.325	1.6723
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA2	101	Z01	577.712	4518.285	0.61	299	1.16	6.80	295.22	7.325	1.6723
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV1	102	S101	575.000	4506.212	9.75	331	0.91	18.30	316.33	0.043	0.0098
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV2	111	S111A	575.000	4506.212	14.32	331	0.37	5.27	428.00	1.125	0.2568
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV3	111	S111	575.000	4506.212	14.02	331	1.37	10.73	293.00	1.125	0.2568
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV4	115	Z115	575.000	4506.212	0.61	331	1.04	14.20	295.22	0.303	0.0692
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV5	116	S116	575.000	4506.212	14.32	331	0.37	27.85	428.00	0.141	0.0321
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV6	116	Z116	575.000	4506.212	0.61	331	0.91	10.30	295.22	0.141	0.0321
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV7	118	S118	575.000	4506.212	10.97	331	0.59	5.45	314.11	0.012	0.0028
PA	Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS PWR ST	ALLGAN	102	S02	599.485	4400.378	19.81	347	3.48	18.88	616.33	0.760	0.1735
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL1	101	S01	620.423	4427.412	30.48	287	1.52	8.28	699.67	49.021	11.1919
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL2	102	S02	620.423	4427.412	22.86	287	0.91	17.97	498.00	77.211	17.6280
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL3	106	S106	620.423	4427.412	21.03	287	1.47	10.02	323.00	4.537	1.0357
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL4	107	Z07	620.423	4427.412	18.29	287	0.64	8.72	295.22	1.303	0.2975
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL5	108	S08	620.423	4427.412	17.68	287	1.04	8.42	497.44	0.031	0.0071
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL6	109	S109	620.423	4427.412	11.28	287	0.61	9.70	588.56	0.041	0.0093
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL7	110	S110	620.423	4427.412	10.67	287	0.61	10.50	588.56	0.058	0.0133
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL8	111	S111	620.423	4427.412	9.14	287	0.91	1.44	588.56	0.029	0.0067
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILLE	CROWN1	32	S032	621.438	4426.906	5.49	297	0.76	2.07	438.56	0.040	0.0091
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILLE	CROWN2	33	S033	621.438	4426.906	3.66	297	0.55	3.00	438.56	0.018	0.0040

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PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILLE	CROWN3	102	S102	621.438	4426.906	7.62	297	1.07	12.90	588.56	2.930	0.6690
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS1	31	S01	613.309	4412.415	10.67	335	0.30	0.65	491.33	0.008	0.0018
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS2	32	S02	613.309	4412.415	10.67	335	0.30	0.65	494.11	0.009	0.0020
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS3	33	S03	613.309	4412.415	10.67	335	0.30	0.65	500.78	0.006	0.0015
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS4	34	S04	613.309	4412.415	11.28	335	0.54	6.31	500.78	0.023	0.0053
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS5	102	S06	613.309	4412.415	9.14	335	0.49	20.86	633.00	0.285	0.0651
PA	Fayette	ONYX CHESTNUT VALLEY LANDFILL INC/J & L	ONYX	101	S01	602.494	4416.913	3.96	380	0.61	0.69	310.78	8.619	1.9677
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES1	101	S02	613.494	4421.310	16.76	329	0.64	2.20	533.00	0.003	0.0006
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES2	102	S01	613.494	4421.310	12.19	329	2.13	5.17	588.56	0.195	0.0445
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES3	103	S03	613.494	4421.310	12.19	329	1.60	16.22	640.22	0.292	0.0667
PA	Greene	CARNEGIE INTERSTATE /WAYNESBRG COMPRES	CARINT	32	SO2	569.815	4416.045	8.23	289	0.44	17.46	669.11	0.422	0.0963
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR1	31	S31	591.225	4410.410	17.68	246	1.04	8.42	497.44	0.433	0.0988
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR2	111	Z11	591.225	4410.410	0.61	246	1.07	11.52	295.22	10.107	2.3076
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB1	101	S01	550.194	4424.915	31.70	392	2.32	9.74	393.00	61.393	14.0168
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB2	102	S02	550.194	4424.915	7.62	392	2.26	12.44	295.22	61.324	14.0009
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB3	106	Z06	550.194	4424.915	0.61	392	1.07	11.52	295.22	15.462	3.5300
PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR1	101	S01	572.662	4417.004	12.19	300	1.60	16.22	640.22	0.541	0.1235
PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR2	102	S02	572.662	4417.004	9.14	300	0.61	16.17	644.11	0.649	0.1482
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP1	37	S07	573.038	4417.863	6.10	300	0.30	6.47	644.11	0.022	0.0049
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP2	105	SO5	573.038	4417.863	8.23	300	0.44	17.46	669.11	0.141	0.0321
PA	Greene	KYOWA AMER CORP/WAYNESBURG PLT	KYOWA	31	S01	569.790	4418.820	6.10	315	0.46	3.36	449.67	0.105	0.0239
PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL1	109	SO9	546.835	4415.714	8.23	306	0.44	17.46	669.11	5.647	1.2894
PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL2	118	S18	546.835	4415.714	13.11	306	1.83	27.10	751.89	1.049	0.2396
PA	Greene	TEXAS EASTERN TRANS /WAYNESBURG STA	TEXWA1	101	SO1	574.778	4419.189	12.19	336	1.60	16.22	640.22	0.184	0.0420
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX1	102	Z102	556.898	4525.467	4.57	255	0.91	14.39	295.22	0.019	0.0043
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX2	108	Z108	556.898	4525.467	3.05	255	0.91	14.39	295.22	3.804	0.8684
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX3	110	Z110	556.898	4525.467	0.61	255	0.91	14.39	295.22	2.222	0.5073
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX4	111	Z111	556.898	4525.467	29.87	255	0.91	14.39	295.22	0.565	0.1290
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX5	112	Z112	556.898	4525.467	23.16	255	0.70	17.80	295.22	0.833	0.1903
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX6	150	Z150	556.898	4525.467	1.22	255	0.70	17.80	295.22	0.833	0.1903
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX7	155	Z155	556.898	4525.467	1.22	255	0.91	14.39	295.22	2.373	0.5418
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX8	159	Z159	556.898	4525.467	0.91	255	0.91	14.39	295.22	0.565	0.1289
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX9	160	Z160	556.898	4525.467	0.91	255	0.70	17.80	295.22	8.455	1.9303
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX10	163	Z163	556.898	4525.467	24.38	255	0.91	14.39	295.22	0.800	0.1827
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX11	165	Z165	556.898	4525.467	23.16	255	0.91	14.39	295.22	2.007	0.4581
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX12	167	Z167	556.898	4525.467	3.66	255	0.70	15.58	295.22	8.789	2.0066
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX13	170	Z170	556.898	4525.467	3.05	255	0.70	15.58	295.22	1.242	0.2835
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX14	171	Z171	556.898	4525.467	3.05	255	0.91	14.39	295.22	0.001	0.0002
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX15	172	Z172	556.898	4525.467	3.05	255	0.70	17.80	295.22	0.229	0.0524
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX16	182	Z182	556.898	4525.467	4.27	255	0.98	14.14	295.22	0.499	0.1139
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX17	183	Z183	556.898	4525.467	24.38	255	0.85	16.09	295.22	0.306	0.0698
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX18	185	Z185	556.898	4525.467	0.61	255	0.61	13.17	295.22	0.888	0.2028
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX19	197	S197	556.898	4525.467	24.38	255	0.86	12.23	336.33	35.757	8.1638
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX20	198	S198	556.898	4525.467	13.11	255	0.70	9.78	299.67	4.986	1.1384

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PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX21	199	S199	556.898	4525.467	3.05	255	0.34	16.00	299.67	1.852	0.4228
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX22	200	S200	556.898	4525.467	14.93	255	0.34	16.00	294.11	1.852	0.4228
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX23	201	S201	556.898	4525.467	6.10	255	0.82	17.80	294.11	1.852	0.4228
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX24	202	S202	556.898	4525.467	21.33	255	0.34	16.00	299.67	1.852	0.4228
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX25	203	S203	556.898	4525.467	9.14	255	0.79	19.10	299.67	12.286	2.8049
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX26	204	S204	556.898	4525.467	8.53	255	0.98	15.80	299.67	15.599	3.5615
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX27	205	S205	556.898	4525.467	16.76	255	0.50	11.87	314.11	2.089	0.4768
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX28	206	S206	556.898	4525.467	22.25	255	0.58	21.50	299.67	9.396	2.1451
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX29	207	S207	556.898	4525.467	32.00	255	0.52	17.90	299.67	2.998	0.6844
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX30	208	S208	556.898	4525.467	13.72	255	0.61	13.80	299.67	5.564	1.2702
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX31	210	S210	556.898	4525.467	35.05	255	0.70	14.70	294.11	14.958	3.4151
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX32	211	S211	556.898	4525.467	35.05	255	0.70	12.20	294.11	6.268	1.4311
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX33	212	S212	556.898	4525.467	35.05	255	0.40	5.74	294.11	0.926	0.2114
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX34	215	S215	556.898	4525.467	15.54	255	1.19	14.50	294.11	63.680	14.5387
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX35	216	S216	556.898	4525.467	11.58	255	1.01	5.94	294.11	9.972	2.2767
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX36	217	S217	556.898	4525.467	10.97	255	0.27	16.00	294.11	1.282	0.2927
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX37	218	S218	556.898	4525.467	10.06	255	0.34	26.70	294.11	3.134	0.7155
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX38	220	S220	556.898	4525.467	16.76	255	0.34	16.00	299.67	1.852	0.4228
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX39	221	S221	556.898	4525.467	24.38	255	0.53	12.36	306.89	12.917	2.9492
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX40	225	S223	556.898	4525.467	18.90	255	2.74	16.40	408.00	9.135	2.0857
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX41	227	S226	556.898	4525.467	91.44	255	3.35	19.60	408.00	59.356	13.5517
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX42	234	S234	556.898	4525.467	23.47	255	0.91	13.92	345.22	52.710	12.0343
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX43	235	S235	556.898	4525.467	12.19	255	0.70	24.50	349.67	9.545	2.1792
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB1	101	S101	541.971	4541.031	9.14	325	1.22	26.28	294.11	3.087	0.7048
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB2	101	Z01	541.971	4541.031	0.61	325	1.37	17.50	295.22	0.343	0.0783
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF1	108	Z108	559.518	4523.534	0.61	278	1.19	5.58	295.22	1.063	0.2426
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF2	109	Z109	559.518	4523.534	0.61	278	1.65	4.97	295.22	0.097	0.0221
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF3	110	Z110	559.518	4523.534	0.61	278	0.64	11.00	295.22	0.580	0.1324
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF4	341	S341	559.518	4523.534	25.30	278	0.79	2.44	421.89	0.380	0.0867
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF5	500A	S500A	559.518	4523.534	11.58	278	0.91	5.17	477.44	0.380	0.0867
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF6	500B	S500B	559.518	4523.534	10.36	278	0.49	8.80	336.89	1.645	0.3757
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ1	33	S03	554.699	4537.917	25.91	240	0.76	4.85	560.78	0.141	0.0321
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ2	34	Z01	554.699	4537.917	0.61	240	1.13	8.20	295.22	0.084	0.0191
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ3	101	S01	554.699	4537.917	22.86	240	3.05	21.97	316.33	13.274	3.0305
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ4	102	S02	554.699	4537.917	30.48	240	2.44	14.68	551.33	0.330	0.0754
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ5	102	Z01	554.699	4537.917	0.61	240	1.28	7.92	295.22	0.018	0.0040
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ6	105	Z01	554.699	4537.917	0.61	240	0.98	2.47	295.22	4.097	0.9353
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ7	110	Z01	554.699	4537.917	0.61	240	2.01	11.03	295.22	8.456	1.9306
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ8	132	Z01	554.699	4537.917	0.61	240	0.82	7.86	295.22	0.033	0.0074
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ9	109A	S109	554.699	4537.917	17.68	240	1.07	10.92	400.78	2.455	0.5605
PA	Lawrence	ESSROC/BESSEMER	ESRC1	202	Z202	542.900	4536.052	0.61	340	2.29	12.07	295.22	1.193	0.2724
PA	Lawrence	ESSROC/BESSEMER	ESRC2	203	Z203	542.900	4536.052	0.61	340	1.04	16.00	295.22	0.290	0.0661
PA	Lawrence	ESSROC/BESSEMER	ESRC3	212	Z212	542.900	4536.052	9.14	340	1.01	15.70	295.22	0.313	0.0715
PA	Lawrence	ESSROC/BESSEMER	ESRC4	225	Z225	542.900	4536.052	0.61	340	1.10	13.35	295.22	0.623	0.1421

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PA	Lawrence	ESSROC/BESSEMER	ESRC5	501	S501	542.900	4536.052	62.48	340	3.35	10.86	449.67	65.863	15.0373
PA	Lawrence	ESSROC/BESSEMER	ESRC6	502	S502	542.900	4536.052	60.96	340	4.63	7.14	477.44	92.219	21.0545
PA	Lawrence	ESSROC/BESSEMER	ESRC7	504	S503	542.900	4536.052	21.33	340	2.13	20.05	344.11	44.232	10.0986
PA	Lawrence	ESSROC/BESSEMER	ESRC8	511	S510	542.900	4536.052	21.94	340	0.61	9.90	294.11	1.434	0.3275
PA	Lawrence	ESSROC/BESSEMER	ESRC9	512	Z512	542.900	4536.052	0.61	340	0.98	14.69	295.22	0.962	0.2196
PA	Lawrence	ESSROC/BESSEMER	ESRC10	517	Z517	542.900	4536.052	0.61	340	1.01	16.15	295.22	0.476	0.1087
PA	Lawrence	ESSROC/BESSEMER	ESRC11	605	Z605	542.900	4536.052	0.61	340	0.98	14.69	295.22	19.584	4.4712
PA	Lawrence	ESSROC/BESSEMER	ESRC12	610	S610	542.900	4536.052	26.52	340	0.91	19.05	338.56	0.408	0.0931
PA	Lawrence	ESSROC/BESSEMER	ESRC13	611	S610B	542.900	4536.052	28.65	340	0.30	12.29	338.56	1.209	0.2761
PA	Lawrence	ESSROC/BESSEMER	ESRC14	611	S610A	542.900	4536.052	16.76	340	0.37	3.26	338.56	1.174	0.2680
PA	Lawrence	ESSROC/BESSEMER	ESRC15	612	S612	542.900	4536.052	21.64	340	0.86	18.81	354.67	3.530	0.8058
PA	Lawrence	ESSROC/BESSEMER	ESRC16	701	S701	542.900	4536.052	22.86	340	0.30	28.18	299.67	0.377	0.0861
PA	Lawrence	ESSROC/BESSEMER	ESRC17	704	S704	542.900	4536.052	41.76	340	0.30	25.24	338.56	1.917	0.4376
PA	Lawrence	ESSROC/BESSEMER	ESRC18	705	S705A	542.900	4536.052	41.76	340	0.30	23.25	338.56	3.928	0.8968
PA	Lawrence	ESSROC/BESSEMER	ESRC19	705	S705B	542.900	4536.052	16.76	340	0.50	11.87	314.11	3.928	0.8968
PA	Lawrence	ESSROC/BESSEMER	ESRC20	707	S707	542.900	4536.052	6.71	340	0.30	20.23	294.11	2.860	0.6530
PA	Lawrence	ESSROC/BESSEMER	ESRC21	708	S708	542.900	4536.052	9.14	340	0.30	20.23	294.11	1.430	0.3265
PA	Lawrence	ESSROC/BESSEMER	ESRC22	803	Z803	542.900	4536.052	0.61	340	1.01	15.97	295.22	2.175	0.4966
PA	Lawrence	FLOWLINE DIV MARKOVI/NEW CASTLE	FLWLN	114	S001	549.053	4540.775	0.61	309	0.30	6.38	491.33	0.123	0.0281
PA	Lawrence	GENERIC UNIT - NEW CASTLE	GEN1	GCC42	41	553.177	4532.100	18.90	245	3.05	18.68	580.22	26.390	6.0251
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC1	1	Z001	560.995	4523.213	0.61	280	0.43	6.55	295.22	0.152	0.0346
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC2	101	S101	560.995	4523.213	18.59	280	1.52	16.00	294.11	5.881	1.3428
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC3	102	S102	560.995	4523.213	21.03	280	1.01	19.30	330.22	10.270	2.3447
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC4	103	S103	560.995	4523.213	22.25	280	1.46	21.90	346.89	2.276	0.5195
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC5	103	S103A	560.995	4523.213	21.94	280	3.05	11.00	402.44	1.172	0.2676
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC6	104	S104	560.995	4523.213	17.98	280	0.82	7.50	294.11	5.881	1.3428
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC7	105	Z105	560.995	4523.213	0.61	280	0.70	5.79	295.22	0.459	0.1049
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC8	107	S107	560.995	4523.213	10.36	280	0.49	8.80	336.89	1.537	0.3508
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG1	102	7F4	554.446	4537.982	7.31	244	0.91	0.10	355.22	0.661	0.1510
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG2	102	Z100	554.446	4537.982	0.61	244	0.70	5.79	295.22	0.372	0.0849
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG3	103	7F9	554.446	4537.982	3.96	244	0.91	0.37	355.22	0.230	0.0524
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF1	31	S10	567.699	4456.709	9.14	288	1.52	2.59	449.67	0.108	0.0247
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF2	103	S03	567.699	4456.709	4.27	288	0.91	8.35	294.11	0.361	0.0823
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF3	109	S09	567.699	4456.709	9.14	288	1.52	5.17	449.67	1.782	0.4067
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF4	111	S12	567.699	4456.709	8.84	288	0.72	13.64	303.00	0.071	0.0163
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF5	115	Z06	567.699	4456.709	0.61	288	4.33	9.05	295.22	3.301	0.7537
PA	Washington	ALLEGHENY LUDLUM COR/WASHINGTON FLATROLL	ALLWA	109	Z01	561.999	4448.612	0.61	313	0.61	16.98	295.22	0.238	0.0544
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	CLMGD1	102	S02	548.183	4457.824	8.23	300	0.44	17.46	669.11	1.298	0.2964
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	CLMGD2	104	S04	548.183	4457.824	11.28	300	0.56	6.28	494.11	0.039	0.0089
PA	Washington	DOMINION PEOPLES/GIBSON STA	DOMGIB	101	S01	588.256	4444.277	7.62	322	0.27	3.99	633.00	0.104	0.0236
PA	Washington	DYNO NOBEL INC/DONORA	DYNO1	31	S031	597.479	4449.142	15.24	234	0.91	9.76	435.78	1.613	0.3682
PA	Washington	DYNO NOBEL INC/DONORA	DYNO2	35	S035A	597.479	4449.142	15.54	234	0.47	6.99	345.78	4.364	0.9963
PA	Washington	DYNO NOBEL INC/DONORA	DYNO3	101	S01	597.479	4449.142	32.61	234	1.16	23.27	469.67	0.448	0.1024
PA	Washington	DYNO NOBEL INC/DONORA	DYNO4	103	S02	597.479	4449.142	44.19	234	1.98	27.55	302.44	37.384	8.5353

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PA	Washington	DYNO NOBEL INC/DONORA	DYNO5	105	S05	597.479	4449.142	9.14	234	0.64	14.90	305.22	1.974	0.4507
PA	Washington	DYNO NOBEL INC/DONORA	DYNO6	106	S033	597.479	4449.142	13.72	234	1.01	10.69	546.89	0.737	0.1683
PA	Washington	DYNO NOBEL INC/DONORA	DYNO7	107	Z210	597.479	4449.142	0.61	234	0.55	10.82	295.22	2.003	0.4574
PA	Washington	DYNO NOBEL INC/DONORA	DYNO8	108	Z211	597.479	4449.142	0.61	234	0.85	1.34	295.22	11.167	2.5495
PA	Washington	DYNO NOBEL INC/DONORA	DYNO9	109	Z03	597.479	4449.142	7.62	234	0.85	1.34	295.22	0.376	0.0858
PA	Washington	DYNO NOBEL INC/DONORA	DYNO10	103B	Z103B	597.479	4449.142	0.61	234	0.85	15.91	295.22	0.473	0.1081
PA	Washington	EQUITRANS INC/HARTSON	EQTNH1	103	S01	588.216	4456.399	10.67	316	0.46	21.60	477.44	0.108	0.0247
PA	Washington	EQUITRANS INC/HARTSON	EQTNH2	106	SO6	588.216	4456.399	4.88	316	0.46	0.86	533.00	0.011	0.0025
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN1	101	Z01	566.547	4463.825	0.61	310	1.25	12.01	295.22	0.081	0.0185
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN2	103	S03	566.547	4463.825	12.19	310	0.21	2.30	449.67	0.041	0.0095
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS1	33	S07	591.478	4448.378	12.50	232	0.59	6.38	491.33	0.621	0.1418
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS2	101	S06	591.478	4448.378	16.46	232	0.09	17.39	293.00	1.372	0.3131
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS3	103	S05	591.478	4448.378	34.14	232	0.91	3.35	923.00	0.216	0.0494
PA	Washington	GENERIC UNIT - WASHNGTN	GEN2	GGT42	41	548.238	4479.681	18.90	300	3.05	18.68	580.22	0.480	0.1096
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP1	31	S031A	561.781	4447.222	6.10	318	0.30	14.57	494.11	0.108	0.0247
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP2	102	W03	561.781	4447.222	3.66	318	0.61	0.05	294.11	0.478	0.1091
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP3	110	W110G	561.781	4447.222	15.24	318	1.52	1.06	588.56	3.286	0.7502
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP4	126	Z01	561.781	4447.222	1.52	318	1.22	10.39	295.22	5.983	1.3659
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP5	130	S130A	561.781	4447.222	3.66	318	0.91	12.90	294.11	0.101	0.0232
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP6	140	S140	561.781	4447.222	0.61	318	1.28	7.92	295.22	0.051	0.0116
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP7	140	S140	561.781	4447.222	0.61	318	1.04	14.20	295.22	0.054	0.0124
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP8	160	S160	561.781	4447.222	17.37	318	0.86	7.80	551.33	0.152	0.0347
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP9	180	S180	561.781	4447.222	10.67	318	0.76	8.28	588.56	0.314	0.0718
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP10	210	Z05	561.781	4447.222	0.61	318	1.19	6.95	295.22	1.850	0.4225
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP11	220	Z220	561.781	4447.222	11.28	318	0.56	6.28	494.11	0.325	0.0741
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP12	230	Z05	561.781	4447.222	0.61	318	1.19	5.58	295.22	0.948	0.2163
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL1	105	S01	550.858	4468.276	153.31	369	2.44	3.60	323.56	3.736	0.8529
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL2	130	S02	550.858	4468.276	17.07	369	0.80	10.88	300.22	0.800	0.1826
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL3	131	S03	550.858	4468.276	12.19	369	0.61	4.24	366.33	1.257	0.2870
PA	Washington	PA DPW/WESTERN STATE SCH & HOSP	DPWWS	33	S03	570.698	4458.801	18.29	315	0.91	9.00	588.56	0.031	0.0071
PA	Washington	PA TRANSFORMER TECH /CANONSBURG	TRNTCH	36	SO6	570.545	4457.956	11.89	295	0.52	9.78	491.33	0.156	0.0356
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR1	106	S09	589.996	4451.213	10.06	227	0.56	12.70	396.33	4.407	1.0062
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR2	107	S01	589.996	4451.213	15.85	227	0.92	10.10	380.22	0.015	0.0035
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR3	110	S04	589.996	4451.213	13.72	227	0.69	15.07	317.44	0.221	0.0505
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR4	110	Z110	589.996	4451.213	0.61	227	0.94	15.73	295.22	0.144	0.0328
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC1	101	S01	550.382	4472.213	25.91	320	3.74	9.10	350.22	1.927	0.4399
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC2	101	Z03	550.382	4472.213	24.08	320	1.34	6.64	471.33	0.379	0.0865
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC3	102	S02	550.382	4472.213	17.68	320	1.07	10.92	400.78	5.161	1.1784
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC4	103	Z01	550.382	4472.213	12.19	320	1.28	7.92	295.22	0.517	0.1181
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC5	103	Z01	550.382	4472.213	12.19	320	1.04	14.20	295.22	0.552	0.1260
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC6	104	Z04	550.382	4472.213	0.61	320	1.86	9.60	295.22	0.685	0.1563
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC7	104	Z04	550.382	4472.213	0.61	320	1.04	14.20	295.22	0.730	0.1667
PA	Washington	USA WASTE SVC INC/USA SOUTH HILLS LDFL I	USAWSH	104	Z05	586.001	4458.216	0.61	307	1.10	11.19	295.22	0.966	0.2205
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA1	38	S038	598.695	4438.189	11.28	233	0.82	16.41	421.89	0.260	0.0593

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA2	39	Z03	598.695	4438.189	0.61	233	0.43	6.55	295.22	0.033	0.0074
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA3	102	S102	598.695	4438.189	6.10	233	0.30	7.80	977.44	0.503	0.1148
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA4	103	S103	598.695	4438.189	17.37	233	0.86	7.80	551.33	0.073	0.0168
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA5	201	Z201	598.695	4438.189	0.61	233	1.07	3.14	295.22	9.049	2.0660
PA	Washington	WILLIAM H MARTIN INC/ARDEN LDFL	WILMAR	101	S01	562.566	4451.147	15.24	300	3.44	0.26	1088.56	6.032	1.3771
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH1	107	S05	594.082	4443.703	30.48	234	0.61	25.87	627.44	6.574	1.5008
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH2	107	S24	594.082	4443.703	24.38	234	0.86	12.21	448.00	12.760	2.9133
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH3	130	Z01	594.082	4443.703	0.61	234	0.82	7.86	295.22	0.974	0.2223
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH4	132	Z01	594.082	4443.703	0.61	234	1.10	15.88	295.22	3.677	0.8394
PA	Westmoreland	ALCOA INC/UPPER BURREL	ALCOA	31	S01	613.893	4490.207	10.67	392	0.30	0.65	497.44	0.429	0.0980
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV1	32	S032	620.711	4495.922	16.76	247	0.61	2.44	435.78	0.114	0.0260
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV2	103	S103	620.711	4495.922	21.33	247	1.52	17.46	321.89	12.653	2.8889
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV3	113	Z113	620.711	4495.922	0.61	247	1.19	5.58	295.22	0.276	0.0629
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV4	114	S114	620.711	4495.922	21.33	247	0.79	11.09	316.33	11.479	2.6207
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV5	115	Z115	620.711	4495.922	3.05	247	2.01	11.03	295.22	1.175	0.2683
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV6	120A	S120A	620.711	4495.922	15.24	247	1.83	0.05	810.78	0.216	0.0494
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV7	120B	S120B	620.711	4495.922	12.50	247	0.76	20.70	344.11	2.485	0.5674
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV8	120D	S120	620.711	4495.922	21.33	247	1.22	4.04	321.89	0.542	0.1238
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV9	121A	Z121A	620.711	4495.922	0.61	247	0.82	7.86	295.22	1.100	0.2511
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV10	121B	S121B	620.711	4495.922	4.88	247	1.01	15.12	810.78	0.282	0.0645
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV11	121D	S121	620.711	4495.922	18.29	247	0.61	5.82	321.89	0.388	0.0885
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV12	121E	S121E	620.711	4495.922	18.29	247	0.46	6.89	316.33	0.194	0.0442
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW1	32	S0312	617.435	4499.733	23.16	242	2.29	3.45	421.89	0.004	0.0008
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW2	33	S033	617.435	4499.733	13.11	242	1.07	15.84	421.89	0.163	0.0371
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW3	36	S036A	617.435	4499.733	16.76	242	0.61	0.49	494.11	0.034	0.0078
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW4	116	S116	617.435	4499.733	15.24	242	1.22	1.52	294.11	15.148	3.4585
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW5	118	S118F	617.435	4499.733	17.68	242	1.04	8.42	497.44	0.214	0.0489
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW6	118	S118E	617.435	4499.733	15.24	242	1.07	6.40	810.78	0.976	0.2228
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW7	128	Z128	617.435	4499.733	0.61	242	1.19	5.58	295.22	0.212	0.0484
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW8	129	S129	617.435	4499.733	15.24	242	0.46	28.65	321.89	1.841	0.4204
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW9	130	S1301	617.435	4499.733	25.91	242	1.07	15.85	303.56	0.320	0.0731
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW10	134	Z134	617.435	4499.733	6.10	242	0.82	7.86	295.22	0.078	0.0177
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW11	105A	Z105A	617.435	4499.733	0.61	242	1.13	8.20	295.22	0.108	0.0247
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW12	105C	S105C	617.435	4499.733	9.14	242	0.30	17.91	294.11	2.389	0.5455
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW13	105D	S105D	617.435	4499.733	18.29	242	0.40	13.78	338.56	0.097	0.0221
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW14	105E	S105E	617.435	4499.733	16.76	242	1.04	10.67	310.22	0.097	0.0221
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW15	112A	Z112A	617.435	4499.733	7.62	242	0.91	5.39	321.89	2.389	0.5455
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW16	112B	S112B	617.435	4499.733	15.24	242	0.46	21.64	321.89	0.097	0.0221
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW17	112C	Z112C	617.435	4499.733	3.05	242	0.82	7.86	295.22	0.017	0.0038
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW18	112E	S22A	617.435	4499.733	15.24	242	0.61	24.38	810.78	0.216	0.0494
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW19	113A	S113A	617.435	4499.733	7.92	242	0.30	12.80	321.89	3.632	0.8292
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW20	113B	S113B	617.435	4499.733	15.24	242	0.61	12.13	321.89	0.097	0.0221
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW21	113C	Z113C	617.435	4499.733	0.61	242	0.82	7.86	295.22	0.036	0.0082
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW22	113D	S25C	617.435	4499.733	15.24	242	0.61	24.26	810.78	0.216	0.0493

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PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW23	115A	S27A	617.435	4499.733	18.29	242	0.91	7.32	810.78	0.064	0.0147
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW24	115A	S27B	617.435	4499.733	18.29	242	0.91	7.19	810.78	0.064	0.0147
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW25	115B	S115B	617.435	4499.733	17.68	242	1.07	10.92	400.78	3.359	0.7670
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW26	121B	Z121B	617.435	4499.733	0.61	242	1.22	10.39	295.22	1.175	0.2683
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA1	101	S01	638.194	4465.255	7.62	311	1.77	21.60	310.22	1.570	0.3584
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA2	102	S02	638.194	4465.255	17.68	311	1.07	10.92	400.78	0.860	0.1964
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA3	103	Z03	638.194	4465.255	0.61	311	1.34	10.52	295.22	0.698	0.1594
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG1	101	S101	621.198	4449.907	53.34	370	1.22	24.08	574.67	2.824	0.6447
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG2	102	S102	621.198	4449.907	17.68	370	1.04	8.42	497.44	0.770	0.1758
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG3	104	S104	621.198	4449.907	23.16	370	0.61	0.69	477.44	0.077	0.0175
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG4	105	S105	621.198	4449.907	23.16	370	0.61	0.83	477.44	0.048	0.0108
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG5	107	S107	621.198	4449.907	23.16	370	0.30	10.35	485.78	0.027	0.0062
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG6	110	S110	621.198	4449.907	11.28	370	0.54	6.31	500.78	0.181	0.0413
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG7	113	S113	621.198	4449.907	20.73	370	1.15	7.50	485.78	0.056	0.0127
PA	Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	CHSRDG	32	S02	639.449	4465.423	22.86	313	0.67	1.34	394.11	0.028	0.0065
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP1	31	S031	624.894	4443.205	12.50	323	0.59	6.38	491.33	0.020	0.0045
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP2	105	S05	624.894	4443.205	7.92	323	0.37	21.26	293.00	0.009	0.0020
PA	Westmoreland	COLUMBIA GAS TRANS C/DELMONT COMPRES	CLMDEL	101	S01	621.901	4471.713	8.23	312	0.44	17.46	669.11	0.014	0.0033
PA	Westmoreland	DOMINION PEOPLES/LATROBE STATION	DOMLA	101	S01	632.811	4463.038	8.23	326	0.44	17.46	669.11	0.119	0.0271
PA	Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	DOMLH	104	S04	617.340	4462.014	9.14	398	0.49	20.86	633.00	0.144	0.0330
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK1	32	S14	622.279	4473.474	9.75	347	0.61	9.66	505.22	0.088	0.0201
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK2	112	S12	622.279	4473.474	8.84	347	0.61	16.80	588.56	2.867	0.6545
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK3	113	S15	622.279	4473.474	4.57	347	0.49	20.40	421.89	0.033	0.0075
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK4	116	S19	622.279	4473.474	9.14	347	0.24	10.10	449.67	0.002	0.0005
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO1	31	S03	623.247	4471.435	6.40	381	0.30	0.72	449.67	0.003	0.0007
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO2	102	S02	623.247	4471.435	14.93	381	1.52	13.80	671.89	1.266	0.2890
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO3	103	S05	623.247	4471.435	10.97	381	0.62	20.58	639.67	0.004	0.0010
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO4	105	S04	623.247	4471.435	14.02	381	0.61	0.72	449.67	0.008	0.0018
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN1	31	S01	615.601	4479.974	11.28	319	0.56	6.28	494.11	0.002	0.0004
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN2	101	S03	615.601	4479.974	9.14	319	0.49	20.86	633.00	0.001	0.0002
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN3	102	S02	615.601	4479.974	8.23	319	0.44	17.46	669.11	0.723	0.1650
PA	Westmoreland	DURA BOND IND INC/EXPORT STEEL PLT	DRBND	101SA	S01	616.426	4475.990	9.14	301	0.30	0.65	294.11	25.974	5.9301
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY1	102	Z02	620.501	4439.714	0.61	319	1.13	13.26	295.22	0.133	0.0303
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY2	103	Z03	620.501	4439.714	0.61	319	1.13	17.13	295.22	0.748	0.1708
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY3	105	S05	620.501	4439.714	9.45	319	0.61	11.68	304.11	0.179	0.0408
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY4	106	Z06	620.501	4439.714	0.61	319	2.07	9.85	295.22	0.497	0.1134
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY5	107	Z07	620.501	4439.714	0.61	319	1.13	12.19	295.22	4.634	1.0579
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY6	108	Z08	620.501	4439.714	0.61	319	0.79	13.08	295.22	0.336	0.0768
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY7	109	S09	620.501	4439.714	7.92	319	0.69	14.18	302.44	0.522	0.1192
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY8	110	Z110	620.501	4439.714	0.61	319	0.70	9.54	295.22	2.317	0.5289
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY9	111	S111	620.501	4439.714	12.50	319	0.59	6.38	491.33	0.099	0.0226
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ1	31	S02	618.000	4466.011	20.73	312	0.91	12.60	1088.56	0.004	0.0009
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ2	33	S04	618.000	4466.011	13.11	312	1.52	10.19	1088.56	0.002	0.0003
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ3	34	Z03	618.000	4466.011	10.67	312	0.43	6.55	295.22	0.032	0.0073

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PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ4	35	S14	618.000	4466.011	10.67	312	0.30	0.65	497.44	0.013	0.0029
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ5	36	S03	618.000	4466.011	20.73	312	0.91	22.00	1088.56	0.579	0.1321
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ6	101	Z01	618.000	4466.011	10.67	313	0.67	7.80	295.22	1.470	0.3356
PA	Westmoreland	EQUITRANS INC/SLEEPY HOLLOW COMPRES S	EQTNSL	101	S01	623.743	4469.112	8.23	385	0.44	17.46	669.11	0.006	0.0015
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC1	101	Z05	620.497	4442.612	0.61	335	0.73	5.88	295.22	0.048	0.0110
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC2	104	S02	620.497	4442.612	15.24	335	3.23	9.25	1088.56	0.471	0.1076
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC3	106	Z06	620.497	4442.612	0.61	335	1.16	6.80	295.22	37.594	8.5830
PA	Westmoreland	HUNTINGTON FOAM PITT/MT PLEASANT	HUNTFM	31	S031	618.999	4445.209	20.73	377	1.15	7.50	485.78	0.040	0.0092
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM1	32	S11	593.794	4446.286	38.40	235	1.74	7.29	435.78	1.994	0.4552
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM2	801	Z05	593.794	4446.286	10.67	235	2.35	6.58	295.22	0.089	0.0204
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM3	802	S02	593.794	4446.286	30.48	235	1.52	0.65	388.56	2.563	0.5851
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM4	802	Z06	593.794	4446.286	7.62	235	2.10	6.77	295.22	2.563	0.5851
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM5	803	S05	593.794	4446.286	18.29	235	4.57	2.68	366.33	7.920	1.8081
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM6	805	S06	593.794	4446.286	79.55	235	2.44	7.96	588.56	8.617	1.9674
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM7	806	Z07	593.794	4446.286	7.62	235	2.65	4.88	295.22	5.453	1.2449
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM8	807	Z08	593.794	4446.286	9.14	235	1.58	4.42	295.22	0.143	0.0327
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM9	808	Z06	593.794	4446.286	7.62	235	1.58	4.42	295.22	3.248	0.7416
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM10	809	S09	593.794	4446.286	121.91	235	0.61	4.04	449.67	2.918	0.6662
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM11	810	Z10	593.794	4446.286	0.61	235	1.46	7.92	295.22	3.592	0.8201
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP1	31	S031	636.598	4464.715	33.53	308	1.10	3.23	533.00	0.122	0.0279
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP2	102	S102	636.598	4464.715	11.89	308	0.89	22.23	598.00	0.013	0.0031
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW1	31	S31	636.897	4464.610	17.68	297	1.04	8.42	497.44	0.268	0.0612
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW2	101	S01	636.897	4464.610	10.67	297	0.76	8.05	348.56	0.195	0.0445
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM1	31	S03	629.653	4487.833	10.67	258	0.30	0.65	699.67	0.785	0.1793
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM2	101	S01	629.653	4487.833	12.19	258	1.22	0.04	294.11	0.594	0.1357
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM3	101	Z01	629.653	4487.833	9.14	258	1.98	14.78	295.22	0.200	0.0457
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM4	102	S04	629.653	4487.833	10.67	258	0.30	0.65	338.00	25.017	5.7117
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM5	103	Z103	629.653	4487.833	0.61	258	1.25	18.14	295.22	20.730	4.7329
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM6	104	S06	629.653	4487.833	10.67	258	0.30	0.65	494.11	0.002	0.0005
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM7	105	S07	629.653	4487.833	10.67	258	0.30	0.65	304.11	0.062	0.0141
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM8	106	S08	629.653	4487.833	10.67	258	0.30	0.65	294.11	0.415	0.0947
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM9	107	S09	629.653	4487.833	15.85	258	1.01	14.90	303.00	0.256	0.0585
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM10	107	Z07	629.653	4487.833	0.61	258	1.13	13.47	295.22	0.003	0.0006
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM11	110	Z10	629.653	4487.833	0.61	258	0.43	6.55	295.22	0.441	0.1008
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA1	35	S05	617.368	4464.580	13.72	299	0.61	0.81	497.44	0.006	0.0014
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA2	36	S06	617.368	4464.580	17.68	299	1.04	8.42	497.44	0.085	0.0195
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA3	221	E1	617.368	4464.580	10.97	299	0.91	5.87	313.00	2.121	0.4842
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR1	31	S01	647.783	4473.367	19.81	343	1.52	15.04	449.67	0.200	0.0455
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR2	32	S02	647.783	4473.367	76.20	343	3.66	4.97	421.89	1.665	0.3801
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR3	101	S101	647.783	4473.367	8.23	343	0.44	8.71	498.56	0.002	0.0005
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR4	102	S102	647.783	4473.367	8.53	343	0.38	22.38	603.56	0.011	0.0025
PA	Westmoreland	POLY HI SOLIDUR INC/DELMONT PLT	POLYHI	31	S01	621.009	4475.918	17.68	363	1.04	8.42	497.44	0.134	0.0305
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR1	102	Z01	613.805	4446.672	7.62	292	0.91	3.84	295.22	0.480	0.1097
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR2	104	S02	613.805	4446.672	10.67	292	0.91	8.62	500.78	0.065	0.0147

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PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY1	32	S032	621.146	4449.462	12.19	356	0.61	12.93	608.00	0.141	0.0321
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY2	34	S034	621.146	4449.462	13.11	356	0.76	11.64	491.33	0.887	0.2025
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY3	47	S047	621.146	4449.462	12.50	356	0.76	6.74	477.44	0.260	0.0593
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY4	51	S051	621.146	4449.462	10.67	356	0.15	3.39	491.33	0.016	0.0037
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY5	52	S052	621.146	4449.462	10.67	356	0.15	2.59	491.33	0.014	0.0032
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY6	107	S107	621.146	4449.462	21.33	356	0.70	9.17	310.78	1.293	0.2951
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY7	108	S108	621.146	4449.462	10.67	356	0.30	4.53	294.11	1.150	0.2626
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY8	109	S109	621.146	4449.462	10.67	356	0.15	3.91	294.11	0.035	0.0079
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY9	110	S110	621.146	4449.462	10.67	356	0.30	6.47	294.11	0.017	0.0039
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY10	119	S119	621.146	4449.462	9.14	356	0.30	12.94	366.33	0.047	0.0108
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY11	123	S037	621.146	4449.462	9.45	356	0.30	6.47	500.78	0.039	0.0089
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY12	126	S049	621.146	4449.462	11.28	356	0.54	6.31	500.78	0.029	0.0065
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY13	127	S040	621.146	4449.462	12.19	356	1.22	1.25	399.67	0.197	0.0449
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY14	128	S041	621.146	4449.462	13.11	356	0.61	5.14	399.67	0.093	0.0213
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY15	130	S043	621.146	4449.462	12.80	356	0.43	5.83	491.33	0.101	0.0230
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY16	132	S048	621.146	4449.462	12.19	356	0.55	17.70	477.44	0.162	0.0371
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY17	135	S122	621.146	4449.462	15.24	356	0.30	29.11	294.11	0.017	0.0038
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY18	137	S124	621.146	4449.462	18.29	356	0.46	28.75	305.22	0.033	0.0076
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY19	138	S125	621.146	4449.462	9.45	356	0.50	7.79	324.67	0.002	0.0004
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY20	139	S126	621.146	4449.462	10.67	356	0.76	7.24	491.33	0.001	0.0003
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY21	141	S123	621.146	4449.462	15.24	356	1.07	14.26	294.11	0.413	0.0943
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY22	142	S128	621.146	4449.462	13.72	356	0.46	6.90	299.67	0.017	0.0038
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY23	143	Z143	621.146	4449.462	1.52	356	0.82	7.86	295.22	0.011	0.0025
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY24	144	S144	621.146	4449.462	10.67	356	0.15	20.70	421.89	0.004	0.0009
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY25	145	S145	621.146	4449.462	12.19	356	0.55	13.58	465.22	0.006	0.0014
PA	Westmoreland	ST GEORGE CRYSTAL LTD/JEANNETTE	STGCRS	101	S01	618.600	4465.110	15.24	309	0.61	11.32	477.44	1.115	0.2545
PA	Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	STVNCT	31	S031	636.295	4461.712	17.68	344	1.04	8.42	497.44	0.885	0.2021
PA	Westmoreland	STD STEEL/LATROBE	STDSL1	33	S04	637.612	4463.157	60.96	311	3.05	0.85	435.78	0.563	0.1284
PA	Westmoreland	STD STEEL/LATROBE	STDSL2	101	S01	637.612	4463.157	25.91	311	3.74	9.10	350.22	5.032	1.1488
PA	Westmoreland	STD STEEL/LATROBE	STDSL3	102	Z01	637.612	4463.157	12.19	311	0.98	2.47	295.22	0.473	0.1080
PA	Westmoreland	STD STEEL/LATROBE	STDSL4	103	S03	637.612	4463.157	4.57	311	0.91	20.48	338.56	0.020	0.0046
PA	Westmoreland	STD STEEL/LATROBE	STDSL5	104	S10	637.612	4463.157	8.84	311	0.72	13.64	303.00	0.001	0.0003
PA	Westmoreland	STD STEEL/LATROBE	STDSL6	105	Z05	637.612	4463.157	0.61	311	0.82	7.86	295.22	0.368	0.0840
PA	Westmoreland	STD STEEL/LATROBE	STDSL7	107	S07	637.612	4463.157	10.36	311	0.48	4.92	369.11	0.087	0.0197
PA	Westmoreland	STD STEEL/LATROBE	STDSL8	109	S09	637.612	4463.157	11.28	311	0.56	6.28	494.11	0.430	0.0982
PA	Westmoreland	SUMMERILL TUBE CORP/SCOTTDALE PLT	SUMMRL	103	S103	620.674	4440.616	17.68	313	1.04	8.42	497.44	0.015	0.0034
PA	Westmoreland	SUNOCO PARTNERS M&T/DELMONT FACILITY	SUNDEL	101	S03	620.935	4476.317	7.62	391	1.00	3.33	418.56	0.040	0.0091
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL1	109	S09	624.145	4499.576	17.07	388	0.37	23.88	788.56	1.107	0.2527
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL2	113	S13	624.145	4499.576	8.23	388	0.44	17.46	669.11	1.209	0.2760
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL3	118	S118	624.145	4499.576	12.19	388	1.60	16.22	640.22	1.244	0.2841
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN1	31	S31	638.479	4462.729	12.19	313	1.52	2.59	497.44	0.304	0.0694
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN2	43	S43	638.479	4462.729	11.28	313	0.56	6.28	494.11	0.173	0.0395
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN3	101	S56	638.479	4462.729	22.86	313	3.05	29.11	366.33	2.904	0.6630
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN4	102	S03	638.479	4462.729	15.24	313	1.95	24.16	310.78	2.647	0.6044

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PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN5	103	Z03	638.479	4462.729	0.61	313	0.98	2.47	295.22	0.555	0.1266
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN6	104	S04	638.479	4462.729	17.68	313	1.07	10.92	400.78	0.018	0.0042
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN7	105	S05	638.479	4462.729	14.02	313	0.46	2.87	294.11	0.077	0.0175
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN8	107	S07	638.479	4462.729	3.35	313	0.61	12.94	294.11	0.203	0.0463
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN9	109	S09	638.479	4462.729	10.36	313	0.61	10.50	294.11	0.946	0.2160
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN10	110	S10	638.479	4462.729	9.14	313	1.52	0.97	310.78	0.034	0.0078
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN11	111	S11	638.479	4462.729	14.02	313	0.61	16.20	294.11	0.038	0.0087
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN12	112	Z12	638.479	4462.729	3.05	313	1.77	8.02	295.22	0.194	0.0444
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN13	113	Z13	638.479	4462.729	0.61	313	1.77	8.02	295.22	0.217	0.0495
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN14	114	S55	638.479	4462.729	9.75	313	0.76	12.42	294.11	0.001	0.0003
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN15	120	S47	638.479	4462.729	3.66	313	0.30	1.29	477.44	0.640	0.1460
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN16	128	S40	638.479	4462.729	0.61	313	0.91	10.30	295.22	2.434	0.5557
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN17	130	S50	638.479	4462.729	3.66	313	0.30	2.59	477.44	1.013	0.2312
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN18	131	S42	638.479	4462.729	15.54	313	0.88	9.94	453.56	0.836	0.1910
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN19	132	S51	638.479	4462.729	18.29	313	1.01	0.12	477.44	0.546	0.1247
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN20	137	S54	638.479	4462.729	9.14	313	0.37	18.87	294.11	0.494	0.1128
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN21	139	Z139	638.479	4462.729	0.61	313	2.01	11.03	295.22	0.551	0.1259
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN22	140	Z140	638.479	4462.729	0.61	313	2.38	6.00	295.22	0.146	0.0334
PA	Westmoreland	USA VALLEY FAC INC/VALLEY LDFL	USAVAL	102	Z01	612.520	4471.689	0.61	360	0.55	16.28	295.22	2.533	0.5784
PA	Westmoreland	WESTMORELAND WASTE LLC/SANITARY LDFL	WESWST	101	S01	597.397	4444.311	4.57	286	0.91	0.86	366.33	0.563	0.1285
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA1	101	S101	636.798	4462.609	10.36	309	0.58	4.45	511.33	0.030	0.0067
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA2	102	S102	636.798	4462.609	13.72	309	0.77	9.73	358.56	5.192	1.1853
			Ohio Sources (w/o EGUs)											
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART1	B001	5	524.378	4438.785	16.15	210	1.22	40.42	477.44	0.030	0.0068
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART2	B010	6	524.377	4438.896	6.40	210	0.46	8.62	477.44	0.060	0.0137
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART3	F001	F001	524.122	4438.895	38.71	210	1.43	7.19	430.78	0.032	0.0073
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART4	F001	F001	524.122	4438.895	36.88	210	1.19	5.58	401.89	0.022	0.0051
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART5	P902	7	524.377	4438.896	21.33	210	0.91	14.37	327.44	0.935	0.2136
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART6	P903	8	524.377	4438.896	24.38	210	0.91	14.37	327.44	1.566	0.3575
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE1	B002	2	533.645	4463.129	42.67	209	3.05	6.06	449.67	7.883	1.7997
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE2	B004	4	533.645	4463.129	42.67	209	3.05	6.06	544.11	8.052	1.8383
OH	Jefferson	TITANIUM METALS CORPORATION	TITN1	B010	19	532.989	4477.112	10.36	216	0.56	4.79	463.56	0.080	0.0183
OH	Jefferson	TITANIUM METALS CORPORATION	TITN2	P003	9	533.242	4477.335	18.29	216	1.42	9.77	299.67	2.078	0.4744
OH	Jefferson	TITANIUM METALS CORPORATION	TITN3	P004	12	533.159	4477.112	8.84	216	1.24	19.52	296.89	3.776	0.8620
OH	Jefferson	TITANIUM METALS CORPORATION	TITN4	P020	3	533.158	4477.334	27.43	216	1.38	1.05	1088.56	0.010	0.0023
OH	Jefferson	TITANIUM METALS CORPORATION	TITN5	P037	7	532.989	4477.001	22.25	216	0.49	6.70	310.78	4.967	1.1339
OH	Jefferson	TITANIUM METALS CORPORATION	TITN6	P039	17	532.988	4477.334	16.46	216	1.22	16.17	296.89	0.963	0.2198
OH	Jefferson	TITANIUM METALS CORPORATION	TITN7	P041	6	533.074	4477.001	11.58	216	1.22	18.19	310.78	16.775	3.8299
OH	Jefferson	TITANIUM METALS CORPORATION	TITN8	P044	1	533.242	4477.446	16.15	216	0.91	10.30	294.11	0.070	0.0160
OH	Jefferson	TITANIUM METALS CORPORATION	TITN9	P046	4	533.158	4477.334	22.86	216	1.38	1.05	1088.56	0.010	0.0023
OH	Jefferson	TITANIUM METALS CORPORATION	TITN10	P050	8	532.989	4477.112	19.81	216	1.01	11.66	310.78	9.618	2.1959
OH	Jefferson	TITANIUM METALS CORPORATION	TITN11	P051	5	533.158	4477.223	22.86	216	1.38	2.09	1088.56	0.020	0.0046
OH	Jefferson	TITANIUM METALS CORPORATION	TITN12	P054	10	533.157	4477.445	5.18	216	0.84	14.79	303.00	0.291	0.0665
OH	Jefferson	TITANIUM METALS CORPORATION	TITN13	P057	11	533.158	4477.334	5.18	216	0.84	24.66	300.22	0.646	0.1475

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
OH	Jefferson	TITANIUM METALS CORPORATION	TITN14	P067	20	533.242	4477.446	9.14	216	0.84	21.23	302.44	1.634	0.3732
OH	Jefferson	TITANIUM METALS CORPORATION	TITN15	P074	16	533.158	4477.223	19.81	216	1.37	8.59	1588.56	0.240	0.0548
OH	Jefferson	TITANIUM METALS CORPORATION	TITN16	Z093	1	533.242	4477.446	19.81	216	1.13	8.20	294.11	0.080	0.0183
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING1	F005	35	533.732	4462.685	20.12	209	1.29	18.78	283.00	1.979	0.4518
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING2	F006	6	533.986	4463.019	29.26	209	2.01	11.03	283.00	0.877	0.2003
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING3	F009	38	533.647	4462.685	9.14	209	2.75	18.44	410.78	9.211	2.1029
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING4	F010	F010	533.986	4463.019	30.78	209	2.96	10.61	412.44	5.161	1.1784
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING5	F101	F101	533.986	4463.019	36.88	209	1.19	5.58	401.89	3.207	0.7321
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING6	F104	6	533.986	4463.019	49.38	209	3.93	3.99	283.00	6.446	1.4718
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING7	P008	42	533.393	4462.461	56.99	209	3.96	2.18	783.00	8.667	1.9787
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING8	P013	3	533.986	4463.019	19.81	209	1.13	8.20	294.11	0.360	0.0822
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING9	P903	25	533.645	4463.129	71.32	209	3.05	8.55	574.67	46.033	10.5098
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING10	P907	37	533.732	4462.796	19.20	209	1.75	17.54	377.44	13.495	3.0810
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING11	P908	39	533.563	4462.573	19.20	209	1.52	10.35	310.78	1.673	0.3819
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING12	X002	36	533.563	4462.573	53.95	209	3.96	9.94	324.67	146.758	33.5063
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING13	Z002	43	533.732	4462.685	53.64	209	1.52	24.58	1088.56	0.649	0.1481
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING14	Z020	6	533.986	4463.019	41.76	209	2.04	9.97	283.00	0.411	0.0939
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING15	Z021	6	533.986	4463.019	17.37	209	4.54	10.55	283.00	0.462	0.1054
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB1	B105	8	532.697	4466.232	77.42	203	3.43	1.74	588.56	6.351	1.4501
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB2	B108	11	532.697	4466.232	35.66	203	2.44	7.39	505.22	28.855	6.5879
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB3	B152	12	532.612	4466.232	10.67	203	1.52	10.10	588.56	0.200	0.0457
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB4	P911	13	532.697	4466.232	55.78	203	1.83	19.42	574.67	26.560	6.0639
West Virginia Sources (w/o EGUs)														
WV	Brooke	BALL METAL FOOD CONTAINER CORP.	BALMFC	C00	1	531.912	4471.113	12.19	224	1.31	6.16	653.00	1.553	0.3546
WV	Brooke	BROOKE COUNTY LANDFILL	BROOK	1	NONSTK	535.821	4470.132	3.05	333	0.00	0.00	295.22	10.213	2.3318
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN1	4	4	532.168	4470.781	8.23	222	0.76	6.10	449.67	0.033	0.0076
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN2	7	7	532.168	4470.781	16.76	222	1.37	8.99	588.56	0.980	0.2237
WV	Brooke	IMPRESS USA, INC	IMPRS1	3	4	531.824	4471.779	10.97	223	0.46	7.09	449.67	0.447	0.1020
WV	Brooke	IMPRESS USA, INC	IMPRS2	12	9	531.824	4471.779	7.31	223	0.20	9.94	255.22	0.067	0.0153
WV	Brooke	IMPRESS USA, INC	IMPRS3	16	11	531.824	4471.779	10.97	223	0.49	6.06	449.67	0.177	0.0403
WV	Brooke	IMPRESS USA, INC	IMPRS4	18	13	531.824	4471.779	12.50	223	0.51	5.57	449.67	0.223	0.0510
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF1	770	770	533.459	4466.680	0.30	218	0.30	6.38	294.11	0.030	0.0069
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF2	771	771	533.459	4466.680	9.14	218	0.91	21.33	294.11	0.073	0.0167
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF3	773	773	533.459	4466.680	14.93	218	4.72	0.14	755.22	0.131	0.0299
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF4	774	774	533.459	4466.680	18.29	218	0.46	0.09	1366.33	0.040	0.0091
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF5	831	831	533.459	4466.680	30.48	218	3.05	0.03	560.78	2.900	0.6621
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF6	881	881	533.459	4466.680	23.47	218	0.79	7.16	605.22	0.131	0.0299
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF7	992	992	533.459	4466.680	30.48	218	3.05	0.03	533.00	1.200	0.2740
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF8	993	993	533.459	4466.680	24.38	218	3.05	0.03	533.00	1.477	0.3373
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF9	995	995	533.459	4466.680	24.99	218	1.37	22.07	449.67	5.240	1.1963
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF10	LRF	NONSTK	533.459	4466.680	3.05	218	0.00	0.00	295.22	0.257	0.0586
WV	Brooke	NESTLE PURINA PETCARE COMPANY	NESTL	1	1	532.167	4471.114	12.19	223	0.61	8.53	728.56	0.930	0.2123
WV	Brooke	ROLL COATER, INC.	ROLL1	04S	4	534.035	4470.900	17.68	210	2.58	9.75	1088.56	1.773	0.4049
WV	Brooke	ROLL COATER, INC.	ROLL2	07S	7	534.035	4470.900	17.68	210	0.46	16.67	294.11	1.310	0.2991

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WV	Brooke	ROLL COATER, INC.	ROLL3	08S	NONSTK	534.035	4470.900	3.05	210	0.00	0.00	295.22	35.760	8.1644
WV	Brooke	UNITED STATES CAN COMPANY	USCAN1	2	14	532.082	4471.003	10.67	223	0.91	3.96	421.89	1.080	0.2465
WV	Brooke	UNITED STATES CAN COMPANY	USCAN2	5	NONSTK	532.082	4471.003	3.05	223	0.00	0.00	295.22	0.069	0.0158
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR1	2	7	528.842	4452.675	12.80	203	0.30	6.28	449.67	0.040	0.0092
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR2	3	4	528.842	4452.675	13.72	203	0.61	7.92	435.78	0.358	0.0818
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR3	6	NONSTK	528.842	4452.675	3.05	203	0.00	0.00	295.22	15.775	3.6015
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR4	8	8	528.842	4452.675	18.29	203	1.37	13.56	533.00	0.403	0.0921
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR5	8	9	528.842	4452.675	12.80	203	0.30	11.89	449.67	0.045	0.0102
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB1	2	2	533.377	4466.013	60.96	206	2.28	5.06	583.00	10.420	2.3790
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB4	3	7	533.377	4466.013	24.99	206	9.20	0.88	394.11	18.690	4.2671
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB3	3	5	533.377	4466.013	13.11	206	0.70	23.19	333.00	18.310	4.1804
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB2	3	3	533.377	4466.013	60.96	206	2.44	5.00	588.56	5.290	1.2078
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB8	4	NONSTK	533.377	4466.013	3.05	206	0.00	0.00	295.22	76.253	17.4095
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB6	4	6	533.377	4466.013	18.29	206	2.28	13.41	318.00	35.140	8.0228
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB7	4	8	533.377	4466.013	22.86	206	11.30	0.88	394.11	32.300	7.3744
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB5	4	4	533.377	4466.013	76.20	206	3.96	8.32	596.89	29.210	6.6689
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB9	17	11	533.377	4466.013	60.96	206	2.74	10.09	450.78	5.767	1.3166
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB10	19	12	533.377	4466.013	6.10	206	0.61	8.42	568.00	1.117	0.2550
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB11	21	15	533.377	4466.013	24.38	206	0.51	10.45	316.33	14.060	3.2100
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB12	24	14	533.377	4466.013	63.40	206	5.67	19.99	1273.00	5.317	1.2139
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN1	1	1	530.962	4495.418	38.10	205	0.91	14.32	633.00	0.753	0.1720
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN2	1	2	530.962	4495.418	38.10	205	1.07	4.88	744.11	0.285	0.0650
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN3	2	3	530.962	4495.418	38.10	205	0.61	3.57	775.78	0.044	0.0100
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN4	4	7	530.962	4495.418	41.15	205	1.68	6.16	714.11	0.743	0.1697
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN5	5	8	530.962	4495.418	38.10	205	1.98	1.95	490.22	0.536	0.1224
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN6	5	9	530.962	4495.418	30.48	205	0.76	3.57	539.67	0.031	0.0070
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN7	6	10	530.962	4495.418	41.15	205	0.76	3.57	539.67	0.083	0.0189
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN8	7	5	530.962	4495.418	45.72	205	1.83	11.58	466.89	7.967	1.8190
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN9	14	16	530.962	4495.418	10.67	205	2.44	3.26	1033.00	0.034	0.0078
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN10	26	21	530.962	4495.418	4.57	205	0.05	1.01	421.89	0.010	0.0023
WV	Hancock	ISG WEIRTON	ISG2	26	950	533.678	4474.673	3.05	224	0.00	0.00	295.22	886.696	202.4421
WV	Hancock	ISG WEIRTON	ISG1	26	920	533.678	4474.673	76.20	224	3.35	4.57	559.67	438.460	100.1050
WV	Hancock	ISG WEIRTON	ISG3	26	951	533.678	4474.673	45.72	224	3.51	4.08	324.11	4.680	1.0685
WV	Hancock	ISG WEIRTON	ISG4	29	923	533.678	4474.673	60.96	224	3.35	3.05	559.67	623.210	142.2854
WV	Hancock	ISG WEIRTON	ISG5	30	927	533.678	4474.673	60.96	224	5.18	6.40	335.78	3133.013	715.2998
WV	Hancock	ISG WEIRTON	ISG8	30	932	533.678	4474.673	17.07	224	1.52	8.53	310.78	18.190	4.1530
WV	Hancock	ISG WEIRTON	ISG6	30	930	533.678	4474.673	27.74	224	2.59	13.41	408.00	0.650	0.1484
WV	Hancock	ISG WEIRTON	ISG7	30	931	533.678	4474.673	73.15	224	0.49	16.76	366.33	0.320	0.0731
WV	Hancock	ISG WEIRTON	ISG9	34	101	533.678	4474.673	76.20	224	3.66	10.67	885.78	29.487	6.7321
WV	Hancock	ISG WEIRTON	ISG10	57	301	533.678	4474.673	12.80	224	1.22	7.01	579.67	2.327	0.5312
WV	Hancock	ISG WEIRTON	ISG11	89	405	533.678	4474.673	52.42	224	3.05	15.85	487.44	6.636	1.5150
WV	Hancock	ISG WEIRTON	ISG12	90	406	533.678	4474.673	63.09	224	4.88	8.23	313.00	10.512	2.4000
WV	Hancock	ISG WEIRTON	ISG13	91	407	533.678	4474.673	54.86	224	3.35	17.98	455.22	19.159	4.3742
WV	Hancock	ISG WEIRTON	ISG14	92	408	533.678	4474.673	68.58	224	3.05	2.44	505.22	24.474	5.5878

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WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL2	1	13	532.902	4496.870	8.53	222	0.61	2.59	294.11	0.087	0.0198
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL1	1	1	532.902	4496.870	17.37	222	0.31	5.18	294.11	0.033	0.0076
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL6	3	10	532.902	4496.870	14.02	222	0.91	0.64	449.67	0.486	0.1110
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL3	3	2	532.902	4496.870	11.89	222	0.61	0.49	449.67	0.260	0.0593
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL8	3	47	532.902	4496.870	13.72	222	0.91	2.59	449.67	0.139	0.0317
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL7	3	44	532.902	4496.870	13.41	222	0.91	0.64	449.67	0.121	0.0276
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL4	3	5	532.902	4496.870	12.80	222	0.61	0.55	449.67	0.069	0.0158
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL5	3	7	532.902	4496.870	13.11	222	0.46	0.12	449.67	0.016	0.0036
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL11	4	33	532.902	4496.870	9.75	222	0.13	0.18	324.67	0.016	0.0037
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL9	4	17	532.902	4496.870	13.72	222	0.15	0.43	324.67	0.015	0.0035
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL12	4	49	532.902	4496.870	13.72	222	0.30	1.01	324.67	0.010	0.0022
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL10	4	19	532.902	4496.870	13.41	222	0.30	1.01	324.67	0.006	0.0013
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL19	5	46	532.902	4496.870	11.28	222	0.61	4.88	294.11	14.943	3.4117
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL20	5	50	532.902	4496.870	12.80	222	0.40	12.74	294.11	9.550	2.1804
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL13	5	22	532.902	4496.870	12.80	222	0.40	12.01	294.11	5.700	1.3014
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL14	5	23	532.902	4496.870	12.50	222	0.41	8.75	294.11	4.320	0.9863
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL15	5	24	532.902	4496.870	13.41	222	0.41	30.94	294.11	0.830	0.1895
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL16	5	25	532.902	4496.870	11.28	222	0.61	13.75	294.11	0.580	0.1324
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL21	5	51	532.902	4496.870	7.62	222	0.36	4.02	294.11	0.180	0.0411
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL17	5	26	532.902	4496.870	14.32	222	0.41	9.11	294.11	0.040	0.0091
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL18	5	27	532.902	4496.870	13.41	222	0.41	9.11	294.11	0.030	0.0068
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL22	7	30	532.902	4496.870	10.36	222	0.15	0.88	294.11	0.457	0.1043
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL23	7	31	532.902	4496.870	10.06	222	0.61	0.98	294.11	0.317	0.0723
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL24	10	NONSTK	532.902	4496.870	3.05	222	0.00	0.00	295.22	2.275	0.5195
WV	Marshall	BAYER CORPORATION	BAYR1	12	14	514.656	4396.473	3.05	195	0.40	11.61	294.11	0.213	0.0487
WV	Marshall	BAYER CORPORATION	BAYR2	13	149	514.656	4396.473	25.60	195	0.25	3.81	294.11	0.060	0.0137
WV	Marshall	BAYER CORPORATION	BAYR3	22	5	514.656	4396.473	15.24	195	1.83	13.81	431.89	0.829	0.1892
WV	Marshall	BAYER CORPORATION	BAYR19	28	123	514.656	4396.473	40.23	195	1.01	15.64	383.56	2.160	0.4932
WV	Marshall	BAYER CORPORATION	BAYR15	28	116	514.656	4396.473	39.32	195	0.89	7.50	523.00	0.850	0.1941
WV	Marshall	BAYER CORPORATION	BAYR16	28	117	514.656	4396.473	29.26	195	0.65	12.80	423.00	0.680	0.1553
WV	Marshall	BAYER CORPORATION	BAYR11	28	112	514.656	4396.473	32.92	195	0.51	15.36	288.56	0.360	0.0822
WV	Marshall	BAYER CORPORATION	BAYR4	28	104	514.656	4396.473	28.35	195	0.55	1.55	288.56	0.270	0.0616
WV	Marshall	BAYER CORPORATION	BAYR18	28	122	514.656	4396.473	40.23	195	0.30	9.08	323.00	0.250	0.0571
WV	Marshall	BAYER CORPORATION	BAYR14	28	115	514.656	4396.473	39.32	195	0.69	3.57	373.00	0.190	0.0434
WV	Marshall	BAYER CORPORATION	BAYR12	28	113	514.656	4396.473	29.26	195	0.37	15.36	288.56	0.190	0.0434
WV	Marshall	BAYER CORPORATION	BAYR21	28	NONSTK	514.656	4396.473	3.05	195	0.00	0.00	295.22	0.190	0.0434
WV	Marshall	BAYER CORPORATION	BAYR9	28	110	514.656	4396.473	32.92	195	0.49	17.65	288.56	0.180	0.0411
WV	Marshall	BAYER CORPORATION	BAYR10	28	111	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.150	0.0342
WV	Marshall	BAYER CORPORATION	BAYR5	28	105	514.656	4396.473	33.53	195	0.40	14.48	294.11	0.110	0.0251
WV	Marshall	BAYER CORPORATION	BAYR7	28	108	514.656	4396.473	32.92	195	0.46	16.92	288.56	0.110	0.0251
WV	Marshall	BAYER CORPORATION	BAYR13	28	114	514.656	4396.473	39.32	195	0.69	3.57	423.00	0.100	0.0228
WV	Marshall	BAYER CORPORATION	BAYR6	28	106	514.656	4396.473	32.92	195	0.37	15.24	288.56	0.100	0.0228
WV	Marshall	BAYER CORPORATION	BAYR8	28	109	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.100	0.0228
WV	Marshall	BAYER CORPORATION	BAYR17	28	118	514.656	4396.473	32.00	195	0.41	15.03	334.11	0.080	0.0183

State	County	Facility Name	ID	Device ID	Stack ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (TPY)	PM25 (lb/hr)
WV	Marshall	BAYER CORPORATION	BAYR20	28	125	514.656	4396.473	27.13	195	0.25	10.42	293.00	0.080	0.0183
WV	Marshall	BAYER CORPORATION	BAYR22	11C	41	514.656	4396.473	30.48	195	0.46	27.43	327.44	0.193	0.0440
WV	Marshall	BAYER CORPORATION	BAYR23	22A	6	514.656	4396.473	15.24	195	1.83	8.63	453.00	0.526	0.1202
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA1	1	25	530.320	4401.846	7.31	234	0.46	8.29	449.67	0.090	0.0205
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA2	4	4	530.320	4401.846	10.06	234	0.46	21.73	644.11	1.534	0.3503
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA3	6	6	530.320	4401.846	10.97	234	0.70	21.09	644.11	2.274	0.5193
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA4	19	12	530.320	4401.846	6.10	234	0.10	5.56	810.78	0.033	0.0075
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA5	22	23	530.320	4401.846	4.57	234	0.30	5.36	449.67	0.045	0.0102
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM1	4	4	540.909	4423.761	0.61	259	0.61	2.96	449.67	0.045	0.0102
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM2	19	14	540.909	4423.761	6.10	259	0.05	5.56	810.78	0.066	0.0150
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM3	22	21	540.909	4423.761	6.71	259	0.30	19.63	588.56	0.343	0.0782
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC1	1	1	515.324	4405.464	60.96	194	1.28	25.08	477.44	63.780	14.5616
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC2	4	4	515.324	4405.464	39.62	194	1.22	0.73	463.56	0.043	0.0099
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC3	6	6	515.324	4405.464	24.38	194	0.36	17.59	338.56	1.730	0.3950
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC4	7	7	515.324	4405.464	21.03	194	0.30	5.82	305.22	4.443	1.0145
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC5	8	8	515.324	4405.464	28.04	194	0.30	16.31	338.56	2.713	0.6195
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC6	10	10	515.324	4405.464	21.33	194	0.23	13.11	296.89	4.477	1.0221
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC7	11	11	515.324	4405.464	21.64	194	0.66	2.26	296.89	1.633	0.3729
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC8	12	12	515.324	4405.464	28.95	194	0.61	16.18	449.67	2.713	0.6195
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC9	13	13	515.324	4405.464	21.33	194	0.56	19.32	449.67	1.763	0.4026
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC10	15	15	515.324	4405.464	24.08	194	0.56	19.32	449.67	17.837	4.0723
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC11	17	17	515.324	4405.464	18.29	194	0.36	6.52	338.56	17.837	4.0723
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC12	18	18	515.324	4405.464	23.77	194	0.30	17.07	296.89	11.187	2.5540
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC13	19	19	515.324	4405.464	7.62	194	0.61	11.43	644.11	0.224	0.0511
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC14	21	21	515.324	4405.464	23.47	194	0.76	1.16	463.56	0.057	0.0129
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC15	32	22	515.324	4405.464	7.62	194	0.51	21.00	644.11	0.027	0.0061
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC16	01A	2	515.324	4405.464	60.96	194	1.49	8.66	588.56	0.033	0.0076
WV	Marshall	PPG INDUSTRIES, INC.	PPG1	2	77	513.624	4398.580	68.58	195	4.88	6.71	441.33	1.716	0.3918
WV	Marshall	PPG INDUSTRIES, INC.	PPG2	3	78	513.624	4398.580	90.83	195	2.74	24.38	445.78	1.497	0.3417
WV	Marshall	PPG INDUSTRIES, INC.	PPG3	4	79	513.624	4398.580	30.48	195	0.20	0.18	1399.67	0.008	0.0018
WV	Marshall	PPG INDUSTRIES, INC.	PPG4	15	86	513.624	4398.580	30.48	195	0.91	2.80	505.22	0.985	0.2250
WV	Marshall	PPG INDUSTRIES, INC.	PPG5	18	89	513.624	4398.580	49.38	195	1.37	1.46	533.00	0.403	0.0920
WV	Marshall	PPG INDUSTRIES, INC.	PPG6	19	90	513.624	4398.580	11.89	195	0.46	0.09	699.67	0.090	0.0205
WV	Marshall	PPG INDUSTRIES, INC.	PPG7	36	92	513.624	4398.580	30.48	195	0.76	10.27	685.78	0.078	0.0177
WV	Marshall	PPG INDUSTRIES, INC.	PPG8	46	NONSTK	513.624	4398.580	3.05	195	0.00	0.00	295.22	18.833	4.2998
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC1	K01	1	515.487	4409.682	57.91	200	3.81	19.54	1219.11	231.090	52.7603
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC2	K02	2	515.487	4409.682	57.91	200	3.81	22.19	1252.44	330.482	75.4526
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC4	L16	27	515.487	4409.682	3.66	200	0.48	10.06	288.56	0.083	0.0190
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC3	L16	5	515.487	4409.682	9.14	200	0.25	9.14	288.56	0.043	0.0099
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC5	P03	6	515.487	4409.682	36.27	200	1.52	21.00	469.67	77.460	17.6849
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC6	P03	13	515.487	4409.682	32.00	200	1.22	0.61	471.89	0.220	0.0502
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC9	P04	8	515.487	4409.682	10.97	200	0.45	12.19	310.78	0.680	0.1553
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC8	P04	7	515.487	4409.682	15.24	200	0.45	17.07	310.78	0.637	0.1454
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC11	P04	23	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.580	0.1324

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WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC7	P04	4	515.487	4409.682	5.79	200	0.55	18.29	288.56	0.350	0.0799
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC15	P04	32	515.487	4409.682	76.50	200	0.33	19.51	299.67	0.340	0.0776
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC14	P04	31	515.487	4409.682	32.31	200	0.33	19.81	299.67	0.310	0.0708
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC10	P04	18	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.290	0.0662
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC12	P04	24	515.487	4409.682	37.49	200	0.24	11.58	288.56	0.290	0.0662
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC13	P04	26	515.487	4409.682	10.97	200	0.58	5.49	288.56	0.030	0.0068
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC18	P05	20	515.487	4409.682	17.68	200	0.30	16.15	288.56	0.083	0.0190
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC17	P05	12	515.487	4409.682	18.59	200	0.34	10.06	288.56	0.043	0.0099
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC16	P05	9	515.487	4409.682	9.45	200	0.49	19.20	288.56	0.010	0.0023
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC19	P05	22	515.487	4409.682	3.96	200	0.27	13.11	288.56	0.010	0.0023
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC20	P06	3	515.487	4409.682	5.79	200	0.70	20.73	288.56	1.220	0.2785
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC21	P06	15	515.487	4409.682	29.87	200	0.30	5.49	288.56	0.137	0.0312
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC22	P06	16	515.487	4409.682	29.87	200	0.30	3.05	288.56	0.083	0.0190
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC23	P06	17	515.487	4409.682	28.04	200	0.30	3.05	288.56	0.067	0.0152
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC24	U11	21	515.487	4409.682	28.35	200	0.22	19.81	288.56	0.387	0.0883
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC25	U13	NONSTK	515.487	4409.682	3.05	200	0.00	0.00	295.22	20.597	4.7024
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL1	5	998	560.001	4396.138	0.30	309	0.30	3.78	255.22	5.030	1.1484
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL2	8	8	560.001	4396.138	27.43	309	2.44	14.32	324.11	12.130	2.7694
WV	Ohio	SHORT CREEK LANDFILL	SHRTCR	1	NONSTK	530.663	4444.246	3.05	331	0.00	0.00	295.22	2.700	0.6164
				EGUs										
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES1	33	S03	554.452	4500.526	68.58	241	2.38	14.93	441.49	162.086	37.0060
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES2	35	S05	554.452	4500.526	68.58	241	1.46	19.65	441.49	5.825	1.3299
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST1	32	S04	629.178	4532.009	307.22	255	4.45	23.38	449.27	397.830	90.8288
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST2	102	Z02	629.178	4532.009	0.61	255	1.07	3.14	295.38	70.582	16.1145
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF1	33	S02	591.802	4412.271	134.41	262	5.24	19.91	423.72	1631.670	372.5274
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF2	FDE	Z107	591.802	4412.271	0.61	262	0.55	5.49	295.38	100.448	22.9333
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF3	G05	Z103	591.802	4412.271	0.61	262	0.79	9.63	295.38	11.683	2.6673
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POWE	MTCHL1	34	S04	587.739	4452.830	114.29	228	6.10	19.20	423.72	804.500	183.6758
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POWE	MTCHL2	35	S05	587.739	4452.830	45.72	228	1.07	6.98	469.27	0.011	0.0025
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POWE	MTCHL3	102	Z02	587.739	4452.830	0.61	228	0.55	5.49	295.38	18.098	4.1319
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD1	B002	9002	530.617	4455.568	251.45	203	6.71	25.30	403.72	674.340	153.9589
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD2	B002	7	529.843	4455.565	251.45	203	6.71	2.54	447.05	0.000	0.0000
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPERATING	CARD5	B009	9	529.913	4452.890	274.31	203	7.31	3.09	430.38	0.000	0.0000
PA	Fayette	FAYETTE ENERGY FACILITY	FAYENG	2	41	593.016	4412.996	18.90	270	3.05	18.68	580.38	46.140	10.5342
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER1	32	S02	652.765	4486.326	243.83	366	7.31	26.03	427.60	1285.480	293.4886
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER2	33	S04	652.765	4486.326	260.29	366	8.23	19.14	441.49	946.020	215.9863
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER3	104	Z104	652.765	4486.326	0.61	366	1.07	11.52	295.38	74.774	17.0717
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART1	2	2	593.463	4393.919	167.63	245	7.16	23.47	415.94	74.572	17.0256
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART2	4	NONSTK	592.901	4394.989	3.05	245	0.00	0.00	295.38	246.770	56.3402
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART3	GSC54	41	592.875	4395.022	155.44	245	4.45	18.90	380.94	39.540	9.0274
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM1	1	13	516.256	4410.017	274.31	194	7.01	29.87	427.60	68.062	15.5392
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM2	4	NONSTK	515.493	4410.692	3.05	194	0.00	0.00	295.38	5.147	1.1750
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT1	1	12	516.259	4408.907	365.74	194	10.06	32.92	428.72	164.045	37.4531
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT2	4	NONSTK	515.993	4409.184	3.05	194	0.00	0.00	295.38	5.967	1.3623

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PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA1	33	T01	553.211	4532.067	122.52	243	4.86	19.34	441.49	1267.180	289.3105
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA2	36	S06	553.211	4532.067	9.45	243	0.53	11.63	612.05	0.036	0.0082
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA3	101	Z01	553.211	4532.067	0.61	243	1.07	3.14	295.38	6.679	1.5249
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA4	102	Z02	553.211	4532.067	0.61	243	0.52	12.19	295.38	2.839	0.6481
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA5	103	Z03	553.211	4532.067	0.61	243	0.64	6.68	295.38	0.718	0.1640
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA6	GCC42	41	553.177	4532.100	18.90	243	3.05	18.68	580.38	26.390	6.0251
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES1	1	1	602.379	4488.086	228.89	232	6.40	32.00	414.27	619.362	141.4068
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES2	3	2	602.455	4488.109	60.96	232	0.60	28.01	629.83	0.054	0.0123
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES3	6	9999	602.296	4487.985	16.46	232	0.46	9.54	295.38	0.712	0.1625
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES4	7	9999	602.296	4487.985	10.06	232	0.79	16.22	295.38	1.055	0.2409
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES5	7	9999	602.296	4487.985	15.24	232	1.07	3.14	295.38	2.951	0.6737
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES6	10	9999	602.296	4487.985	28.95	232	0.52	9.85	295.38	1.341	0.3063
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES7	12	9999	602.296	4487.985	17.07	232	0.70	16.49	295.38	0.751	0.1715
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM1	34	S01	592.001	4456.411	119.48	233	7.92	15.07	423.72	628.060	143.3927
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM2	102	Z102	592.001	4456.411	0.61	233	1.16	6.80	295.38	23.747	5.4216
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM1	32	S03	549.048	4498.335	289.55	241	5.85	22.90	453.16	2505.240	571.9726
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM2	33	S05	549.048	4498.335	182.87	241	5.85	22.90	453.16	557.740	127.3379
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM3	101	Z01	549.048	4498.335	0.61	241	1.07	3.14	295.38	13.181	3.0092
OH	Belmont	R. E. BURGER PLANT	BURG1	B009	9009	517.097	4416.678	259.07	194	6.55	28.95	446.49	642.150	146.6096
OH	Belmont	R. E. BURGER PLANT	BURG2	B011	9011	517.097	4416.678	259.07	194	6.55	28.95	380.94	1347.430	307.6324
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST1	32	S02	640.174	4502.359	243.83	310	8.20	29.72	429.83	1815.080	414.4018
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST2	37	S07	640.174	4502.359	83.82	310	2.13	15.86	616.49	0.743	0.1697
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST3	101	S03	640.174	4502.359	5.49	310	1.22	9.54	699.83	0.080	0.0183
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST4	106	F10	640.174	4502.359	0.61	310	1.07	3.14	295.38	70.194	16.0259
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST5	109	F10	640.174	4502.359	0.61	310	1.16	6.80	295.38	16.099	3.6755
OH	Jefferson	W. H. SAMMIS PLANT	SAMM1	B002	44	531.236	4486.761	304.79	209	8.14	17.07	380.94	0.030	0.0068
OH	Jefferson	W. H. SAMMIS PLANT	SAMM2	B008	9008	531.236	4486.761	153.61	209	6.25	16.46	380.94	711.480	162.4384
OH	Jefferson	W. H. SAMMIS PLANT	SAMM5	B013	9	531.202	4486.606	259.07	209	9.50	16.27	412.05	0.000	0.0000

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM1	WASTE OIL BURNERS- 4 SAME	578.598	4482.181	7.31	218	0.20	0.03	294.11	0.1306	No	0.572
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM2	BOILERS,WASHER,AIR HTR, ETC	578.598	4482.181	15.24	218	0.82	7.86	295.22	0.0069	No	0.030
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM3	BOILERS,WASHER,AIR HTR, ETC	578.598	4482.181	10.67	218	0.40	11.13	295.22	0.0027	No	0.012
PA	Allegheny	AKJ INDUSTRIES	AKJ1	SLUDGE PROCESSING	595.492	4462.463	6.40	230	0.10	1.37	333.00	0.0034	No	0.015
PA	Allegheny	AKJ INDUSTRIES	AKJ2	SLUDGE PROCESSING	595.989	4461.948	6.40	230	0.10	1.37	333.00	0.0034	No	0.015
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA1	INTEGRATED TABULAR	566.329	4491.287	12.19	214	1.52	7.31	294.11	0.1466	No	0.642
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA2	INTEGRATED TABULAR	566.329	4491.287	23.47	214	1.14	20.73	294.11	0.1735	No	0.760
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA3	BALL MILL, PACKAGING, OTHER	566.329	4491.287	23.47	214	0.71	20.12	294.11	0.0502	No	0.220
PA	Allegheny	ALLDERDICE SCHOOL	ALLDR1	BOILERS	591.705	4475.991	25.91	325	1.83	0.03	533.00	0.0164	No	0.072
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT1	ROTARY DRUM MIX/DRYER NG	586.772	4476.132	7.92	230	1.20	15.51	450.22	0.4808	No	2.106
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT2	LIMESTONE COARSE	586.896	4476.377	12.50	230	0.58	14.84	295.22	0.1483	No	0.650
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT3	COLD AGGREGATE HANDLING	586.896	4476.377	10.36	230	1.25	14.69	295.22	0.9269	No	4.060
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT4	HIGHLIFT	586.896	4476.377	3.96	230	0.03	5.58	295.22	0.0517	No	0.227
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT5	CARBONATE AGGREGATES	586.896	4476.377	9.75	230	1.19	14.20	295.22	1.5479	No	6.780
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT6	ASPHALT HEATER	586.896	4476.377	42.37	230	0.40	2.83	295.22	0.0004	No	0.002
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT7	ROADWAY FUGITIVE DUST	586.896	4476.377	11.58	230	0.61	13.17	295.22	0.0270	No	0.118
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP1	125 HOOKSTOWN GRADE ROAD	567.823	4481.509	5.49	341	0.15	0.30	338.56	0.0003	No	0.002
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP10	HIGH TEMP WATER GEN. 1 NG	563.088	4483.177	10.67	341	1.07	9.48	538.56	0.1065	No	0.466
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP11	FUGITIVES	563.069	4483.366	11.89	341	0.43	8.29	295.22	0.0015	No	0.007
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP2	TWA HANGARS	565.249	4483.173	7.62	341	0.61	0.30	338.56	0.0221	No	0.097
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP3	CARGO RD. FIRE PUMPHOUSE	564.720	4483.580	4.57	341	0.30	0.30	338.56	0.0016	No	0.007
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP4	MAINTENANCE BUILDING	565.652	4483.599	6.10	341	0.64	0.30	338.56	0.0042	No	0.018
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP5	TWA CARGO BUILDING	565.106	4482.972	6.10	341	0.15	0.30	338.56	0.0023	No	0.010
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP6	UREA/SAND DOME	564.900	4483.326	11.28	341	0.46	0.30	338.56	0.0121	No	0.053
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP7	STORE/WEST DOCK	565.898	4483.579	7.92	341	0.15	0.30	338.56	0.0037	No	0.016
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP8	COMMISSARY	565.720	4483.577	6.71	341	0.85	0.30	338.56	0.0011	No	0.005
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP9	WASTE DISPOSAL BUILDING	565.255	4483.407	4.88	341	0.09	0.79	338.56	0.0009	No	0.004
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS1	LIME MIXING	581.090	4480.675	23.77	222	1.83	14.72	294.11	0.1575	No	0.690
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS2	FLUIDIZED BED INCIN. #1	581.027	4480.985	91.44	222	2.41	1.49	316.33	0.2801	No	1.227
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS3	KEWANEE BOILER	581.095	4480.975	24.38	222	0.91	3.20	699.67	0.0170	No	0.075
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS4	PLANT ROADS AND VEHICLES	581.095	4480.975	6.10	222	0.70	1.68	295.22	0.0040	No	0.017
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS5	POT. PERMANGANATE SILO-2	581.095	4480.975	11.28	222	0.52	13.14	295.22	0.0028	No	0.012
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS6	ASH SILOS	581.095	4480.975	24.08	222	0.79	12.65	295.22	0.0021	No	0.009
PA	Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	AESPRG	UNITS 1-2	604.393	4488.880	22.86	227	2.74	20.24	708.56	0.4964	No	2.174
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD1	EIF SCRAP PREHEATERS	608.490	4497.177	28.04	236	1.07	11.89	366.33	1.4744	No	6.458
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD10	EAF MELTING	607.694	4496.077	25.60	236	5.18	1.90	366.33	2.6941	No	11.800
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD11	EAF CANOPY BAGHOUSE	608.449	4497.076	18.90	236	3.10	3.20	366.33	1.3313	No	5.831
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD12	EAF CANOPY BAGHOUSE	607.495	4496.974	24.99	236	2.44	11.73	295.22	3.8352	No	16.798
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD13	EAF MELTING	607.694	4496.077	22.86	236	4.27	2.77	366.33	0.6579	No	2.882
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD14	EAF MELTING	607.694	4496.077	22.86	236	4.27	1.83	366.33	0.6579	No	2.882
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD15	AOD	608.448	4497.176	22.86	236	3.10	3.41	366.33	8.5627	No	37.505
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD16	AOD	607.495	4496.974	29.26	236	2.01	11.03	295.22	0.9745	No	4.268
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD17	EAF SCRAP PREHEATERS	607.495	4496.974	19.81	236	1.13	8.20	295.22	0.3305	No	1.448
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD18	CONTINUOUS CASTER	607.495	4496.974	30.78	236	2.96	10.61	295.22	0.2813	No	1.232
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD19	LOFTUS SOAK PITS	607.292	4495.783	38.10	236	1.22	7.71	810.78	0.1015	No	0.445
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD2	ELECTRIC INDUCTION FCES	608.388	4497.175	20.12	236	0.79	17.37	324.67	1.1202	No	4.906
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD20	LOFTUS SOAK PITS	607.192	4495.681	38.10	236	1.83	3.41	810.78	0.2342	No	1.026
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD21	LOFTUS SOAK PITS	607.192	4495.681	38.10	236	1.83	2.56	810.78	0.0755	No	0.331
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD22	A/M SOAK PITS	607.393	4495.784	38.10	236	1.22	4.75	810.78	0.0312	No	0.137
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD23	A/M SOAK PITS	607.393	4495.784	38.10	236	1.83	2.10	810.78	0.0312	No	0.137
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD24	SALEM REHEAT FURNACE	607.393	4495.784	38.10	236	2.44	11.97	810.78	3.7682	No	16.505

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD25	RUST REHEAT FURNACE	607.292	4495.783	38.10	236	1.52	19.98	810.78	0.6856	No	3.003
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD26	HOT STRIP UNIVERSAL MILL	607.290	4495.883	21.33	236	2.44	3.03	338.56	1.0803	No	4.732
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD27	HOT STRIP MILL FUGITIVES	607.495	4496.974	26.21	236	1.77	8.02	295.22	0.1080	No	0.473
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD28	#1 A&P LINE, SHOTBLAST	607.594	4495.976	3.05	236	0.91	12.94	294.11	1.0842	No	4.749
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD29	#2 A&P LINE, KOLENE DESC.	606.595	4495.984	16.76	236	1.31	3.90	313.56	0.2047	No	0.897
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD3	ELECTRIC INDUCTION FCES	607.495	4496.974	11.89	236	1.13	13.26	295.22	4.6072	No	20.180
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD30	#2 A&P ANNEALING FCE. NG	607.495	4496.974	33.83	236	1.34	10.52	295.22	0.0874	No	0.383
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD31	#3 B&P LINE, SHOTBLAST	607.594	4495.976	2.13	236	0.49	27.81	294.11	3.8695	No	16.948
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD32	1-3 PICKLE,ACID SCRUBBING	607.495	4496.974	22.25	236	1.22	10.39	295.22	0.5675	No	2.486
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD33	HOT BAND NORMALIZER	607.289	4495.983	2.44	236	1.83	17.26	1394.11	0.1180	No	0.517
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD34	PLATE BURNERS/TORCH CUTRS	607.296	4496.083	12.19	236	1.22	25.39	294.11	0.2924	No	1.281
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD35	SLAB GRINDERS#15,16,18-22	607.495	4496.974	19.81	236	1.65	8.75	295.22	2.2467	No	9.841
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD36	#3 DEPT. BOILER	606.690	4495.874	6.10	236	2.13	1.48	449.67	0.1718	No	0.752
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD37	MISC. SPACE HEATERS	607.495	4496.974	15.24	236	0.82	7.86	295.22	0.3288	No	1.440
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD38	SLAG HANDLING	607.495	4496.974	36.27	236	2.38	6.00	295.22	0.0378	No	0.166
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD39	MOLD SHOP COOLING TOWERS	607.495	4496.974	9.14	236	4.33	9.05	295.22	1.3678	No	5.991
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD4	HOT METAL DESULFURIZATION	608.388	4497.175	24.99	236	0.61	27.43	380.22	0.6759	No	2.960
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD40	TANDEM MILL	607.595	4495.876	12.19	236	1.22	6.07	294.11	6.8844	No	30.154
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD41	UNITED MILL	607.595	4495.876	12.19	236	1.22	6.07	294.11	2.6062	No	11.415
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD42	Z MILL	606.595	4495.984	10.67	236	0.91	7.19	294.11	1.0435	No	4.570
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD43	STORAGE SILOS	607.495	4496.974	20.73	236	0.79	13.29	295.22	0.2258	No	0.989
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD5	HOT METAL DESULFURIZATION	607.495	4496.974	25.30	236	1.58	17.65	295.22	0.2179	No	0.954
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD6	BASIC OXYGEN FCES	608.490	4497.177	45.41	236	3.05	11.32	333.00	1.8030	No	7.897
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD7	BASIC OXYGEN FCES	607.495	4496.974	97.53	236	2.38	11.16	295.22	1.6210	No	7.100
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD8	BASIC OXYGEN FCES	607.495	4496.974	49.68	236	2.71	8.81	295.22	0.0197	No	0.086
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD9	BASIC OXYGEN FCES	607.495	4496.974	43.89	236	2.35	11.40	295.22	0.0525	No	0.230
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL1	BOILER #1	606.746	4497.218	9.14	293	0.70	4.60	483.00	0.0323	No	0.141
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL2	PAVED ROADS	606.842	4497.064	11.58	293	0.70	14.36	295.22	0.0027	No	0.012
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR1	HVAC UNITS	570.101	4486.315	15.24	225	0.82	7.86	462.44	0.0063	No	0.028
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR2	VEHICLE TRAFFIC	570.101	4486.315	12.19	225	1.62	6.49	295.22	0.0119	No	0.052
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR3	VEHICLE TRAFFIC	570.101	4486.315	8.84	225	0.40	23.84	295.22	0.0793	No	0.347
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR4	VEHICLE TRAFFIC	570.101	4486.315	7.62	225	0.30	0.03	310.78	0.0035	No	0.015
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR5	ABRASIVE BLASTING #2	570.101	4486.315	0.00	225	0.09	0.00	303.00	0.0102	No	0.045
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR6	WELDING AND CUTTING	570.101	4486.315	0.00	225	0.09	0.00	295.22	0.0001	No	0.001
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR7	WELDING AND CUTTING	570.101	4486.315	3.05	225	0.20	4.00	295.22	0.0061	No	0.027
PA	Allegheny	AMG RESOURCES CORPORATION	AMG1	UNPAVED ROADS	574.792	4484.784	20.42	221	0.64	6.68	295.22	0.0009	No	0.004
PA	Allegheny	AMG RESOURCES CORPORATION	AMG2	UNPAVED ROADS	574.792	4484.784	3.96	221	0.03	5.58	295.22	0.0150	No	0.066
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW1	AGGREGATE GROUND HOPPER	585.195	4476.080	9.45	224	0.85	7.04	295.22	0.0509	No	0.223
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW2	AGGREGATE #57 GRAVEL	585.195	4476.080	9.14	224	0.91	7.77	295.22	0.1969	No	0.863
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW3	CEMENT SILO 1	585.195	4476.080	24.38	224	0.15	16.82	321.89	0.0142	No	0.062
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW4	CEMENT SILO 2	585.195	4476.080	17.37	224	0.41	0.03	533.00	0.0460	No	0.201
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW5	CEMENT SILO 3	585.195	4476.080	7.31	224	0.30	15.24	294.11	0.0069	No	0.030
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW6	BOILER	585.195	4476.080	3.96	224	0.03	5.58	295.22	0.0284	No	0.125
PA	Allegheny	ARSENAL SCHOOL	ARSENL	BOILER	587.893	4480.375	36.57	234	1.83	0.03	533.00	0.0094	No	0.041
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN1	POLYESTER RESIN(PR) PLANT	577.693	4483.681	33.53	222	1.07	1.92	1060.78	0.0475	No	0.208
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN2	MAIN BOILER #25	577.995	4483.184	11.89	222	0.60	8.81	541.33	0.4137	No	1.812
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN3	BACKUP BOILER #26	577.693	4483.681	8.53	222	0.61	5.43	533.00	0.0303	No	0.133
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN4	HOT OIL HEATER #15	577.693	4483.681	13.72	222	3.93	10.39	295.22	0.2613	No	1.144
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN5	COOLING TOWER #39	577.693	4483.681	14.02	222	0.40	16.82	295.22	0.0113	No	0.049
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN6	ONSITE VEHICLES	577.693	4483.681	8.84	222	0.46	19.23	295.22	0.0125	No	0.055
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN7	ONSITE VEHICLES	577.693	4483.681	6.10	222	0.27	8.23	295.22	0.0006	No	0.003

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PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN8	ONSITE VEHICLES	577.693	4483.681	0.00	222	0.00	0.00	295.22	0.0008	No	0.004
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN9	ROAD DUST	577.693	4483.681	11.89	222	0.88	4.72	295.22	0.0229	No	0.100
PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL1	BOILERS #1-2	591.945	4479.024	42.97	284	2.10	0.21	505.22	0.0497	No	0.218
PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL2	BAKING OVENS #2-6	591.980	4478.936	18.90	284	0.80	0.91	533.00	0.0220	No	0.096
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER1	BOILER #1,NG	589.994	4500.883	15.24	232	0.82	9.54	533.00	0.0036	No	0.016
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER2	SPACE HEATERS,NG	589.994	4500.883	10.67	232	0.43	6.55	295.22	0.0018	No	0.008
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER3	ROADS AND VEHICLES	589.994	4500.883	38.71	232	1.43	7.19	295.22	0.0092	No	0.040
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER4	ROADS AND VEHICLES	589.994	4500.883	8.84	232	0.46	19.23	295.22	0.0077	No	0.034
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER5	OPEN HEAD -BAKE OVEN	589.994	4500.883	13.72	232	0.67	10.09	294.11	0.0021	No	0.009
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER6	SHOT BLAST,OPEN HEAD	589.994	4500.883	6.71	232	0.43	9.91	294.11	0.0295	No	0.129
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER7	DRUM BURNER,OPEN HEAD	589.994	4500.883	10.36	232	3.54	2.99	416.33	0.4941	No	2.164
PA	Allegheny	BARBER SPRING	BARBR1	OUTER LINE	588.518	4481.958	16.76	230	1.22	0.03	294.11	0.1070	No	0.469
PA	Allegheny	BARBER SPRING	BARBR2	QUENCHING	588.518	4481.958	13.41	230	1.07	12.22	295.22	0.0457	No	0.200
PA	Allegheny	BARBER SPRING	BARBR3	VEHICLES	588.518	4481.958	10.67	230	0.40	11.13	295.22	0.0079	No	0.035
PA	Allegheny	BARBER SPRING	BARBR4	VEHICLES	588.518	4481.958	8.84	230	0.46	19.23	295.22	0.0111	No	0.049
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE1	BOILERS 1-2	589.114	4478.935	59.13	248	2.70	7.71	565.22	0.4644	No	2.034
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE2	BOILERS 3-7	589.125	4477.325	78.02	248	3.40	5.91	426.89	3.8415	No	16.826
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE3	COAL HNDLG INDOOR BUNKERS	589.116	4477.314	16.46	248	0.46	9.54	295.22	0.0284	No	0.124
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE4	ASH SILO, 150 TON CAPAC.	589.116	4477.314	9.14	248	0.58	12.71	295.22	0.0021	No	0.009
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE5	EMERG #2 FUEL OIL GEN B	589.116	4477.314	9.75	248	0.49	10.70	295.22	0.0021	No	0.009
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF1	RECEIVING	569.684	4471.868	17.98	277	0.70	13.41	295.22	0.0008	No	0.003
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF2	PROCESSING	569.693	4471.879	6.10	277	2.13	0.09	296.89	0.0049	No	0.022
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF3	PROCESSING	569.693	4471.879	31.09	277	0.91	0.14	310.78	0.1411	No	0.618
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF4	PROCESSING	569.693	4471.879	32.61	277	0.30	5.29	296.89	0.0079	No	0.035
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF5	PROCESS STEAM	569.693	4471.879	12.19	277	0.08	5.18	633.00	0.0125	No	0.055
PA	Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	BESTF6	PROCESS STEAM	569.693	4471.879	7.62	277	0.41	11.00	633.00	0.0125	No	0.055
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS1	BOILER #1	593.493	4468.349	8.84	366	0.51	10.24	401.89	0.0074	No	0.032
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS2	BOILER #2	593.520	4468.331	9.14	366	0.70	6.49	433.00	0.0080	No	0.035
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS3	BOILER #3-4	593.493	4468.349	8.84	366	0.61	6.55	443.00	0.0171	No	0.075
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSD	DIESEL GENERATOR TESTING	593.493	4468.349	3.66	345	0.35	35.05	710.78	0.0018	No	0.008
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSR	ROADS & VEHICLES	593.493	4468.349	15.85	345	0.67	7.10	295.22	0.0467	No	0.205
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSV	VAPOR HOT WATER HEATER-NG	593.520	4468.331	21.03	345	1.40	19.90	644.11	0.0087	No	0.038
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI1	ENCLOSED GROUND FLARE	561.496	4477.780	18.29	335	3.66	0.67	1144.11	1.8755	No	8.215
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI2	PORTABLE SCREENING PLANT	561.497	4477.680	11.89	335	0.70	15.12	295.22	0.0215	No	0.094
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI3	OPERATION / CONSTRUCTION	561.497	4477.680	4.27	335	0.06	11.64	295.22	1.6644	No	7.290
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI4	UNPAVED ROAD DUST EMISSIN	561.497	4477.680	65.53	335	0.94	2.80	295.22	0.2605	No	1.141
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI5	DEDICATED DIESEL EMISSION	561.497	4477.680	8.84	335	0.40	23.84	295.22	0.8534	No	3.738
PA	Allegheny	BOX USA	BOX1	SCRAP, CORRUGATOR	592.290	4483.381	15.24	228	4.57	0.03	294.11	1.1866	No	5.197
PA	Allegheny	BOX USA	BOX2	BOILERS	592.290	4483.381	45.11	228	2.44	0.49	435.78	0.0285	No	0.125
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP1	GARAGE BOILER-NATURAL GAS	569.591	4486.476	10.67	226	0.43	6.55	295.22	0.0012	No	0.005
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP2	PLANT ROADS	569.591	4486.476	36.88	226	1.19	5.58	295.22	0.0004	No	0.002
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP3	PLANT ROADS	569.591	4486.476	12.19	226	1.62	6.49	295.22	0.0002	No	0.001
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR1	BRIQUETTING SYSTEM BOP	597.433	4471.800	14.63	230	0.76	15.00	295.22	0.0724	No	0.317
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR2	BRIQUETTING BLAST FURNACE	597.433	4471.800	11.89	230	0.90	16.79	366.89	0.0539	No	0.236
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR3	BRIQUETTING BLAST FURNACE	597.433	4471.800	24.08	230	2.04	21.61	295.22	0.0033	No	0.014
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR4	BRIQUETTING BLAST FURNACE	597.433	4471.800	18.59	230	0.67	15.67	295.22	0.1994	No	0.873
PA	Allegheny	CALGON CARBON CORPORATION	CALG1	CARBON REACTIVATION	578.124	4482.975	24.08	220	1.10	18.29	491.33	0.0525	No	0.230
PA	Allegheny	CALGON CARBON CORPORATION	CALG10	SCREENING	577.997	4482.985	14.02	220	0.76	20.73	293.00	0.1416	No	0.620
PA	Allegheny	CALGON CARBON CORPORATION	CALG2	CARBON REACTIVATION	577.997	4482.985	18.90	220	0.76	1.62	421.89	0.0183	No	0.080
PA	Allegheny	CALGON CARBON CORPORATION	CALG3	WHETLERITE - PLANT #1	577.997	4482.985	12.19	220	0.61	4.82	327.44	0.1986	No	0.870
PA	Allegheny	CALGON CARBON CORPORATION	CALG4	WHETLERITE - PLANT #1	577.997	4482.985	15.24	220	0.61	2.13	394.11	0.0098	No	0.043

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PA	Allegheny	CALGON CARBON CORPORATION	CALG5	IMPREGNATED PRODUCTS	577.997	4482.985	12.19	220	0.41	3.66	394.11	0.0071	No	0.031
PA	Allegheny	CALGON CARBON CORPORATION	CALG6	IMPREGNATED PRODUCTS	578.115	4482.986	34.14	220	0.60	22.31	426.33	0.0137	No	0.060
PA	Allegheny	CALGON CARBON CORPORATION	CALG7	PELLETS	578.141	4482.975	18.90	220	0.80	11.31	1326.89	0.2260	No	0.990
PA	Allegheny	CALGON CARBON CORPORATION	CALG8	RAYMOND MILL PULVERIZER	577.997	4482.985	13.41	220	0.30	19.51	294.11	0.0434	No	0.190
PA	Allegheny	CALGON CARBON CORPORATION	CALG9	COOPERITE	577.997	4482.985	21.94	220	0.76	13.72	345.78	0.0183	No	0.080
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL1	STOCKPILES ROCK SALT	579.492	4481.879	8.84	221	1.04	16.31	295.22	0.2553	No	1.118
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL2	ROCK SALT PROCESSING LINE	579.492	4481.879	12.19	221	0.30	9.05	293.00	0.0051	No	0.022
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL3	ROCK SALT PROCESSING LINE	579.492	4481.879	3.96	221	0.03	5.58	295.22	0.0142	No	0.062
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL4	OFF-LOADING ROCK SALT	579.492	4481.879	12.50	220	0.58	14.84	295.22	0.0272	No	0.119
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL5	OFF-LOADING ROCK SALT	579.492	4481.879	8.53	221	1.01	15.97	295.22	0.0018	No	0.008
PA	Allegheny	CARRICK SCHOOL	CARRK	GAS FIRED HW BOILERS	585.795	4471.780	14.02	371	1.37	0.03	533.00	0.0108	No	0.047
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC1	KEELER BOILERS	586.985	4462.091	46.02	333	2.10	5.09	449.67	0.0388	No	0.170
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC2	ROAD SALT STOCKPILES	586.891	4462.179	18.59	333	1.43	10.15	295.22	0.0183	No	0.080
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC3	PARTS WASHER & OTHER FUG.	586.891	4462.179	8.84	333	0.40	23.84	295.22	0.0309	No	0.135
PA	Allegheny	CENTRAL FOOD KITCHEN	CENTF	GAS FIRED BOILERS	586.092	4476.279	14.63	222	0.84	0.03	533.00	0.0223	No	0.098
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB1	MCGILL ENCLOSED LFG FLARE	602.297	4473.674	9.14	305	3.38	7.38	1171.89	0.3493	No	1.530
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB2	COVER-EXCAV.&REPLACEMENT	602.297	4473.674	21.94	305	1.62	15.39	295.22	0.8288	No	3.630
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB3	COVER-EXCAV.&REPLACEMENT	602.297	4473.674	19.20	305	1.62	15.39	295.22	0.1210	No	0.530
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB4	ROADS	602.297	4473.674	1.83	305	0.09	0.67	295.22	2.2922	No	10.040
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB5	VEHICLES	602.297	4473.674	8.84	305	0.40	23.84	295.22	0.6233	No	2.730
PA	Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	CHILDR	BOILERS	587.596	4478.184	19.81	295	1.22	6.80	429.67	0.0983	No	0.430
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG1	ASPHALT PLANT	593.696	4458.275	4.88	230	1.50	5.61	394.11	0.0002	No	0.001
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG2	ASPHALT PLANT	593.696	4458.275	10.36	230	1.25	14.69	295.22	0.2413	No	1.057
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG3	ASPHALT PLANT	593.696	4458.275	10.06	230	0.98	13.96	295.22	0.0027	No	0.012
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG4	BARGE UNLOADING OPERATION	593.696	4458.275	12.50	230	0.58	14.84	295.22	1.3410	No	5.874
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG5	BARGE UNLOADING OPERATION	593.696	4458.275	11.58	230	0.61	13.17	295.22	0.0516	No	0.226
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG6	STG.PILE#4 HWY SALT #1	593.696	4458.275	12.50	230	0.61	16.06	295.22	0.0252	No	0.110
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG7	PAVED ROADS	593.696	4458.275	36.88	230	1.19	5.58	295.22	0.0006	No	0.003
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG8	DEDICATED VEHICLE EMISSIN	593.696	4458.275	8.84	230	0.40	23.84	295.22	0.2600	No	1.139
PA	Allegheny	CONNELLEY SCHOOL	CONNLY	GAS FIRED BOILERS # 1-3	584.095	4478.777	28.35	286	2.80	0.03	533.00	0.0216	No	0.095
PA	Allegheny	CP INDUSTRIES	CP1	#3 AUTOMATIC GRINDER	597.542	4465.576	7.62	226	0.58	4.48	283.00	0.1153	Yes	0.505
PA	Allegheny	CP INDUSTRIES	CP2	O.D. SHOT BLAST	597.542	4465.576	7.62	226	0.58	4.48	294.11	0.1185	Yes	0.519
PA	Allegheny	CP INDUSTRIES	CP3	"A" FURNACE	597.542	4465.576	19.81	226	1.13	3.14	810.78	0.0072	Yes	0.032
PA	Allegheny	CP INDUSTRIES	CP4	"B" FURNACE	597.542	4465.576	19.81	226	1.13	4.45	1144.11	0.0108	Yes	0.048
PA	Allegheny	CP INDUSTRIES	CP5	HOLCROFT FURNACE	597.542	4465.576	15.24	226	0.82	4.42	1144.11	0.0076	Yes	0.033
PA	Allegheny	CREIGHTON STATION	CREIGH	ENGINE #1-2	603.436	4493.164	6.10	226	0.46	0.03	588.56	0.0516	No	0.226
PA	Allegheny	DICE COMPRESSOR STATION	DICE1	NG COMPRESSOR #1-400 HP	609.895	4479.877	4.57	295	0.30	19.41	488.56	0.0268	No	0.117
PA	Allegheny	DICE COMPRESSOR STATION	DICE2	NG COMPRESSOR #2 - 600 HP	609.895	4479.877	4.57	295	0.30	29.11	488.56	0.0985	No	0.432
PA	Allegheny	DICE COMPRESSOR STATION	DICE3	NG HEATING BOILER	609.895	4479.877	5.49	295	0.30	0.03	533.00	0.0018	No	0.008
PA	Allegheny	DICE COMPRESSOR STATION	DICE4	INDIRECT PIPELINE HEATER	609.895	4479.877	5.49	295	0.51	0.03	533.00	0.0005	No	0.002
PA	Allegheny	DLM FOODS	DLM1	BOILER #1-2, COAL	585.681	4478.795	75.89	229	3.10	6.40	471.89	3.2968	No	14.440
PA	Allegheny	DLM FOODS	DLM2	BOILER #3, COAL	585.698	4478.817	75.89	229	3.10	3.41	394.11	0.8415	No	3.686
PA	Allegheny	DLM FOODS	DLM3	BULK STARCH SILO	585.997	4478.576	22.25	229	2.26	10.39	295.22	0.8699	No	3.810
PA	Allegheny	DLM FOODS	DLM4	COAL UNLOADING	585.997	4478.576	20.42	229	1.52	14.17	295.22	0.0109	No	0.048
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ1	EMERG. GENERATORS NAT.GAS	585.391	4476.682	8.84	253	0.46	19.23	295.22	0.0415	No	0.182
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ2	EMERG. GENERATORS NAT.GAS	585.391	4476.682	7.92	253	0.34	23.35	295.22	0.0024	No	0.011
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ3	JOHNSTON BOILER	585.391	4476.682	24.99	253	1.83	0.96	455.22	0.0390	No	0.171
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ4	MISC. BOILERS	585.391	4476.682	19.81	253	1.13	8.20	295.22	0.0069	No	0.030
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ5	GAS TURBINE GENERATOR	585.400	4476.649	46.33	253	1.07	2.82	449.67	0.3201	No	1.402
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA1	P03 EXTRUD'D POLY (XTEC)	597.994	4464.580	6.40	227	0.38	21.49	293.00	0.0603	Yes	0.264
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA2	P03 EXTRUD'D POLY (XTEC)	598.002	4464.558	2.13	227	0.15	0.05	449.67	0.0004	Yes	0.002

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PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA3	TRAVEL EMISSIONS	597.994	4464.580	10.97	227	0.76	5.85	295.22	1.1550	No	5.059
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA4	TRAVEL EMISSIONS	597.994	4464.580	3.96	227	0.03	5.58	295.22	0.0983	No	0.430
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA5	FUSION BOND PROCESS OVEN	597.994	4464.580	9.75	227	0.52	2.68	921.89	0.0081	Yes	0.035
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA6	FUSION BOND WB-1 BH STACK	597.994	4464.580	7.31	227	0.58	12.59	295.22	0.0660	Yes	0.289
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA7	FUSION BOND WB-2 BH STACK	598.002	4464.591	4.88	227	0.38	21.49	294.11	0.0727	Yes	0.318
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA8	FUSION BOND DRYER OVEN	597.994	4464.580	9.75	227	0.52	4.27	921.89	0.0053	Yes	0.023
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST1	V-8 AREA	593.093	4457.579	4.88	225	0.41	28.80	293.00	0.6081	No	2.663
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST10	BOILERS 3-4	593.093	4457.579	14.02	225	0.69	23.50	625.78	0.2263	No	0.991
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST11	NO. 5 TRANE BOILER, WDLF	593.101	4457.590	21.94	225	0.90	9.51	503.00	0.3072	No	1.345
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST12	MP-POLY	593.093	4457.579	9.14	225	0.15	1.55	298.00	0.0091	No	0.040
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST13	MP-POLY	593.093	4457.579	9.14	225	0.15	8.41	298.00	0.0003	No	0.001
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST14	MP-POLY	593.093	4457.579	12.19	225	0.15	1.31	298.00	0.2374	No	1.040
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST15	MP-POLY	593.093	4457.579	28.04	225	0.04	8.26	316.33	0.0395	No	0.173
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST16	C-5 HOT OIL HEATER, NG	593.093	4457.579	6.10	225	0.33	7.45	616.33	0.0509	No	0.223
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST17	C-5 PROCESS UNIT	593.093	4457.579	12.19	225	0.10	18.35	293.00	0.0014	No	0.006
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST18	C-5 PROCESS UNIT	593.093	4457.579	12.19	225	0.05	82.54	293.00	0.0802	No	0.351
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST19	C-5 PROCESS UNIT	593.093	4457.579	1.52	225	0.08	0.52	293.00	0.0541	No	0.237
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST2	V-8 AREA	593.093	4457.579	4.88	225	0.41	28.80	633.56	0.6081	No	2.663
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST20	C-5 PROCESS UNIT	593.093	4457.579	9.14	225	0.08	0.30	316.33	0.0058	No	0.026
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST21	C-5 FINISHED RESIN AREA	593.093	4457.579	9.14	225	0.08	0.94	285.78	0.0032	No	0.014
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST22	C-5 FINISHED RESIN AREA	593.093	4457.579	9.14	225	0.51	18.65	293.00	0.3777	No	1.655
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST23	#1 & #2 LTC UNIT	593.093	4457.579	6.10	225	0.30	16.76	810.78	0.0313	No	0.137
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST24	#1 & #2 LTC UNIT	593.093	4457.579	6.10	225	0.30	23.77	616.33	0.0151	No	0.066
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST25	#1 & #2 LTC UNIT	593.093	4457.579	9.75	225	0.49	8.63	293.00	0.4807	No	2.106
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST26	#3 LTC UNIT	593.093	4457.579	6.10	225	0.30	29.56	810.78	0.0027	No	0.012
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST27	PAVED AND UNPAVED ROADS	593.093	4457.579	14.02	225	0.40	16.82	295.22	0.0146	No	0.064
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST28	PAVED AND UNPAVED ROADS	593.093	4457.579	12.19	225	0.15	3.47	295.22	0.0738	No	0.323
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST29	VEHICLE EXHAUST	593.093	4457.579	8.84	225	0.49	8.29	295.22	0.0002	No	0.001
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST3	V-8 AREA	593.093	4457.579	10.06	225	0.69	2.13	616.33	0.0065	No	0.029
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST30	THERMAL POLY HEATER NG	593.093	4457.579	7.62	225	0.46	33.22	616.33	0.0274	No	0.120
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST4	WATER-WHITE POLY AREA	593.093	4457.579	0.61	225	0.10	0.27	298.00	0.0136	No	0.060
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST5	WATER-WHITE POLY AREA	593.093	4457.579	8.53	225	0.08	6.22	283.00	0.0026	No	0.012
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST6	WATER-WHITE POLY AREA	593.093	4457.579	0.61	225	0.05	5.06	310.78	0.0362	No	0.158
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST7	WATER-WHITE POLY AREA	593.093	4457.579	6.71	225	0.05	1.77	298.00	0.0629	No	0.276
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST8	WATER-WHITE POLY AREA	593.093	4457.579	8.53	225	0.15	1.55	298.00	0.0136	No	0.060
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST9	BOILERS 1-2	593.093	4457.579	14.32	225	0.69	8.84	616.33	0.0050	No	0.022
PA	Allegheny	ELG METALS	ELG	METALS PROCESSING	596.803	4465.697	3.96	229	1.02	10.06	299.70	0.1712	No	0.750
PA	Allegheny	EPIC METALS CORPORATION	EPIC	PAINTING OPERATION	595.392	4473.383	7.62	235	0.53	19.29	596.89	0.0092	No	0.040
PA	Allegheny	EXXONMOBIL NEVILLE ISLAND MARKETING TER	EXXNEV	VEHICLE EMISSIONS	573.894	4483.876	3.96	222	0.03	5.58	295.22	0.0069	No	0.030
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH1	BOILERS	595.692	4485.777	6.10	298	2.13	0.03	533.00	0.0226	No	0.099
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH2	ROADS	595.692	4485.777	36.88	298	1.19	5.58	295.22	0.0004	No	0.002
PA	Allegheny	GALVTECH	GALVT1	NATURAL GAS COMBUSTION	590.590	4471.881	22.86	228	1.52	4.48	533.00	0.5771	No	2.528
PA	Allegheny	GALVTECH	GALVT2	NATURAL GAS COMBUSTION	590.591	4471.781	18.29	228	0.08	30.02	366.33	0.0174	No	0.076
PA	Allegheny	GALVTECH	GALVT3	MISCELLANEOUS	590.590	4471.881	12.50	228	0.58	7.38	373.56	0.0137	No	0.060
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT1	BULK MATERIAL UNLOADING	576.192	4468.779	20.73	244	1.10	15.88	432.44	0.3379	No	1.480
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT10	CULLET STORAGE PILE	576.192	4468.779	10.06	244	0.85	1.10	309.67	0.0026	No	0.012
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT11	CULLET STORAGE PILE	576.693	4468.784	10.06	244	0.85	1.10	295.22	0.0004	No	0.002
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT2	SIMPLEX GLASS PRODUCTION	576.693	4468.784	27.13	244	1.07	12.53	295.22	0.2397	No	1.050
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT3	GAS ELECTRIC GLASS PROD.	576.192	4468.779	27.13	244	1.07	12.53	494.11	0.0692	No	0.303
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT4	TUBE DRAWING PROCESS GRP	576.693	4468.784	16.15	244	0.91	10.30	295.22	0.0237	No	0.104
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT5	BOILER NO. 2	576.693	4468.784	17.07	244	0.20	9.11	810.78	0.0033	No	0.015

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT6	BOILER NO. 3	576.693	4468.784	12.80	244	0.34	0.03	310.78	0.0022	No	0.010
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT7	HOT WATER HEATERS	576.192	4468.779	11.28	244	0.46	14.26	473.00	0.0031	No	0.014
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT8	SPACE HEATERS	576.693	4468.784	10.67	244	0.43	6.55	383.00	0.0005	No	0.002
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT9	SPACE HEATERS	576.693	4468.784	10.06	244	0.46	9.24	390.78	0.0008	No	0.004
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP1	YOUNG BROS BAKE-OUT OVEN	590.278	4468.024	7.62	357	0.30	23.58	533.00	0.0009	No	0.004
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP2	DESPATCH BAKE OVEN	590.278	4468.024	2.44	357	0.23	23.71	533.00	0.0002	No	0.001
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP3	WELDING	590.278	4468.024	11.89	357	0.88	0.52	299.67	0.0406	No	0.178
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP4	BABBITT	590.278	4468.024	11.28	357	0.52	9.45	310.78	0.0046	No	0.020
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP5	SPACE HEATERS	590.278	4468.024	10.67	357	0.43	6.55	383.00	0.0048	No	0.021
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP6	ABRASIVE BLAST	590.278	4468.024	7.92	357	0.61	15.24	299.67	0.0197	No	0.086
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP7	FUGITIVES CLEANING/NDT	590.278	4468.024	13.72	357	0.49	5.03	295.22	0.0014	No	0.006
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM1	BOILER #1	593.050	4466.504	14.02	274	0.70	16.79	498.00	0.0355	No	0.156
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM2	OIL FIRED SPACE HEATERS	593.195	4466.484	6.10	274	0.24	0.03	394.11	0.0805	No	0.353
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM3	DIE BUILDING HEATERS - 5	593.195	4466.484	12.19	274	0.30	0.03	366.33	0.0055	No	0.024
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM4	PACKAGE BOILER HOT WATER	593.195	4466.484	1.52	274	0.30	0.03	477.44	0.0018	No	0.008
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM5	HIGH TANK BOILER	593.195	4466.484	6.10	274	0.24	0.03	477.44	0.0002	No	0.001
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM6	RACK REPAIR HEATERS - 4	593.195	4466.484	4.57	274	0.24	4.57	366.33	0.0004	No	0.002
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM7	WELLNESS CENTER HVAC UNIT	593.195	4466.484	15.85	274	0.67	7.10	366.33	0.0021	No	0.009
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM8	VEHICLES AND ROADS	593.291	4465.575	17.07	274	0.82	8.02	295.22	0.0525	No	0.230
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM9	VEHICLES AND ROADS	593.291	4465.575	8.84	274	0.46	19.23	295.22	0.0516	No	0.226
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM10	VEHICLES AND ROADS	593.291	4465.575	6.10	274	0.27	8.23	295.22	0.0020	No	0.009
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN1	UNIT HEATERS (42)	588.792	4486.080	15.85	229	0.67	7.10	295.22	0.0698	No	0.306
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN2	CULLET STORAGE PILE	588.792	4486.080	20.73	229	1.10	15.88	295.22	0.0320	No	0.140
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN3	ROADS AND VEHICLES	588.792	4486.080	36.88	229	1.19	5.58	295.22	0.0100	No	0.044
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN4	ROADS AND VEHICLES	588.792	4486.080	8.84	229	0.46	19.23	295.22	0.0009	No	0.004
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN5	MELTING FURNACE #1-2	588.792	4486.080	41.15	229	1.50	10.30	859.11	6.9305	No	30.356
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN6	MELTING FURNACE #4	588.800	4486.058	19.51	229	1.42	8.11	492.44	2.1715	No	9.511
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN7	HOT END SURFACE TREATS	588.893	4486.082	16.15	229	0.70	12.77	374.67	1.5512	No	6.794
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN8	ANNEALING LEHRS	588.893	4486.082	42.37	229	0.40	2.83	364.67	0.0412	No	0.181
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN9	MATERIALS HANDLING	588.792	4486.080	12.19	229	0.59	24.54	293.00	2.0094	No	8.801
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD1	RAW MATERIAL RECEIVING	592.194	4456.680	20.73	225	1.10	15.88	295.22	0.4032	No	1.766
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD2	GLASS MELTING AND FORMING	592.194	4456.680	24.99	225	2.70	25.51	535.22	1.8637	No	8.163
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD3	GLASS MELTING AND FORMING	592.194	4456.680	30.48	225	1.98	22.10	554.67	2.5149	No	11.015
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD4	CULLET PROCESSING	592.194	4456.680	17.07	225	1.04	15.91	295.22	0.1787	No	0.783
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD5	SPACE/WATER HEATERS, NG	592.194	4456.680	15.24	225	0.82	7.86	295.22	0.0134	No	0.059
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD6	FORK TRUCK, PROPANE	592.194	4456.680	8.84	225	0.49	8.29	295.22	0.0006	No	0.003
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD7	SITE DEDICATED VEHICLES	592.194	4456.680	10.36	225	0.58	33.62	295.22	0.0338	No	0.148
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV1	SMALL COMBUSTION, VEHICLES	588.250	4477.426	18.90	280	0.85	7.32	295.22	0.0026	No	0.011
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV2	VEHICLE EMISSIONS	588.250	4477.426	8.84	280	0.49	8.29	295.22	0.0004	No	0.002
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV3	VEHICLE EMISSIONS	588.250	4477.426	8.23	280	2.62	2.80	295.22	0.0143	No	0.063
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL1	MAIN SCREENING PLANT	588.250	4477.426	8.84	280	1.04	16.79	295.22	0.0320	No	0.140
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL2	MAIN SCREENING PLANT	588.250	4477.426	8.23	280	1.01	16.15	295.22	0.0256	No	0.112
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL3	1B-FINES SCREENING PLANT	588.250	4477.426	8.84	280	1.07	16.86	295.22	0.0032	No	0.014
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL4	VEHICLE EMISSIONS	588.250	4477.426	8.84	280	0.46	19.23	295.22	0.2825	No	1.238
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL5	ROADWAY EMISSIONS	588.250	4477.426	8.53	280	1.01	15.97	295.22	0.0162	No	0.071
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL6	MAINT GARAGE HEATING SYS	588.250	4477.426	11.28	280	0.46	14.26	295.22	0.0001	No	0.001
PA	Allegheny	HOECHSTETTER PRINTING	HOECHS	HEATSET WEB PRINTING	593.823	4478.026	15.54	282	0.24	12.66	435.78	0.0047	No	0.021
PA	Allegheny	HUSSEY COPPER LTD.	HUSS1	F-1 REVERBERATORY FURNACE	565.792	4491.682	13.72	216	2.13	15.30	408.56	3.2347	No	14.168
PA	Allegheny	HUSSEY COPPER LTD.	HUSS10	LC-1 LEAD COATING/DROSSNG	565.792	4491.682	40.23	216	2.53	10.73	295.22	0.0013	No	0.006
PA	Allegheny	HUSSEY COPPER LTD.	HUSS11	COPPER SCRAP HAND/BAILING	565.792	4491.682	14.32	216	1.10	12.89	295.22	0.2558	No	1.120
PA	Allegheny	HUSSEY COPPER LTD.	HUSS12	WEST BOILER	565.902	4491.738	12.50	216	0.61	0.52	394.11	0.0106	No	0.046

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PA	Allegheny	HUSSEY COPPER LTD.	HUSS13	MISC, NG USAGE	565.792	4491.682	15.24	216	0.82	7.86	295.22	0.0307	No	0.134
PA	Allegheny	HUSSEY COPPER LTD.	HUSS14	BAGHOUSE DUST CAPTURED	565.792	4491.682	11.58	216	0.76	14.08	295.22	0.1028	No	0.450
PA	Allegheny	HUSSEY COPPER LTD.	HUSS15	UNPAVED PLANT ROADWAYS	565.792	4491.682	65.53	216	0.94	2.80	295.22	0.0076	No	0.033
PA	Allegheny	HUSSEY COPPER LTD.	HUSS2	F-7A/B INDUCTION FURNACE	565.792	4491.682	11.58	216	0.91	8.63	316.33	0.0360	No	0.158
PA	Allegheny	HUSSEY COPPER LTD.	HUSS3	SC-1 SCALPER	565.894	4491.682	19.20	216	0.61	19.41	294.11	0.0114	No	0.050
PA	Allegheny	HUSSEY COPPER LTD.	HUSS4	AF-21 CONTINOUS ANNEALER	565.895	4491.583	13.72	216	0.41	3.20	755.22	0.0175	No	0.077
PA	Allegheny	HUSSEY COPPER LTD.	HUSS5	AF-31 CONTINOUS ANNEALER	565.894	4491.682	18.29	216	0.36	3.66	699.67	0.0175	No	0.077
PA	Allegheny	HUSSEY COPPER LTD.	HUSS6	F-11 REHEAT FURNACE	565.800	4491.782	3.66	216	0.85	0.55	1088.56	0.0817	No	0.358
PA	Allegheny	HUSSEY COPPER LTD.	HUSS7	AF-15 PLATE ANNEALER	565.894	4491.682	2.44	216	0.85	0.04	810.78	0.0005	No	0.002
PA	Allegheny	HUSSEY COPPER LTD.	HUSS8	F-16 BELL FURNACE	565.894	4491.682	3.05	216	0.18	5.49	533.00	0.0161	No	0.070
PA	Allegheny	HUSSEY COPPER LTD.	HUSS9	F-25 BOX FURNACE	565.894	4491.682	3.05	216	0.15	7.92	533.00	0.0161	No	0.070
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA1	HMA AGGREGATE PROCESSING	595.198	4497.284	10.67	324	1.22	16.18	421.89	0.0525	No	0.230
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA2	HMA AGGREGATE PROCESSING	595.198	4497.284	10.36	324	1.25	14.69	295.22	0.3774	No	1.653
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA3	ASPHALT TANK HEATER UNITS	595.198	4497.284	3.66	324	0.61	6.47	477.44	0.0024	No	0.011
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA4	AGG HANDLING SAND	595.198	4497.284	9.75	324	1.19	14.20	295.22	1.1321	No	4.959
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA5	ONSITE VEHICLE/ HIGH LIFT	595.198	4497.284	20.42	324	0.64	6.68	295.22	0.0408	No	0.179
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA6	ONSITE VEHICLE/ HIGH LIFT	595.198	4497.284	3.96	324	0.03	5.58	295.22	0.0183	No	0.080
PA	Allegheny	IDL INCORPORATED	IDL1	UNPAVED PARKING LOTS	604.793	4479.682	8.23	347	0.55	9.05	295.22	0.0134	No	0.059
PA	Allegheny	IDL INCORPORATED	IDL2	MISC NATURAL GAS COMBUSTN	604.793	4479.682	16.15	347	0.91	10.30	295.22	0.0059	No	0.026
PA	Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	JEFFHS	BOILERS	590.615	4463.532	29.26	366	3.28	0.03	533.00	0.0649	No	0.284
PA	Allegheny	KELLY RUN SANITATION	KELRN1	DEDICATED DIESEL VEHICLES	595.093	4456.083	8.84	315	0.40	23.84	295.22	0.1719	No	0.753
PA	Allegheny	KELLY RUN SANITATION	KELRN2	BORROW/COVER ACTIVITY	595.093	4456.083	21.94	315	1.62	15.39	295.22	0.1056	No	0.463
PA	Allegheny	KELLY RUN SANITATION	KELRN3	BORROW/COVER ACTIVITY	595.093	4456.083	21.33	315	1.28	12.37	295.22	1.0227	No	4.479
PA	Allegheny	KELLY RUN SANITATION	KELRN4	ENCLOSED GROUND FLARE #1	595.093	4456.083	9.45	315	2.03	0.61	1160.78	0.1301	No	0.570
PA	Allegheny	KELLY RUN SANITATION	KELRN5	BLASTING	595.093	4456.083	8.84	315	0.98	15.21	295.22	0.1313	No	0.575
PA	Allegheny	KELLY RUN SANITATION	KELRN6	UNPAVED ROADS	595.093	4456.083	1.83	315	0.09	0.67	295.22	0.3836	No	1.680
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI1	PROCESS FURNACE	596.191	4491.779	21.33	245	1.13	9.05	295.22	0.0028	No	0.012
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI2	BOILER NATURAL GAS	596.191	4491.779	5.49	245	0.51	3.84	533.00	0.0026	No	0.011
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI3	PROCESS FURNACE NG	596.191	4491.779	3.05	245	0.30	50.02	589.11	0.0973	No	0.426
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL1	HOPKINS 800 HEATER	595.059	4467.601	3.66	223	0.76	2.07	1144.11	0.1104	No	0.484
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL2	SELLERS HEATER	595.195	4467.727	19.81	223	1.13	8.20	473.56	0.0038	No	0.017
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL3	THERMTECH VAPOR INCIN.	595.114	4467.652	19.81	223	1.13	8.20	295.22	0.0031	No	0.014
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL1	POT FURNACES	594.292	4475.179	36.57	280	2.44	20.22	505.22	0.0682	No	0.299
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL2	GLASS FORMING	594.292	4475.179	16.76	280	0.85	12.71	295.22	0.0240	No	0.105
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL3	TEMPERING	594.292	4475.179	12.19	280	0.10	0.03	366.33	0.0018	No	0.008
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL4	OFFICE HTG FURNACES	594.292	4475.179	12.19	280	0.30	0.37	394.11	0.0012	No	0.005
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL5	PLANT SPACE HEATERS	594.292	4475.179	15.85	280	0.67	7.10	295.22	0.0046	No	0.020
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR1	ROD PITCH MANUFACTURING	595.105	4462.297	15.24	222	0.30	3.05	324.67	0.0590	Yes	0.258
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR2	ROD PITCH MANUFACTURING	595.105	4462.297	14.93	222	0.61	8.02	295.22	0.1511	No	0.662
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR3	PRIMARY FLASH HEATER	595.043	4462.341	32.00	222	2.06	8.23	921.89	0.1627	Yes	0.713
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR4	PRILL HOT OIL HEATER	595.070	4462.296	12.19	222	0.61	1.25	921.89	0.0151	Yes	0.066
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR5	TRANSPORTATION	594.927	4462.332	14.02	222	0.40	16.82	295.22	0.0069	No	0.030
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR6	TRANSPORTATION	594.927	4462.332	11.58	222	0.70	4.60	295.22	0.1257	No	0.550
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR7	TRANSPORTATION	594.927	4462.332	8.84	222	0.40	23.84	295.22	0.0546	No	0.239
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR8	LOADING	594.927	4462.332	10.36	222	0.85	1.34	295.22	0.9260	No	4.056
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR9	COOLING TOWER	595.072	4462.341	17.37	222	4.54	10.55	295.22	0.1668	No	0.731
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM1	CEMENT BULK LOADING	578.295	4482.777	0.61	223	0.30	27.19	294.11	0.0193	No	0.085
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM2	BULK TRUCK LOADING	578.295	4482.777	0.61	223	0.30	19.63	294.11	0.0342	No	0.150
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM3	CEMENT UNLOADING FRM BRG	578.295	4482.777	0.61	223	0.30	0.61	294.11	0.0662	No	0.290
PA	Allegheny	LANGENFELDER & SON, INC.	LANG1	A SCRAP STORAGE & HANDLNG	597.692	4472.081	8.84	242	1.04	16.31	295.22	0.0707	No	0.310
PA	Allegheny	LANGENFELDER & SON, INC.	LANG2	SCRAP CUTTING AND LANCING	597.692	4472.081	23.16	242	1.83	9.69	295.22	0.0225	No	0.099

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	LANGENFELDER & SON, INC.	LANG3	SLAG PROCESSING	597.692	4472.081	8.84	242	1.04	16.67	295.22	0.6836	No	2.994
PA	Allegheny	LANGENFELDER & SON, INC.	LANG4	SLAG PROCESSING	597.692	4472.081	8.23	242	1.01	16.15	295.22	0.2106	No	0.922
PA	Allegheny	LANGENFELDER & SON, INC.	LANG5	UNPAVED ROADS	597.692	4472.081	8.53	242	1.01	16.28	295.22	0.1048	No	0.459
PA	Allegheny	LAUREL MOUNTAIN WHIRLPOOLS, INC.	LAURL	PROCESS & SPACE HEATING	600.496	4473.783	28.95	295	0.91	18.68	294.11	0.0030	No	0.013
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL1	SAWING-DUST COLLECTOR	593.490	4465.977	9.45	262	0.52	9.78	295.22	0.0046	No	0.020
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL2	BOILER, NG	593.490	4465.977	6.10	262	0.46	1.43	410.78	0.0048	No	0.021
PA	Allegheny	LIBERTY-PITTSBURGH SYSTEMS, INC.	LPSYS	NATURAL GAS USAGE	575.167	4484.610	15.24	218	0.82	7.86	295.22	0.0007	No	0.003
PA	Allegheny	LOZIER CORPORATION	LOZR1	FACILITY PROCESS, HEATING	584.889	4470.082	23.77	298	1.10	7.59	295.22	0.0087	No	0.038
PA	Allegheny	LOZIER CORPORATION	LOZR2	FACILITY HEATING NG-USUAG	584.889	4470.082	10.67	298	0.43	6.55	295.22	0.0026	No	0.011
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH1	ASPHALT PLANT	594.749	4467.158	4.88	223	0.80	27.70	380.22	0.2438	No	1.068
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH2	HOT OIL HEATER	594.992	4467.483	2.44	223	0.30	3.44	477.44	0.0002	No	0.001
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH3	GENERATOR	594.992	4467.483	4.27	223	0.20	0.03	533.00	0.0742	No	0.325
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH4	VEHICLE FUGITIVES	594.992	4467.483	20.42	223	0.64	6.68	295.22	0.0238	No	0.104
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH5	VEHICLE FUGITIVES	594.992	4467.483	8.84	223	0.40	23.84	295.22	0.0242	No	0.106
PA	Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	MARSH6	STOCKPILE NATURAL SAND	594.992	4467.483	9.75	223	1.19	14.20	295.22	0.6096	No	2.670
PA	Allegheny	MAYVIEW STATE HOSPITAL	MAYVW	BOILER PLANT	575.754	4464.212	21.03	274	1.50	2.50	505.22	0.1420	No	0.622
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR1	STEEL MAKING	587.795	4481.484	7.62	223	0.84	21.19	421.89	0.0486	No	0.213
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR10	MOLD AND SAND HANDLING	587.796	4481.384	12.50	223	0.82	17.13	295.22	1.4733	No	6.453
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR11	CLEANING AND FINISHING	587.796	4481.384	10.06	223	1.16	17.03	293.00	0.7957	No	3.485
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR12	CLEANING AND FINISHING	587.796	4481.384	12.80	223	1.51	9.02	293.00	0.1906	No	0.835
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR13	CLEANING AND FINISHING	587.796	4481.384	14.02	223	1.16	14.42	295.22	0.0180	No	0.079
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR14	CLEANING AND FINISHING	587.796	4481.384	10.67	223	0.98	19.57	295.22	0.1695	No	0.742
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR15	HEAT TREATING FURNACES	587.796	4481.384	15.85	223	0.67	7.10	295.22	0.0712	No	0.312
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR16	LANCE TABLE	587.796	4481.384	10.67	223	0.43	6.55	295.22	0.0029	No	0.013
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR17	ONSITE VEHICLE TRAFFIC	587.796	4481.384	13.41	223	1.07	12.22	295.22	0.0319	No	0.140
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR2	STEEL MAKING	587.694	4481.382	8.53	223	1.42	11.82	408.00	0.2095	No	0.918
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR3	STEEL MAKING	587.796	4481.384	14.63	223	1.98	14.78	295.22	0.2434	No	1.066
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR4	STEEL MAKING	587.796	4481.384	12.50	223	0.70	9.54	295.22	0.5554	No	2.433
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR5	STEEL MAKING	587.796	4481.384	11.89	223	1.13	12.19	295.22	0.5554	No	2.433
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR6	STEEL MAKING	587.796	4481.384	10.97	223	2.07	9.85	295.22	0.0873	No	0.382
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR7	MOLD AND SAND HANDLING	587.694	4481.382	8.53	223	0.99	28.57	293.00	0.9409	No	4.121
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR8	MOLD AND SAND HANDLING	587.696	4481.283	9.45	223	1.52	21.01	293.00	3.9884	No	17.469
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR9	MOLD AND SAND HANDLING	587.796	4481.384	14.02	223	1.25	18.14	295.22	0.8710	No	3.815
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF1	AXLE FORGE	579.591	4481.281	24.38	221	1.22	5.67	477.44	0.0467	No	0.205
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF2	AXLE FORGE	579.594	4480.981	11.89	221	0.52	7.53	295.22	0.0312	No	0.137
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF3	WHEEL FORGE	579.694	4481.182	6.10	221	1.52	1.62	644.11	0.0441	No	0.193
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY1	BOILER 1,4	585.994	4476.678	29.26	256	1.22	0.03	394.11	0.0416	No	0.182
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY2	BOILER 2-3	585.994	4476.678	19.81	256	1.13	8.20	295.22	0.0803	No	0.352
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY3	COOLING TOWERS	585.994	4476.678	9.14	256	4.33	9.05	295.22	0.6519	No	2.855
PA	Allegheny	METALTECH	METAL1	NATURAL GAS COMBUSTION	587.393	4476.683	20.12	225	1.07	4.24	449.67	0.2759	No	1.208
PA	Allegheny	METALTECH	METAL2	NATURAL GAS COMBUSTION	587.393	4476.683	19.81	225	1.13	8.20	288.56	0.0004	No	0.002
PA	Allegheny	METALTECH	METAL3	NATURAL GAS COMBUSTION	587.392	4476.783	1.52	225	0.30	3.23	366.33	0.0161	No	0.070
PA	Allegheny	METALTECH	METAL4	MISCELLANEOUS	587.393	4476.683	12.50	225	0.58	7.38	288.56	0.0731	No	0.320
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN1	SCREENS	594.854	4461.654	24.08	225	1.46	7.92	331.33	0.1002	No	0.439
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN2	STORAGE PILES	594.854	4461.654	10.36	225	0.55	5.49	338.00	0.7105	No	3.112
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN3	ROAD EMISSIONS	594.854	4461.654	40.23	225	1.65	4.97	416.33	0.0139	No	0.061
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN4	EQUIPMENT FUEL USAGE	594.854	4461.654	12.80	225	0.58	5.85	380.22	0.0003	No	0.001
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	DOCK1	DOCK 1 UNLOADING	594.335	4463.387	3.5	232	--	--	--	0.0385	No	0.169
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	DOCK2	DOCK 2 LOADING	594.724	4463.123	2.7	232	--	--	--	0.2674	No	1.171
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	DOCK3	DOCK 3 UNLOADING	594.840	4463.073	4.3	232	--	--	--	0.0539	No	0.236
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	MOBL	TRUCK EMISSIONS	594.941	4463.091	2.3	232	--	--	--	0.3429	No	1.502

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	PILE	STORAGE PLES	595.057	4463.011	6.1	232	--	--	--	0.0723	No	0.317
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	RAILCR	RAILCAR UNLOADING	594.763	4463.115	2.3	232	--	--	--	0.1157	No	0.507
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	TRANBN	TRANSFER BIN	594.740	4463.151	3.1	232	--	--	--	0.0964	No	0.422
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV1	SLANT FIN BOILER #2 FO	569.898	4486.279	2.13	221	0.15	0.03	533.00	0.0006	No	0.003
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV2	OFFICE HEATER NATURAL GAS	569.292	4486.684	42.37	221	0.40	2.83	295.22	0.0021	No	0.009
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB1	BOILERS	580.595	4469.879	18.29	354	0.91	0.03	394.11	0.0366	No	0.161
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB2	VEHICLE TRAFFIC	580.595	4469.901	36.88	354	1.19	5.58	295.22	0.0006	No	0.003
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH1	HIGH PRESSURE BOILERS	595.495	4459.274	7.62	232	0.41	13.41	560.78	0.0158	No	0.069
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH2	LOW PRESSURE BOILER NG	595.495	4459.274	7.62	232	0.30	6.40	505.22	0.0004	No	0.002
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH3	FORK TRUCK-CLARK #2 FUEL	595.495	4459.274	3.96	232	0.03	5.58	295.22	0.0028	No	0.012
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH4	FORK TRUCK-CLARK #2 FUEL	595.495	4459.274	0.00	232	0.00	0.00	295.22	0.5255	No	2.302
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH5	GRIT BLASTING	595.495	4459.274	3.05	232	0.20	4.00	295.22	0.0020	No	0.009
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL1	500# COMBUSTER	586.890	4462.234	24.08	302	0.20	31.09	410.78	0.0024	No	0.011
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL2	EXP. COAL COMBUSTER -CERF	586.894	4461.879	15.24	302	0.10	5.94	338.56	0.0001	No	0.000
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL3	AJAX BOILER - BLDG 922	586.894	4461.879	15.85	320	0.81	2.59	394.11	0.0007	No	0.003
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL4	RAYPAK BOILERS - BLDG 921	586.894	4461.879	8.53	320	0.61	2.22	394.11	0.0002	No	0.001
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL5	3 KEWANEE BLRS - BLDG 84	586.894	4461.879	21.33	302	0.61	2.38	499.67	0.0009	No	0.004
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL6	BOILER STACK	586.894	4461.879	155.44	302	4.45	18.90	295.22	0.1740	No	0.762
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC1	NO. 3 STILL PROCESS HEATR	576.394	4483.878	9.14	221	0.46	6.31	599.67	0.0091	No	0.040
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC10	NO. 2 PACKAGING CENTER	576.394	4483.878	3.66	221	0.29	22.10	293.00	0.0429	No	0.188
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC11	#2 PKG. CENTER HEATER NG	576.394	4483.878	11.28	221	0.76	2.59	602.44	0.0068	No	0.030
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC12	#3 PACKAGING CTR. HTR. NG	576.394	4483.878	15.54	221	0.61	2.44	603.00	0.0143	No	0.063
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC13	#5 PACKAGINC CTR. HTR. NG	576.394	4483.878	7.31	221	0.46	4.30	610.78	0.0158	No	0.069
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC14	NO. 8 BOILER	576.394	4483.878	16.46	221	1.22	0.58	544.11	0.0154	No	0.067
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC15	NO. 6 BOILER	576.394	4483.878	10.67	221	0.91	8.35	451.89	0.2102	No	0.921
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC16	NO. 7 BOILER	576.394	4483.878	12.19	221	1.22	7.89	600.22	0.3571	No	1.564
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC17	VEHICLE EXHAUST	576.394	4483.878	14.02	221	0.40	16.82	295.22	0.0137	No	0.060
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC18	VEHICLE EXHAUST	576.394	4483.878	8.84	221	0.40	23.84	295.22	0.0595	No	0.260
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC19	HYDROLASER/WATER BLASTING	576.394	4483.878	15.24	221	0.64	11.09	295.22	0.1963	No	0.860
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC2	#4 STILL PROCESS HEATER	576.394	4483.878	17.68	221	1.31	1.83	599.67	0.0303	No	0.133
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC20	UNIT 43 OXIDIZER NG	576.394	4483.878	7.01	221	0.61	3.23	599.67	0.0392	No	0.172
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC3	#15 STILL PROCESS HTR. NG	576.394	4483.878	21.33	221	0.85	3.29	689.67	0.0085	No	0.037
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC4	#16 STILL PROCESS HTR. NG	576.394	4483.878	17.37	221	0.69	3.69	643.00	0.0083	No	0.037
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC5	#18 STILL PROCESS HTR. NG	576.394	4483.878	13.41	221	0.61	6.16	614.11	0.0098	No	0.043
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC6	#19 STILL PROCESS HTR. NG	576.394	4483.878	8.23	221	0.76	3.93	611.33	0.0112	No	0.049
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC7	UNIT 21 PROCESS	576.394	4483.878	13.72	221	0.30	0.01	294.11	0.0002	No	0.001
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC8	UNIT C-5 PROCESS HTR., NG	576.394	4483.878	10.97	221	0.53	4.26	602.44	0.0112	No	0.049
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC9	NO. 2 PACKAGING CENTER	576.394	4483.878	4.57	221	0.61	7.83	293.00	0.0251	No	0.110
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM1	RAW MATERIAL UNLOADING	566.974	4490.216	19.51	212	1.28	10.45	295.22	0.3579	No	1.567
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM2	MATERIAL CONVEYORS	566.974	4490.216	15.85	212	1.25	10.18	295.22	0.3253	No	1.425
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM3	BALL MILL	566.974	4490.216	14.02	212	0.38	18.29	294.11	0.0277	No	0.121
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM4	MECHANICAL SEPARATOR	566.974	4490.216	15.54	212	1.25	12.28	295.22	0.0107	No	0.047
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM5	FINISHED PRODUCT TRANSFER	566.974	4490.216	19.81	212	1.43	12.89	295.22	0.1567	No	0.686
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM6	TRUCK LOADING	566.974	4490.216	18.29	212	0.94	11.22	295.22	0.0434	No	0.190
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM7	VEHICLE EMISSIONS ON SITE	566.974	4490.216	0.00	212	0.00	0.00	295.22	0.0187	No	0.082
PA	Allegheny	NEXTECH	NEXT1	NATURAL GAS COMBUSTION	599.334	4473.161	25.60	236	1.46	1.98	449.67	0.1986	No	0.870
PA	Allegheny	NEXTECH	NEXT2	NATURAL GAS COMBUSTION	599.334	4473.161	33.83	236	1.34	10.52	473.00	0.0103	No	0.045
PA	Allegheny	NEXTECH	NEXT3	NATURAL GAS COMBUSTION	599.334	4473.161	13.72	236	0.55	2.19	366.33	0.0009	No	0.004
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG1	BOILER NO. 1, NATURAL GAS	584.273	4478.101	15.24	235	0.91	24.14	591.33	0.0709	No	0.311
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG2	BOILER NO. 2, NATURAL GAS	584.273	4478.101	15.24	235	0.91	17.10	427.44	0.1977	No	0.866
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG3	BOILER NO. 3, NATURAL GAS	584.273	4478.101	15.24	235	1.22	16.18	552.44	0.3812	No	1.670

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG4	BOILER NO. 4, NATURAL GAS	584.273	4478.101	18.29	235	0.71	9.14	477.44	0.0056	No	0.025
PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN1	TURBINES 1A,1B,1C	581.245	4479.633	10.06	222	2.00	24.11	735.22	0.0563	No	0.246
PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN2	TURBINES 2A, 2B, 3 - NG	581.038	4479.953	21.03	222	3.10	23.01	433.00	0.1915	No	0.839
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR1	IMPREGNATOR/LAMINATOR	593.244	4497.870	13.72	284	0.46	2.13	338.56	0.0011	No	0.005
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR2	SCREEN PRINTER	593.244	4497.870	5.79	284	0.43	13.11	394.11	0.0009	No	0.004
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC1	ENGINE TEST LAB	599.191	4488.976	9.14	233	0.13	0.03	533.00	0.1564	No	0.685
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC2	D2 ROAD SIMULATOR	599.191	4488.976	9.14	233	0.16	0.03	294.11	0.0695	No	0.304
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC3	BUILDING B11 W STACK	599.293	4488.977	9.14	233	0.30	0.03	294.11	0.0043	No	0.019
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL1	LARGE BAKE OVEN, NG	594.207	4463.670	12.19	262	0.37	11.58	416.33	0.0013	Yes	0.006
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL2	SMALL BAKE OVEN, NG	594.207	4463.670	12.50	262	0.23	1.54	408.00	0.0020	Yes	0.009
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL3	COLLAPSIBLE BLASTING ROOM	594.207	4463.670	3.05	262	0.20	4.00	295.22	0.0003	Yes	0.002
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL4	COIL MFG. OVEN 3 UNITS NG	594.207	4463.670	10.97	262	0.20	0.03	533.00	0.0031	Yes	0.013
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL5	GAS INSULATOR	594.207	4463.670	10.97	262	0.20	0.03	294.11	0.0001	Yes	0.001
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL6	SPACE HEATERS, NG	594.207	4463.670	10.67	262	0.43	6.55	383.00	0.0048	Yes	0.021
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL7	SMALL BURNOFF OVEN	594.207	4463.670	15.24	262	0.20	4.75	1033.00	0.0003	Yes	0.002
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL8	LARGE BURNOFF OVEN	594.207	4463.670	12.19	262	0.46	6.40	1033.00	0.0005	Yes	0.002
PA	Allegheny	PITT PENN OIL COMPANY	PITPN1	BOILER, NG	603.493	4491.477	7.92	228	0.41	1.83	533.00	0.0008	No	0.003
PA	Allegheny	PITT PENN OIL COMPANY	PITPN2	MISC SPACE HEATERS	603.489	4492.376	15.85	228	0.67	7.10	293.00	0.0018	No	0.008
PA	Allegheny	PITT PENN OIL COMPANY	PITPN3	INDUSTRIAL ROADS	603.489	4492.376	10.67	228	0.40	11.13	293.00	0.0158	No	0.069
PA	Allegheny	PITT PENN OIL COMPANY	PITPN4	INDUSTRIAL ROADS	603.489	4492.376	7.62	228	0.64	7.59	293.00	0.0224	No	0.098
PA	Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LT	PACT	BOILERS	584.475	4477.415	63.09	220	5.41	2.71	394.11	0.7340	No	3.215
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW1	COAL BOILER #1-TRAV GRATE	587.641	4479.417	64.00	232	2.40	4.60	478.00	0.9391	No	4.113
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW2	DRY GRAIN HANDLING	587.496	4479.482	10.67	232	1.16	11.92	295.22	0.1237	No	0.542
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW3	WEIGH HOPPER&MALT MILL	587.496	4479.482	23.16	232	0.55	10.30	295.22	0.0015	No	0.006
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW4	COOKING,BREW,SEPAR.	587.496	4479.482	19.51	232	0.15	3.51	371.89	0.0046	No	0.020
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW5	COAL STORAGE & HANDLING	587.496	4479.482	11.89	232	0.49	8.78	295.22	0.0091	No	0.040
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI1	MICA MACHINE, OTHER	593.395	4473.580	19.81	224	1.13	8.20	295.22	0.0006	No	0.003
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI2	SPACE HEAT	593.395	4473.580	3.96	224	0.91	4.42	327.44	0.0006	No	0.003
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	PPGCH1	NO 2 STEAM BOILER	608.720	4477.872	11.89	366	1.20	4.60	348.00	0.0050	No	0.022
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	PPGCH2	NO 3-5 STEAM BOILERS	608.720	4477.872	7.62	366	0.61	4.28	450.78	0.0357	No	0.157
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP1	PAINT MANU.-RTO-SEE COM.	602.752	4488.080	13.11	232	0.60	14.60	476.89	1.4255	No	6.244
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP2	PAINT MAN.(NO RTO)SEE COM	602.752	4488.080	10.36	232	0.76	4.72	295.22	0.0168	No	0.074
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP3	BOILERS	602.752	4488.080	19.81	232	1.13	8.20	295.22	0.0711	No	0.312
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT1	48" COATING LINE	598.365	4464.883	14.32	226	0.88	10.67	295.22	0.0295	No	0.129
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT2	60" COATING LINE	598.365	4464.883	13.72	226	1.52	15.24	1033.00	0.0645	Yes	0.283
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT3	60" COATING LINE	598.365	4464.883	13.72	226	0.46	6.34	380.22	0.0010	Yes	0.004
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT4	60" COATING LINE	598.365	4464.883	13.72	226	1.52	12.37	977.44	0.0556	Yes	0.244
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT5	YORK SHIPLEY BOILER #1NG	598.365	4464.883	4.27	226	0.15	2.44	533.00	0.0180	Yes	0.079
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	PRECT6	MISC. SPACE & H2O HEATERS	598.365	4464.883	15.24	226	0.82	7.86	295.22	0.0182	No	0.080
PA	Allegheny	PRESSURE CHEMICAL COMPANY	PRESSR	ALL NG COMBUSTION UNITS	587.393	4479.580	10.67	221	0.43	6.55	294.11	0.0087	No	0.038
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET1	MEDIA MILLS	579.993	4479.376	8.84	228	0.58	8.44	315.78	0.1729	No	0.757
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET2	HEATING & VEHICLES	579.993	4479.376	15.85	228	0.67	7.10	295.22	0.0018	No	0.008
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR1	STEAM BOILER KH-1, NG	589.096	4486.084	6.10	238	0.46	10.67	533.00	0.0226	No	0.099
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR2	DRY GOODS HANDLING	589.197	4486.174	13.72	238	0.30	19.41	294.11	0.0605	No	0.265
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR3	COOLING TOWER	589.197	4486.174	9.14	238	1.22	0.03	294.11	0.0842	No	0.369
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN1	PLANT FUGITIVE EMISSIONS	598.097	4490.382	12.19	305	1.62	6.49	295.22	0.0147	No	0.064
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN2	PLANT FUGITIVE EMISSIONS	598.097	4490.382	8.84	305	0.40	23.84	295.22	0.0499	No	0.219
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN3	RAW MATERIAL STORAGE	598.097	4490.382	13.41	305	0.55	15.73	295.22	0.0029	No	0.013
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN4	CRUSHING/GRINDING/SCREEN	598.097	4490.382	11.89	305	0.70	15.12	295.22	0.0261	No	0.114
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN5	CRUSHING/GRINDING/SCREEN	598.097	4490.382	3.05	305	0.20	4.00	295.22	0.0067	No	0.029
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN6	EXTRUSION LINE	598.097	4490.382	21.33	305	0.61	29.26	294.11	0.0408	No	0.179

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN7	BRICK SANDBLASTING	598.097	4490.382	7.62	305	0.58	11.22	295.22	0.0756	No	0.331
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN8	BRICK DRYER	598.097	4490.382	15.54	305	1.22	12.80	355.22	0.8723	No	3.821
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN9	NEW PLANT TUNNEL KILN	598.097	4490.382	12.50	305	0.94	11.73	295.22	3.3058	No	14.479
PA	Allegheny	REICHHOLD, INC.	REIC1	BOILERS	574.398	4468.084	22.86	250	0.91	10.18	493.56	0.1560	No	0.683
PA	Allegheny	REICHHOLD, INC.	REIC10	COOLING TOWERS	574.398	4468.084	9.14	250	4.33	9.05	295.22	4.1492	No	18.174
PA	Allegheny	REICHHOLD, INC.	REIC11	RESIN COOLING BELT	574.398	4468.084	10.97	250	0.76	13.36	399.67	0.0218	No	0.095
PA	Allegheny	REICHHOLD, INC.	REIC12	RESIN COOLING BELT	574.398	4468.084	12.19	250	0.15	3.47	295.22	0.0241	No	0.106
PA	Allegheny	REICHHOLD, INC.	REIC2	THERMAL OXID.#1, BACKUP	574.398	4468.084	12.19	250	0.91	17.89	482.44	0.0010	No	0.004
PA	Allegheny	REICHHOLD, INC.	REIC3	PAA STG, T-703, WT-102	574.398	4468.084	8.84	250	1.19	0.43	295.22	0.0425	No	0.186
PA	Allegheny	REICHHOLD, INC.	REIC4	PAA STG, T-703, WT-102	574.398	4468.084	5.49	250	0.12	0.00	295.22	0.0411	No	0.180
PA	Allegheny	REICHHOLD, INC.	REIC5	THERMINOL FURNACE,NAT GAS	574.398	4468.084	15.54	250	2.06	0.03	671.89	0.0299	No	0.131
PA	Allegheny	REICHHOLD, INC.	REIC6	BLDG 39 POLYESTER RESINS	574.398	4468.084	12.19	250	0.61	4.02	449.67	0.0070	No	0.031
PA	Allegheny	REICHHOLD, INC.	REIC7	DOWTHERM VAPORIZER #1 & 2	574.398	4468.084	15.54	250	0.51	1.74	783.00	0.0016	No	0.007
PA	Allegheny	REICHHOLD, INC.	REIC8	FUGITIVES EQUIPMENT	574.398	4468.084	8.53	250	0.61	2.53	295.22	0.0018	No	0.008
PA	Allegheny	REICHHOLD, INC.	REIC9	MAA STG 707,WT 103	574.398	4468.084	8.84	250	0.67	1.22	295.22	0.0621	No	0.272
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS1	BLDG#6 HOT MELT	596.091	4482.385	4.27	231	0.69	0.03	310.78	0.0008	No	0.004
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS2	BLDG#9 GENERAL COATINGS	596.091	4482.385	1.83	231	0.16	0.03	294.11	0.0201	No	0.088
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS3	BLDG#10 NATURAL GAS	596.115	4483.185	1.22	231	0.16	0.03	294.11	0.0006	No	0.003
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO1	HSI AREA, SOLUTION POLY	593.093	4457.579	28.65	225	0.08	0.21	283.00	0.0126	No	0.055
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO2	HSI AREA, SOLUTION POLY	593.093	4457.579	3.66	225	0.26	73.76	293.00	0.0249	No	0.109
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO3	HSI AREA, SOLUTION POLY	593.093	4457.579	28.95	225	0.20	21.79	310.78	0.0074	No	0.033
PA	Allegheny	SCHENLEY SCHOOL	SCHNLY	GAS FIRED BOILERS	588.593	4478.484	38.10	305	2.29	0.03	533.00	0.0200	No	0.087
PA	Allegheny	SHALER AREA INTERMEDIATE SCHOOL	SHALR	BOILERS	601.896	4486.881	9.45	305	0.79	0.03	421.89	0.0087	No	0.038
PA	Allegheny	SHENANGO INC.	SHEN1	BOILER #9, COKE OVEN GAS	578.213	4483.353	38.10	221	3.10	10.09	627.44	1.4503	No	6.352
PA	Allegheny	SHENANGO INC.	SHEN10	COAL STOCKPILE EROSION	578.193	4482.876	91.44	221	4.33	4.63	295.22	0.0822	No	0.360
PA	Allegheny	SHENANGO INC.	SHEN11	COKE HANDLING	578.193	4482.876	24.08	221	1.46	7.92	295.22	0.0174	No	0.076
PA	Allegheny	SHENANGO INC.	SHEN12	COOLING TOWERS	578.193	4482.876	9.14	221	4.33	9.05	295.22	0.8904	No	3.900
PA	Allegheny	SHENANGO INC.	SHEN13	UNPAVED ROADS	578.193	4482.876	17.07	221	0.82	8.02	295.22	0.5525	No	2.420
PA	Allegheny	SHENANGO INC.	SHEN14	EMERGENCY FLARE	577.998	4482.885	21.33	221	0.91	24.08	584.11	0.0004	No	0.002
PA	Allegheny	SHENANGO INC.	SHEN15	EMERGENCY FLARE	578.193	4482.876	14.02	221	0.58	4.39	295.22	0.0003	No	0.001
PA	Allegheny	SHENANGO INC.	SHEN16	PLANT VEHICLE EXHAUST	578.193	4482.876	14.02	221	0.40	16.82	295.22	0.0061	No	0.027
PA	Allegheny	SHENANGO INC.	SHEN17	PLANT VEHICLE EXHAUST	578.193	4482.876	8.84	221	0.40	23.84	295.22	0.5562	No	2.436
PA	Allegheny	SHENANGO INC.	SHEN18	#1 PACKAGE BOILER	577.692	4482.982	21.33	221	0.91	14.84	421.89	0.0029	No	0.013
PA	Allegheny	SHENANGO INC.	SHEN2	BOILER #10, COKE OVEN GAS	578.265	4483.298	34.14	221	3.10	10.70	477.44	0.8424	No	3.690
PA	Allegheny	SHENANGO INC.	SHEN3	BATTERY S1 FUGITIVES	578.193	4482.876	56.39	221	2.65	4.88	295.22	0.0162	No	0.071
PA	Allegheny	SHENANGO INC.	SHEN4	BATTERY S1 FUGITIVES	578.193	4482.876	55.17	221	2.35	6.58	295.22	0.0320	No	0.140
PA	Allegheny	SHENANGO INC.	SHEN5	BATTERY S1 FUGITIVES	578.193	4482.876	53.03	221	2.10	6.77	295.22	0.4438	No	1.944
PA	Allegheny	SHENANGO INC.	SHEN6	BATTERY S-1 UNDERFIRE	577.897	4483.572	76.20	221	2.59	9.02	590.22	4.1884	No	18.345
PA	Allegheny	SHENANGO INC.	SHEN7	PEC BAGHOUSE	577.998	4482.885	45.72	221	3.05	19.41	294.11	5.0913	No	22.300
PA	Allegheny	SHENANGO INC.	SHEN8	QUENCH TOWER, BATTERY S-1	578.193	4482.876	17.07	221	4.57	4.31	338.56	1.4795	No	6.480
PA	Allegheny	SHENANGO INC.	SHEN9	COAL HANDLING	578.193	4482.876	55.17	221	1.71	6.49	295.22	0.0792	No	0.347
PA	Allegheny	SOUTH HIGH SCHOOL	SOUTH	GAS FIRED BOILERS # 1-3	585.696	4475.975	32.00	223	1.68	0.03	533.00	0.0143	No	0.063
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI1	BOILER	581.194	4480.476	53.34	215	2.44	2.90	588.56	0.0680	No	0.298
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI2	FM01 COAL BUNKER	581.193	4480.576	20.12	215	1.10	17.43	295.22	0.0001	No	0.001
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI3	BAKING OVEN	581.193	4480.576	16.76	215	0.64	8.38	295.22	0.0017	No	0.008
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI4	EMERGENCY ELECTRICITY	581.193	4480.576	12.50	215	0.43	13.35	295.22	0.0029	No	0.013
PA	Allegheny	SUN REFINING AND MARKETING, BLAWNOX	SUNREF	FURNACES C2G-15,C3GO25 NG	596.596	4483.979	42.37	296	0.40	2.83	295.22	0.0027	No	0.012
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV1	PLASTICIZER PLANT	577.995	4483.184	8.53	222	0.61	10.30	295.22	0.0710	No	0.311
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV2	PHTHALIC ANHYDRIDE DIST	577.995	4483.184	3.05	222	0.20	4.00	295.22	0.0434	No	0.190
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV3	ONSITE VEHICLES EMISSIONS	577.995	4483.184	14.02	222	0.40	16.82	295.22	0.0015	No	0.006
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV4	ROAD DUST EMISSIONS	577.995	4483.184	11.89	222	1.19	6.95	295.22	0.0050	No	0.022

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	LANEBR	ROTARY DRYERS	575.190	4469.579	10.36	247	0.91	13.41	366.33	1.1829	No	5.181
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM1	STOCKPILE OF AGGREGATES	580.591	4480.581	10.06	222	1.20	12.19	377.44	1.1632	No	5.095
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM2	ROTARY DRYER	580.591	4480.581	10.36	222	0.55	5.49	295.22	0.0012	No	0.005
PA	Allegheny	THE VALSPAR CORPORATION	VALSP1	BUILDING 5, THIOKOL	580.994	4480.885	9.14	218	0.91	3.84	326.33	0.6619	No	2.899
PA	Allegheny	THE VALSPAR CORPORATION	VALSP2	BUILDING 7, SMALL ORDER	580.994	4480.885	9.14	218	0.91	3.84	295.22	0.0234	No	0.102
PA	Allegheny	THE VALSPAR CORPORATION	VALSP3	BOILERS, CB 720-150	580.994	4480.885	15.24	218	0.46	0.03	338.56	0.0177	No	0.078
PA	Allegheny	THE VALSPAR CORPORATION	VALSP4	BOILERS - KEWANEE	580.994	4480.885	15.24	218	0.82	7.86	295.22	0.0184	No	0.081
PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT1	ABRASIVE BLAST	579.796	4480.384	4.57	224	0.52	0.03	310.78	0.0251	No	0.110
PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT2	INT & EXT COATINGS	579.796	4480.384	15.24	224	0.82	7.86	295.22	0.0057	No	0.025
PA	Allegheny	TRUMBULL CORPORATION	TRUMB1	CARBONATES AGGREGATE	572.996	4484.777	9.75	219	1.19	14.20	295.22	1.0323	No	4.522
PA	Allegheny	TRUMBULL CORPORATION	TRUMB2	LIMESTONE COARSE	572.996	4484.777	12.50	219	0.58	14.84	295.22	0.1600	No	0.701
PA	Allegheny	TRUMBULL CORPORATION	TRUMB3	ROTARY DRUM	572.996	4484.777	10.67	219	1.26	28.59	449.67	0.6993	No	3.063
PA	Allegheny	TRUMBULL CORPORATION	TRUMB4	COLD AGGREGATE HANDLING	572.996	4484.777	10.36	219	1.25	14.69	295.22	1.1196	No	4.904
PA	Allegheny	TRUMBULL CORPORATION	TRUMB5	HIGHLIFT	572.996	4484.777	3.96	219	0.03	5.58	295.22	0.0580	No	0.254
PA	Allegheny	TRUMBULL CORPORATION	TRUMB6	ROADWAY FUGITIVE DUST	572.996	4484.777	20.42	219	0.64	6.68	295.22	0.0338	No	0.148
PA	Allegheny	TUBE CITY, INC.	TUBE1	SCRAP METAL SHREDDING	588.990	4467.177	4.57	369	0.91	0.03	294.11	0.0365	No	0.160
PA	Allegheny	TUBE CITY, INC.	TUBE2	SCRAP METAL SHEARING	588.990	4467.177	17.07	369	0.82	8.02	295.22	0.0068	No	0.030
PA	Allegheny	TUBE CITY, INC.	TUBE3	SPACE HEATERS (ALL)	588.990	4467.177	42.37	369	0.40	2.83	295.22	0.0009	No	0.004
PA	Allegheny	TUBE CITY, INC.	TUBE4	ROADWAY TRAFFIC - UNPAVED	588.990	4467.177	40.23	369	1.65	4.97	295.22	0.0044	No	0.019
PA	Allegheny	TUBE CITY, INC.	TUBE5	TORCH CUTTING OPERATIONS	588.990	4467.177	21.94	369	2.26	18.35	295.22	0.0746	No	0.327
PA	Allegheny	TUBE CITY, INC.	TUBE6	ROADWAY TRAFFIC - PAVED	588.990	4467.177	36.88	369	1.19	5.58	295.22	0.0008	No	0.004
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE1	HEATERS, FURNACES, ETC	578.198	4474.283	13.72	235	0.15	0.03	294.11	0.0018	No	0.008
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE2	HARDENING FURNACES	578.198	4474.283	9.14	235	0.91	4.31	294.11	0.0905	No	0.396
PA	Allegheny	UNITED REFINING CO.SPRINGDALE ASPHALT T	UNIREF	BOILER F-2	603.517	4492.188	7.01	232	0.61	4.60	496.89	0.0121	No	0.053
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC1	FACILITY BOILERS	599.293	4488.944	46.02	288	1.31	15.21	477.44	0.1461	No	0.640
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC2	HOT WATER BOILERS	598.895	4488.983	9.14	288	0.76	2.20	516.33	0.0022	No	0.010
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC3	DIESEL EMERG GEN	599.192	4488.876	8.84	288	0.40	23.84	295.22	0.0007	No	0.003
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC4	EMERG GENERATORS NG	599.192	4488.876	7.62	288	0.30	26.58	295.22	0.0088	No	0.039
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC5	GASOLINE VEHICLES	599.192	4488.876	3.05	288	0.20	4.00	295.22	0.0020	No	0.009
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	UPARC6	DIESEL VEHICLES	599.192	4488.876	3.96	288	0.03	5.58	295.22	0.0019	No	0.009
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL1	ELECTRIC ARC FURNACE G	575.687	4468.263	21.03	250	4.50	14.51	312.44	1.2763	No	5.590
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL10	WARMING FURNACE	575.692	4467.775	15.24	250	0.82	7.86	295.22	0.0205	No	0.090
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL11	ROAD DUST	575.692	4467.775	40.23	250	1.65	4.97	295.22	0.0114	No	0.050
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL12	ROAD DUST	575.692	4467.775	36.88	250	1.19	5.58	295.22	0.0098	No	0.043
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL13	VEHICLE EMISSIONS	575.692	4467.775	3.96	250	0.03	5.58	295.22	0.2463	No	1.079
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL2	ELECTRIC ARC FURNACE G	575.692	4467.775	26.82	250	1.40	6.13	295.22	0.4521	No	1.980
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL3	ELECTRIC ARC FURNACE G	575.692	4467.775	24.99	250	2.44	11.73	295.22	0.3447	No	1.510
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL4	ARGON-OXYGEN DECARB (AOD)	575.692	4467.775	9.14	250	1.40	12.22	295.22	0.2009	No	0.880
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL5	LADLE REHEAT	575.692	4467.775	13.11	250	0.70	5.79	295.22	0.0172	No	0.075
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL6	ELECTRO-SLAG REMELT S	575.692	4467.775	4.57	250	0.70	22.01	291.33	0.0013	No	0.006
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL7	SPACE HEATERS	575.692	4467.775	10.67	250	0.43	6.55	295.22	0.0079	No	0.035
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL8	ANNEALING FURNACES	575.692	4467.775	33.83	250	1.34	10.52	295.22	0.4300	No	1.883
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL9	LIME SILO	575.692	4467.775	45.72	250	0.40	1.46	295.22	0.0011	No	0.005
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT1	NG BOILERS	588.250	4477.426	23.77	281	1.10	7.59	295.22	0.0792	No	0.347
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT2	DIESEL EMERG GENS	588.250	4477.426	8.84	281	0.40	23.84	295.22	0.0364	No	0.160
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT3	NG EMER HEATERS	588.250	4477.426	7.62	281	0.30	26.58	295.22	0.0007	No	0.003
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT4	WELDING RODS	588.250	4477.426	3.05	281	0.20	4.00	295.22	0.0001	No	0.001
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO1	MONTEFIORE BOILERS	588.025	4477.068	53.03	305	1.80	8.11	477.44	0.1056	No	0.463
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO2	SCAIFE INCINERATORS	588.106	4477.402	57.60	310	0.91	4.91	583.00	0.0270	No	0.118
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO3	BST INCINERATOR	588.014	4477.301	85.34	310	0.41	12.19	338.56	0.0011	No	0.005
PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE1	BOILERS	588.089	4476.647	36.88	274	0.91	1.31	505.22	0.1121	No	0.491

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PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE2	EMERGENCY GENERATORS	588.097	4476.680	12.19	274	1.04	25.60	613.00	0.0097	No	0.043
PA	Allegheny	UPMC MCKEESPORT	UPMCM1	BOILER #1	597.703	4467.440	15.24	244	0.91	5.64	477.44	0.0172	No	0.075
PA	Allegheny	UPMC MCKEESPORT	UPMCM2	BOILER #2	597.703	4467.440	15.24	244	0.91	5.64	463.56	0.0172	No	0.075
PA	Allegheny	UPMC MCKEESPORT	UPMCM3	EMERGENCY GENERATORS	597.703	4467.440	13.72	244	0.24	32.12	766.33	0.0096	No	0.042
PA	Allegheny	UPMC MCKEESPORT	UPMCM4	GAS FIRED CHILLERS	597.703	4467.440	15.24	244	0.09	28.74	421.89	0.0364	No	0.159
PA	Allegheny	UPMC SHADYSIDE	UPMCS1	MAIN BOILERS	589.913	4478.755	46.02	270	2.10	1.71	560.78	0.1831	No	0.802
PA	Allegheny	UPMC SHADYSIDE	UPMCS2	EAST WING BOILERS	589.192	4478.780	27.43	270	0.41	7.31	505.22	0.0027	No	0.012
PA	Allegheny	UPMC SHADYSIDE	UPMCS3	MEDICAL CENTER BOILERS	589.192	4478.780	4.57	270	0.41	7.31	505.22	0.0050	No	0.022
PA	Allegheny	UPMC SHADYSIDE	UPMCS4	MEDICAL CENTER BOILERS	589.192	4478.780	3.66	234	0.41	7.31	505.22	0.0050	No	0.022
PA	Allegheny	UPMC SHADYSIDE	UPMCS5	EMERGENCY GENERATORS	589.192	4478.780	11.28	270	0.40	8.96	295.22	0.0724	No	0.317
PA	Allegheny	UPMC SOUTHSIDE	UPMSS1	HEATING BOILERS	586.692	4475.676	34.14	234	0.61	0.03	449.67	0.0350	No	0.153
PA	Allegheny	UPMC SOUTHSIDE	UPMSS2	HOSPITAL EMER. GENERATORS	586.692	4475.676	11.28	234	0.40	8.96	295.22	0.0197	No	0.086
PA	Allegheny	US AIRWAYS MAINTENANCE BASE	AIRMNT	HG1-5-1 VEHICLE EXHST	564.894	4483.981	9.14	358	0.30	8.08	294.11	0.0236	No	0.103
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILR1	BOILER 1	595.036	4462.717	57.91	231	2.70	29.59	458.00	5.3048	Yes	23.235
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILR2	BOILER 2	595.021	4462.720	57.91	231	2.10	22.01	423.56	4.1600	Yes	18.221
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILRR	BOILER R1/R2	594.902	4462.606	49.98	231	2.59	7.50	495.78	0.2509	Yes	1.099
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILT1	BOLIER T1	594.855	4462.561	27.13	231	1.50	9.11	495.78	0.0938	Yes	0.411
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILT2	BOLIER T2	594.845	4462.569	27.13	231	1.50	9.11	495.78	0.0938	Yes	0.411
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR1	COOLING TOWER 1	595.451	4462.347	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR2	COOLING TOWER 2	595.457	4462.339	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR3	COOLING TOWER 3	595.463	4462.329	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR4	COOLING TOWER 4	595.469	4462.320	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR5	COOLING TOWER 5	595.475	4462.310	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB1	BATTERY 1 UNDERFIRING	595.865	4461.841	68.58	231	2.44	7.60	526.30	3.2722	Yes	14.332
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB2	BATTERY 2 UNDERFIRING	595.858	4461.849	68.58	231	2.44	7.71	534.10	4.9274	Yes	21.582
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB3	BATTERY 3 UNDERFIRING	595.742	4461.989	68.58	231	2.44	7.36	539.00	3.0016	Yes	13.147
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB7	BATTERY 7 UNDERFIRING	595.899	4461.871	68.58	231	2.59	7.58	563.00	3.0817	Yes	13.498
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB8	BATTERY 8 UNDERFIRING	595.892	4461.878	68.58	231	2.59	7.66	561.90	2.9519	Yes	12.929
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB9	BATTERY 9 UNDERFIRING	595.775	4462.019	68.58	231	2.59	6.72	560.80	2.2221	Yes	9.733
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB13	BATTERY 13 UNDERFIRING	595.392	4462.162	68.60	231	2.60	6.90	546.30	2.0308	Yes	8.895
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB14	BATTERY 14 UNDERFIRING	595.386	4462.173	68.60	231	2.60	6.90	546.30	2.0051	Yes	8.782
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB15	BATTERY 15 UNDERFIRING	595.263	4462.315	68.60	231	2.60	6.90	546.30	1.7929	Yes	7.853
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB19	BATTERY 19 UNDERFIRING	595.273	4462.117	76.20	231	3.80	6.40	555.70	5.0380	Yes	22.066
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB20	BATTERY 20 UNDERFIRING	595.258	4462.134	76.20	231	3.80	5.90	542.40	4.0003	Yes	17.521
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMBB	BATTERY B UNDERFIRING	595.475	4462.405	96.00	231	5.50	3.80	491.90	5.4130	Yes	23.709
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	MOBL	VEHICLE & TUG EXHAUST	595.493	4462.083	8.84	231	0.40	23.84	295.22	4.0411	No	17.700
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PEC1	PEC BAGHOUSE 1-3	595.848	4461.870	24.99	231	1.22	7.14	394.10	0.4455	Yes	1.951
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PEC7	PEC BAGHOUSE 7-9	595.856	4461.879	24.99	231	1.22	7.14	394.10	0.4715	Yes	2.065
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PEC13	PEC BAGHOUSE 13-15	595.299	4462.223	25.00	231	0.90	17.00	321.00	0.5995	Yes	2.626
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PEC19	PEC BAGHOUSE 19-20	595.294	4462.218	25.00	231	0.90	15.60	314.00	0.6520	Yes	2.856
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PECB	PEC BAGHOUSE B	595.404	4462.447	15.70	231	1.20	13.80	310.00	2.1690	Yes	9.500
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCH1	QUENCH TOWER 1	595.956	4461.738	30.50	231	3.20	3.60	350.00	73.1800	Yes	320.528
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCH3	QUENCH TOWER 3	595.991	4461.777	30.50	231	3.20	3.60	350.00	71.9800	Yes	315.272
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCH5	QUENCH TOWER 5	595.494	4462.071	30.50	231	5.20	3.60	350.00	87.9000	Yes	385.002
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCH7	QUENCH TOWER 7	595.448	4462.040	37.20	231	8.80	3.60	350.00	94.1800	Yes	412.508
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCHB	QUENCH TOWER B	595.452	4462.373	41.10	231	9.60	3.60	350.00	77.3900	Yes	338.968
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCOT	SCOT STACK	595.571	4462.034	46.02	231	1.20	17.40	638.00	0.7763	No	3.400
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN3	SCREENING 3	595.720	4462.046	42.00	231	1.29	16.30	288.50	0.1556	Yes	0.682
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	WWT	WASTEWTR TREATMNT/FLARE	595.271	4462.517	8.00	231	1.10	608.00	1325.00	0.0016	No	0.007
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT1	BATTERIES 1-3 FUGITIVES	595.827	4461.861	8.50	231	--	6.10	1255.00	6.8949	No	30.200
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT7	BATTERIES 7-9 FUGITIVES	595.885	4461.913	8.50	231	--	6.10	1255.00	6.6734	No	29.229

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT13	BATTERIES 13-15 FUGITIVES	595.370	4462.219	8.80	231	--	6.10	1255.00	7.4066	No	32.441
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT19	BATTERIES 19-20 FUGITIVES	595.328	4462.152	10.50	231	--	6.10	1255.00	8.5201	No	37.318
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BBATT	B BATTERY FUGITIVES	595.530	4462.307	15.10	231	--	6.10	1255.00	3.9273	No	17.202
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL1	BALL MILL 1-3	595.840	4461.835	24.99	231	--	--	--	0.0691	No	0.303
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL7	BALL MILL 7-9	595.897	4461.877	24.99	231	--	--	--	0.0770	No	0.337
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL13	BALL MILL 13-15	595.339	4462.245	24.99	231	--	--	--	0.1033	No	0.452
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL19	BALL MILL 19-20	595.323	4462.165	24.99	231	--	--	--	0.1069	No	0.468
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALLB	BALL MILL B	595.580	4462.230	24.99	231	--	--	--	0.1385	No	0.607
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BLAST	BLASTING	595.488	4462.169	7.55	230	--	--	--	0.0137	No	0.060
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR1	COAL TRANSFER PART1	595.007	4462.713	7.62	231	--	--	--	0.0111	No	0.049
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR2	COAL TRANSFER PART2	595.973	4461.951	7.62	231	--	--	--	0.0111	No	0.049
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR3	COAL TRANSFER PART3	595.490	4462.332	7.62	231	--	--	--	0.0111	No	0.049
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR4	COAL TRANSFER PART4	595.249	4462.523	7.62	231	--	--	--	0.0111	No	0.049
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR5	COAL TRANSFER PART5	595.732	4462.142	7.62	231	--	--	--	0.0111	No	0.049
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CONVEY	CONVEYING/HANDLING	593.994	4463.352	2.23	231	--	--	--	0.0277	No	0.121
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	LOADB	LOADOUT B	595.720	4462.046	17.10	231	--	--	--	0.0273	No	0.120
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P1	PRIM PULVERIZERS PART1	595.920	4462.007	18.29	230	--	--	--	0.0052	No	0.023
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P2	PRIM PULVERIZERS PART2	595.929	4461.998	18.29	230	--	--	--	0.0052	No	0.023
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P3	PRIM PULVERIZERS PART3	595.937	4461.990	18.29	230	--	--	--	0.0052	No	0.023
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P4	PRIM PULVERIZERS PART4	595.946	4461.981	18.29	230	--	--	--	0.0052	No	0.023
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P1	SEC PULVERIZERS PART1	595.557	4462.388	19.80	231	--	--	--	0.0060	No	0.026
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P2	SEC PULVERIZERS PART2	595.566	4462.379	19.80	231	--	--	--	0.0060	No	0.026
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P3	SEC PULVERIZERS PART3	595.576	4462.370	19.80	231	--	--	--	0.0060	No	0.026
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P4	SEC PULVERIZERS PART4	595.585	4462.360	19.80	231	--	--	--	0.0060	No	0.026
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD1	INDUSTRIAL ROADS 1	595.696	4460.809	1.50	230	--	--	--	0.0556	No	0.244
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD2	INDUSTRIAL ROADS 2	596.090	4461.428	1.70	230	--	--	--	0.0556	No	0.244
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD3	INDUSTRIAL ROADS 3	595.583	4462.051	1.50	230	--	--	--	0.0556	No	0.244
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN1	SCREENING 1	595.766	4461.982	8.50	231	--	--	--	0.2988	No	1.309
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN2	SCREENING 2	595.234	4462.311	8.50	231	--	--	--	0.3745	No	1.640
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA1	UNLOADING 1	595.818	4462.154	12.19	231	--	--	--	0.0216	No	0.095
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA2	UNLOADING 2	595.380	4462.554	8.99	231	--	--	--	0.0175	No	0.077
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER1	COKE STORAGE/EROS PART1	594.986	4461.696	13.72	232	--	--	--	1.28E-06	No	5.61E-06
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER2	COKE STORAGE/EROS PART2	594.986	4461.696	13.72	232	--	--	--	1.28E-06	No	5.61E-06
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER3	COKE STORAGE/EROS PART3	594.986	4461.696	13.72	232	--	--	--	1.28E-06	No	5.61E-06
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER4	COKE STORAGE/EROS PART4	594.986	4461.696	13.72	232	--	--	--	1.28E-06	No	5.61E-06
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER5	COKE STORAGE/EROS PART5	594.986	4461.696	13.72	232	--	--	--	1.28E-06	No	5.61E-06
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR1	COKE TRANSFER PART1	594.647	4461.567	13.72	232	--	--	--	5.76E-06	No	2.52E-05
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR2	COKE TRANSFER PART2	594.647	4461.567	13.72	232	--	--	--	5.76E-06	No	2.52E-05
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR3	COKE TRANSFER PART3	594.647	4461.567	13.72	232	--	--	--	5.76E-06	No	2.52E-05
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR4	COKE TRANSFER PART4	594.647	4461.567	13.72	232	--	--	--	5.76E-06	No	2.52E-05
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR5	COKE TRANSFER PART5	594.647	4461.567	13.72	232	--	--	--	5.76E-06	No	2.52E-05
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER1	COAL STORAGE/EROS PART1	594.322	4462.945	15.24	232	--	--	--	5.22E-09	No	2.29E-08
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER2	COAL STORAGE/EROS PART2	594.322	4462.945	15.24	232	--	--	--	5.22E-09	No	2.29E-08
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER3	COAL STORAGE/EROS PART3	594.322	4462.945	15.24	232	--	--	--	5.22E-09	No	2.29E-08
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER4	COAL STORAGE/EROS PART4	594.322	4462.945	15.24	232	--	--	--	5.22E-09	No	2.29E-08
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV1	BOILER #1	593.084	4465.172	21.03	287	1.10	10.24	513.56	0.4820	Yes	2.111
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV2	BOILER #2	593.105	4465.517	22.86	287	1.30	7.99	513.56	0.4260	Yes	1.866
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV3	BOILER #3-4	593.316	4465.586	29.87	287	3.10	9.69	644.11	0.2310	Yes	1.012
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV4	80 INCH MILL REHEAT	593.151	4465.906	21.33	287	1.98	29.44	508.00	6.3439	Yes	27.787
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV5	84 INCH PICKLING LINE	593.291	4465.575	35.05	287	1.37	15.31	327.44	0.6393	Yes	2.800
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV6	COLD REDUCTION MILL	593.291	4465.575	26.21	287	1.34	5.39	382.44	4.1210	Yes	18.050

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV7	COLD REDUCTION MILL	593.192	4465.385	26.21	287	1.34	5.39	295.22	0.8219	No	3.600
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV8	#1 GALV. LINE PREHEAT	593.294	4465.375	25.60	287	1.42	0.03	944.11	0.1541	Yes	0.675
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV9	#2 GALV. LINE PREHEAT	593.294	4465.375	26.82	287	1.37	0.03	944.11	0.1235	Yes	0.541
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV10	HPH ANNEALING FCES	593.291	4465.575	16.76	287	0.76	2.44	644.11	0.4401	Yes	1.928
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV11	OPEN COIL ANNEALING	593.227	4465.241	20.12	287	3.00	0.40	478.00	0.2075	Yes	0.909
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV12	CONTINUOUS ANNEALING	593.202	4465.895	25.91	287	1.10	4.21	478.00	0.0923	Yes	0.404
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV13	TERNE LINE, NATURAL GAS	593.291	4465.575	33.83	287	1.34	10.52	473.00	0.0130	Yes	0.057
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV14	TERNE LINE PROCESS	593.291	4465.575	23.77	287	1.37	8.29	404.67	0.5434	Yes	2.380
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV15	PAVED ROADS	593.192	4465.385	36.88	287	1.19	5.58	295.22	0.0008	No	0.004
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV16	UNPAVED ROADS	593.192	4465.385	40.23	287	1.65	4.97	295.22	0.0147	No	0.064
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV17	MISCELLANEOUS NATURAL GAS	593.192	4465.385	15.24	287	0.82	7.86	295.22	0.2640	No	1.156
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV18	64 INCH PICKLING LINE	593.291	4465.575	15.54	287	0.76	12.40	328.00	0.4886	Yes	2.140
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV19	COOLING TOWER	593.192	4465.385	9.14	287	4.33	9.05	295.22	0.4680	No	2.050
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET1	RILEY BOILER #1	597.066	4471.939	49.98	233	4.20	12.50	509.11	36.2013	Yes	158.562
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET2	RILEY BOILER #2	597.049	4471.961	49.98	233	4.21	12.53	509.11	77.7208	Yes	340.417
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET3	BF STOVE #1	597.184	4472.007	53.03	233	3.30	9.51	492.44	27.1990	Yes	119.132
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET4	BF CASTHOUSE ROOF MONS	596.693	4471.879	39.62	233	2.32	9.27	295.22	2.9848	No	13.074
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET5	BF STOVE #3	597.022	4472.039	56.99	233	2.59	15.21	492.44	24.3749	Yes	106.762
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET6	BF CASTHOUSE BAGHOUSES	597.134	4471.951	21.03	233	3.51	14.00	290.22	3.8493	No	16.860
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET7	BFG FLARE	597.090	4472.051	53.03	233	3.30	9.51	493.00	2.0157	Yes	8.829
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET8	BF SLAG HANDLING	596.693	4471.879	31.09	233	1.95	9.33	295.22	0.0134	No	0.059
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET9	HM MIXER & DESULF BAGHSE	596.493	4472.276	14.63	233	0.73	11.01	320.22	1.2238	No	5.360
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET10	BOP SECONDARY BAGHOUSE	596.741	4472.113	27.13	233	1.70	17.71	316.89	0.5457	No	2.390
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET11	BOP VENTURI SCRUBBER F	596.595	4472.277	54.86	233	3.05	10.36	314.67	33.8075	No	148.077
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET12	LADLE METALLURGY BAGHOUSE	596.738	4472.276	15.24	233	0.76	17.83	319.11	0.0594	No	0.260
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET13	FLUX UNLOADING BAGHOUSE	597.090	4472.050	7.92	233	2.25	0.79	292.44	0.0327	No	0.143
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET14	FLUX TRANSFER TOWER	597.191	4472.050	3.05	233	2.25	1.11	292.44	0.0165	No	0.072
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET15	FLUX FINAL TRANSFER #1	597.293	4472.050	52.73	233	2.57	1.33	292.44	0.0506	No	0.222
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET16	FLUX FINAL TRANSFER #2	597.090	4472.050	52.73	233	2.94	0.66	292.44	0.0506	No	0.222
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET17	BOP BUILDING FUGITIVES	597.092	4471.884	29.26	233	2.01	11.03	447.44	1.5240	No	6.675
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET18	BOP SLAG PROCESSING	596.693	4471.879	36.27	233	2.38	6.00	295.22	0.0130	No	0.057
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET19	BOP SLAG PROCESSING	596.693	4471.879	8.84	233	1.01	16.34	295.22	0.0046	No	0.020
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET20	BOP PROCESS FUEL	597.092	4471.884	41.76	233	2.04	9.97	501.89	0.4171	No	1.827
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET21	BOP PROCESS FUEL	597.092	4471.884	15.24	233	0.82	7.86	462.44	0.2204	No	0.965
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET22	PAVED ROADS	596.693	4471.879	36.88	233	1.19	5.58	295.22	0.0048	No	0.021
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET23	UNPAVED ROADS	596.693	4471.879	40.23	233	1.65	4.97	295.22	0.0754	No	0.330
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET24	STORAGE PILES	596.693	4471.879	45.72	233	2.26	8.63	295.22	0.0799	No	0.350
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET25	CASTER/LMF	596.693	4471.879	73.15	233	2.38	3.35	295.22	0.0193	No	0.085
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET26	CASTER/LMF	596.693	4471.879	16.15	233	0.91	10.30	295.22	0.0781	No	0.342
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET27	BF SLIPS	596.693	4471.879	49.38	233	2.41	10.30	295.22	0.0568	No	0.249
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET28	BF FUME SUPPRESSION	596.693	4471.879	41.76	233	2.04	9.97	295.22	0.0343	No	0.150
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET29	BF RAW MAT'L HANDLING	596.693	4471.879	44.50	233	2.23	8.90	295.22	0.0465	No	0.204
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET30	VACUUM DEGASSER	597.293	4472.050	29.26	233	2.01	11.03	447.44	0.0941	No	0.412
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET31	PLANT WIDE MISC COMB	596.693	4471.879	15.24	233	0.82	7.86	295.22	0.1293	No	0.566
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET32	COOLING TOWERS	596.693	4471.879	9.14	233	4.33	9.05	295.22	6.3721	No	27.910
PA	Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	VAASPN	BOILERS #1-4	594.307	4483.372	25.91	283	0.51	7.07	449.67	0.0361	No	0.158
PA	Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	VAHIGH	BOILERS #1-3	594.692	4481.079	18.90	307	0.91	5.00	533.00	0.0449	No	0.197
PA	Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	VAOAK1	BOILERS #1-3	588.032	4477.867	45.72	344	2.60	4.69	421.89	0.0667	No	0.292
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL1	BOILER NO. 2	574.797	4484.284	10.06	213	0.91	7.31	505.22	0.0908	No	0.398
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL2	MEAL LOADOUT	574.797	4484.284	10.36	213	0.27	5.70	295.22	0.0228	No	0.100
PA	Allegheny	VORTEC U-PARC PROCESS TEST FACILITY	VORTC1	VORTEC PILOT TEST FACILTY	598.791	4488.504	21.33	283	0.40	9.94	349.67	0.0001	No	0.001

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	WATSON STANDARD COMPANY - NEVILLE IS	WATSN	PIGMENT HANDLING	588.250	4477.426	8.84	222	0.58	8.44	295.22	0.1322	No	0.579
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN1	HOT WATER BOILERS	593.192	4479.684	28.95	273	2.13	0.03	533.00	0.0127	No	0.056
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN2	GAS FIRED WATER HEATERS	593.396	4479.675	28.95	273	2.13	0.03	533.00	0.0008	No	0.003
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA1	BUILDING ROOF FANS	590.591	4471.781	21.33	228	1.83	0.03	294.11	0.0454	No	0.199
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA2	STACK FROM FURNACES	590.591	4471.781	24.38	228	1.22	0.03	533.00	0.0178	No	0.078
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA3	PLANT FUGITIVES	590.591	4471.781	9.45	228	0.98	10.79	295.22	0.0091	No	0.040
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO1	VIRTUAL FOR P001-P006	591.441	4472.689	18.29	226	0.03	0.03	294.11	0.0427	No	0.187
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO2	PLANT FUGITIVES	591.441	4472.689	23.77	226	1.10	7.59	295.22	0.0012	No	0.005
PA	Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	WINTHP	FUEL BURNING BOILERS	586.197	4478.179	3.05	230	1.07	6.77	521.89	0.1215	No	0.532

Additional Parameters (for volume sources)					**Initial Sigma y (m)**	**Initial Sigma z (m)**							
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	DOCK1	DOCK 1 UNLOADING	2.1	3.3							
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	DOCK2	DOCK 2 LOADING	2.1	2.6							
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	DOCK3	DOCK 3 UNLOADING	2.1	4							
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	MOBL	TRUCK EMISSIONS	2.1	2.1							
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	PILE	STORAGE PLES	11.6	5.7							
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	RAILCR	RAILCAR UNLOADING	2.1	2.1							
PA	Allegheny	MON VALLEY TRANSPORTATION CENTER	TRANBN	TRANSFER BIN	1.8	2.8							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL1	BALL MILL 1-3	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL7	BALL MILL 7-9	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL13	BALL MILL 13-15	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL19	BALL MILL 19-20	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALLB	BALL MILL B	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BLAST	BLASTING	6.37	7.02							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR1	COAL TRANSFER PART1	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR2	COAL TRANSFER PART2	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR3	COAL TRANSFER PART3	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR4	COAL TRANSFER PART4	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR5	COAL TRANSFER PART5	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CONVEY	CONVEYING/HANDLING	3.38	2.07							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	LOADB	LOADOUT B	4.70	15.90							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P1	PRIM PULVERIZERS PART1	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P2	PRIM PULVERIZERS PART2	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P3	PRIM PULVERIZERS PART3	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P4	PRIM PULVERIZERS PART4	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P1	SEC PULVERIZERS PART1	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P2	SEC PULVERIZERS PART2	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P3	SEC PULVERIZERS PART3	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P4	SEC PULVERIZERS PART4	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD1	INDUSTRIAL ROADS 1	30.70	1.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD2	INDUSTRIAL ROADS 2	30.70	1.60							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD3	INDUSTRIAL ROADS 3	69.80	1.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN1	SCREENING 1	7.12	7.91							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN2	SCREENING 2	7.12	7.91							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA1	UNLOADING 1	2.50	11.34							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA2	UNLOADING 2	2.00	8.36							
Additional Parameters (for area sources)					**Initial Sigma z (m)**	**UTMx1 (km)**	**UTMy1 (km)**	**UTMx2 (km)**	**UTMy2 (km)**	**UTMx3 (km)**	**UTMy3 (km)**	**UTMx4 (km)**	**UTMy4 (km)**
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER1	COKE STORAGE/EROS PART1	0.00	594.867	4461.713	594.917	4461.713	594.917	4461.563	594.867	4461.563
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER2	COKE STORAGE/EROS PART2	0.00	594.917	4461.763	594.967	4461.763	594.967	4461.563	594.917	4461.563
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER3	COKE STORAGE/EROS PART3	0.00	594.967	4461.813	595.017	4461.813	595.017	4461.613	594.967	4461.613
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER4	COKE STORAGE/EROS PART4	0.00	595.017	4461.663	595.167	4461.663	595.167	4461.613	595.017	4461.613
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER5	COKE STORAGE/EROS PART5	0.00	595.017	4461.863	595.217	4461.863	595.217	4461.663	595.017	4461.663
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR1	COKE TRANSFER PART1	0.00	594.317	4461.514	594.617	4461.514	594.617	4461.464	594.317	4461.464
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR2	COKE TRANSFER PART2	0.00	594.317	4461.564	594.767	4461.564	594.767	4461.514	594.317	4461.514
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR3	COKE TRANSFER PART3	0.00	594.367	4461.614	594.817	4461.614	594.817	4461.564	594.367	4461.564
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR4	COKE TRANSFER PART4	0.00	594.417	4461.664	594.867	4461.664	594.867	4461.614	594.417	4461.614
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR5	COKE TRANSFER PART5	0.00	594.667	4461.714	594.917	4461.714	594.917	4461.664	594.667	4461.664
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER1	COAL STORAGE/EROS PART1	0.00	594.018	4463.213	594.118	4463.213	594.118	4463.113	594.018	4463.113
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER2	COAL STORAGE/EROS PART2	0.00	594.118	4463.113	594.218	4463.113	594.218	4463.013	594.118	4463.013

PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER3	COAL STORAGE/EROS PART3	0.00	594.218	4463.013	594.368	4463.013	594.368	4462.913	594.218	4462.913
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER4	COAL STORAGE/EROS PART4	0.00	594.368	4462.913	594.518	4462.913	594.518	4462.763	594.368	4462.763
Additional Parameters (for buoyant line sources)					**UTMx1 (km)**	**UTMy1 (km)**	**UTMx2 (km)**	**UTMy2 (km)**	**Line Length (m)**	**Bldg Ht (m)**	**Line Width (m)**	**Bldg Width (m)**	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT1	BATTERIES 1-3 FUGITIVES	595.724	4461.977	595.920	4461.764	291.00	8.50	0.231	13.70	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT7	BATTERIES 7-9 FUGITIVES	595.780	4462.027	595.972	4461.811	291.00	8.50	0.234	13.70	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT13	BATTERIES 13-15 FUGITIVES	595.273	4462.326	595.463	4462.113	277.00	8.80	0.276	14.00	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT19	BATTERIES 19-20 FUGITIVES	595.235	4462.254	595.398	4462.066	254.00	10.50	0.280	14.00	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BBATT	B BATTERY FUGITIVES	595.498	4462.346	595.575	4462.254	118.00	15.10	0.677	13.70	
Additional Parameters (for buoyant line sources)					**Amb Temp (K)**	**Line Flow (m3/s)**	**Emis. Buoy. (m4/s3)**	**Surf. Buoy. (m4/s3)**	**TOTAL Buoy. (m4/s3)**				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT1	BATTERIES 1-3 FUGITIVES	298.00	409.92	3066	3532	6598				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT7	BATTERIES 7-9 FUGITIVES	298.00	414.72	3102	3532	6634				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT13	BATTERIES 13-15 FUGITIVES	298.00	467.04	3494	3414	6908				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT19	BATTERIES 19-20 FUGITIVES	298.00	434.39	3250	3218	6468				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BBATT	B BATTERY FUGITIVES	298.00	486.96	3643	2708	6351				

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM1	WASTE OIL BURNERS- 4 SAME	578.590	4482.180	7.31	218	0.20	0.03	294.11	0.1372	No	0.601
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM2	BOILERS,WASHER,AIR HTR, ETC	578.590	4482.180	15.24	218	0.82	7.86	295.22	0.0075	No	0.033
PA	Allegheny	ACEOMATIC RECON, LLC	ACEOM3	BOILERS,WASHER,AIR HTR, ETC	578.590	4482.180	10.67	218	0.40	11.13	295.22	0.0025	No	0.011
PA	Allegheny	AKJ INDUSTRIES	AKJ1	SLUDGE PROCESSING	595.492	4462.463	6.40	230	0.10	1.37	333.00	0.0034	No	0.015
PA	Allegheny	AKJ INDUSTRIES	AKJ2	SLUDGE PROCESSING	595.989	4461.948	6.40	230	0.10	1.37	333.00	0.0034	No	0.015
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA1	INTEGRATED TABULAR	566.329	4491.287	12.19	214	1.52	7.31	294.11	0.1672	No	0.732
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA2	INTEGRATED TABULAR	566.329	4491.287	23.47	214	1.14	20.73	294.11	0.1894	No	0.830
PA	Allegheny	ALCOA WORLD CHEMICALS	ALCOA3	BALL MILL, PACKAGING, OTHER	566.329	4491.287	23.47	214	0.71	20.12	294.11	0.0592	No	0.260
PA	Allegheny	ALLDERDICE SCHOOL	ALLDR1	BOILERS	591.705	4475.991	25.91	325	1.83	0.03	533.00	0.0170	No	0.074
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT1	ROTARY DRUM MIX/DRYER NG	586.772	4476.132	7.92	230	1.20	15.51	450.22	0.5590	No	2.449
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT2	LIMESTONE COARSE	586.896	4476.377	12.50	230	0.58	14.84	295.22	0.1619	No	0.709
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT3	COLD AGGREGATE HANDLING	586.896	4476.377	10.36	230	1.25	14.69	295.22	1.0778	No	4.721
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT4	HIGHLIFT	586.896	4476.377	3.96	230	0.03	5.58	295.22	0.0513	No	0.225
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT5	CARBONATE AGGREGATES	586.896	4476.377	9.75	230	1.19	14.20	295.22	1.7999	No	7.884
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT6	ASPHALT HEATER	586.896	4476.377	42.37	230	0.40	2.83	295.22	0.0005	No	0.002
PA	Allegheny	ALLEGHENY ASPHALT MFG. INC.	ASPHT7	ROADWAY FUGITIVE DUST	586.896	4476.377	11.58	230	0.61	13.17	295.22	0.0295	No	0.129
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP1	HIGH TEMP WATER GEN. 1 NG	563.069	4483.366	11.28	341	0.46	0.30	338.56	0.0125	No	0.055
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP10	UREA/SAND DOME	563.088	4483.177	10.67	341	1.07	9.48	538.56	0.1102	No	0.483
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP11	FUGITIVES	563.069	4483.366	11.89	341	0.43	8.29	295.22	0.0016	No	0.007
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP2	125 HOOKSTOWN GRADE ROAD	567.823	4481.509	5.49	341	0.15	0.30	338.56	0.0004	No	0.002
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP3	TWA HANGARS	565.249	4483.173	7.62	341	0.61	0.30	338.56	0.0229	No	0.100
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP4	CARGO RD. FIRE PUMPHOUSE	564.720	4483.580	4.57	341	0.30	0.30	338.56	0.0016	No	0.007
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP5	MAINTENANCE BUILDING	565.652	4483.599	6.10	341	0.64	0.30	338.56	0.0044	No	0.019
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP6	TWA CARGO BUILDING	565.106	4482.972	6.10	341	0.15	0.30	338.56	0.0024	No	0.010
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP7	STORE/WEST DOCK	565.898	4483.579	7.92	341	0.15	0.30	338.56	0.0038	No	0.017
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP8	COMMISSARY	565.720	4483.577	6.71	341	0.85	0.30	338.56	0.0012	No	0.005
PA	Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	AIRP9	WASTE DISPOSAL BUILDING	565.255	4483.407	4.88	341	0.09	0.79	338.56	0.0009	No	0.004
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS1	LIME MIXING	581.090	4480.675	23.77	222	1.83	14.72	294.11	0.1777	No	0.778
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS2	FLUIDIZED BED INCIN. #1	581.027	4480.985	91.44	222	2.41	1.49	316.33	0.3159	No	1.384
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS3	KEWANEE BOILER	581.095	4480.975	24.38	222	0.91	3.20	699.67	0.0184	No	0.081
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS4	PLANT ROADS AND VEHICLES	581.095	4480.975	6.10	222	0.70	1.68	295.22	0.0045	No	0.020
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS5	POT. PERMANGANATE SILO-2	581.095	4480.975	11.28	222	0.52	13.14	295.22	0.0031	No	0.014
PA	Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOS6	ASH SILOS	581.095	4480.975	24.08	222	0.79	12.65	295.22	0.0024	No	0.010
PA	Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	AESPRG	UNITS 1-2, 3-5	604.393	4488.880	22.86	227	2.74	20.24	708.56	0.8708	No	3.814
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD1	EIF SCRAP PREHEATERS	608.490	4497.177	28.04	236	1.07	11.89	366.33	1.4967	No	6.555
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD10	EAF MELTING	607.694	4496.077	25.60	236	5.18	1.90	366.33	2.7319	No	11.966
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD11	EAF CANOPY BAGHOUSE	608.449	4497.076	18.90	236	3.10	3.20	366.33	1.3500	No	5.913
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD12	EAF CANOPY BAGHOUSE	607.494	4496.985	24.99	236	2.44	11.73	295.22	3.8890	No	17.034
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD13	EAF MELTING	607.694	4496.077	22.86	236	4.27	2.77	366.33	0.6671	No	2.922
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD14	EAF MELTING	607.694	4496.077	22.86	236	4.27	1.83	366.33	0.6671	No	2.922
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD15	AOD	608.448	4497.176	22.86	236	3.10	3.41	366.33	8.6830	No	38.032
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD16	AOD	607.494	4496.985	29.26	236	2.01	11.03	295.22	0.9882	No	4.328
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD18	CONTINUOUS CASTER	607.494	4496.985	30.78	236	2.96	10.61	295.22	0.2853	No	1.249
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD19	LOFTUS SOAK PITS	607.292	4495.783	38.10	236	1.22	7.71	810.78	0.1098	No	0.481
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD2	ELECTRIC INDUCTION FCES	608.388	4497.175	20.12	236	0.79	17.37	324.67	1.5932	No	6.978
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD20	LOFTUS SOAK PITS	607.192	4495.681	38.10	236	1.83	3.41	810.78	0.2534	No	1.110
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD21	LOFTUS SOAK PITS	607.192	4495.681	38.10	236	1.83	2.56	810.78	0.0817	No	0.358
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD22	A/M SOAK PITS	607.393	4495.784	38.10	236	1.22	4.75	810.78	0.0338	No	0.148
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD23	A/M SOAK PITS	607.393	4495.784	38.10	236	1.83	2.10	810.78	0.0338	No	0.148
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD24	SALEM REHEAT FURNACE	607.393	4495.784	38.10	236	2.44	11.97	810.78	3.8211	No	16.736

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD25	RUST REHEAT FURNACE	607.292	4495.783	38.10	236	1.52	19.98	810.78	0.6952	No	3.045
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD26	HOT STRIP UNIVERSAL MILL	607.290	4495.883	21.33	236	2.44	3.03	338.56	1.0955	No	4.798
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD27	HOT STRIP MILL FUGITIVES	607.494	4496.985	26.21	236	1.77	8.02	295.22	0.1095	No	0.480
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD28	#1 A&P LINE, SHOTBLAST	607.594	4495.976	3.05	236	0.91	12.94	294.11	1.0994	No	4.816
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD29	#2 A&P LINE, KOLENE DESC.	606.595	4495.984	16.76	236	1.31	3.90	313.56	0.2076	No	0.909
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD3	ELECTRIC INDUCTION FCES	607.494	4496.985	11.89	236	1.13	13.26	295.22	6.5527	No	28.701
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD30	#2 A&P ANNEALING FCE. NG	607.494	4496.985	33.83	236	1.34	10.52	295.22	0.0814	No	0.357
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD31	#3 B&P LINE, SHOTBLAST	607.594	4495.976	2.13	236	0.49	27.81	294.11	3.9238	No	17.186
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD32	1-3 PICKLE,ACID SCRUBBING	607.494	4496.985	22.25	236	1.22	10.39	295.22	0.5754	No	2.520
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD33	HOT BAND NORMALIZER	607.289	4495.983	2.44	236	1.83	17.26	1394.11	0.1276	No	0.559
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD34	PLATE BURNERS/TORCH CUTRS	607.296	4496.083	12.19	236	1.22	25.39	294.11	0.2966	No	1.299
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD35	SLAB GRINDERS#15,16,18-22	607.494	4496.985	19.81	236	1.65	8.75	295.22	2.6358	No	11.545
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD36	#3 DEPT. BOILER	606.690	4495.874	6.10	236	2.13	1.48	449.67	0.1858	No	0.814
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD37	MISC. SPACE HEATERS	607.494	4496.985	15.24	236	0.82	7.86	295.22	0.3557	No	1.558
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD38	SLAG HANDLING	607.494	4496.985	36.27	236	2.38	6.00	295.22	0.0383	No	0.168
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD39	MOLD SHOP COOLING TOWERS	607.494	4496.985	9.14	236	4.33	9.05	295.22	1.6723	No	7.325
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD4	HOT METAL DESULFURIZATION	608.388	4497.175	24.99	236	0.61	27.43	380.22	0.6854	No	3.002
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD40	TANDEM MILL	607.595	4495.876	12.19	236	1.22	6.07	294.11	6.9810	No	30.577
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD41	UNITED MILL	607.595	4495.876	12.19	236	1.22	6.07	294.11	2.6428	No	11.575
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD42	Z MILL	606.595	4495.984	10.67	236	0.91	7.19	294.11	1.0581	No	4.635
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD43	STORAGE SILOS	607.494	4496.985	20.73	236	0.79	13.29	295.22	0.1917	No	0.840
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD5	HOT METAL DESULFURIZATION	607.494	4496.985	25.30	236	1.58	17.65	295.22	0.2209	No	0.968
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD6	BASIC OXYGEN FCES	608.490	4497.177	45.41	236	3.05	11.32	333.00	1.8283	No	8.008
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD7	BASIC OXYGEN FCES	607.494	4496.985	97.53	236	2.38	11.16	295.22	1.6437	No	7.200
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD8	BASIC OXYGEN FCES	607.494	4496.985	49.68	236	2.71	8.81	295.22	0.0200	No	0.088
PA	Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	ALUD9	BASIC OXYGEN FCES	607.494	4496.985	43.89	236	2.35	11.40	295.22	0.0532	No	0.233
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL1	BOILER #1	606.738	4497.218	9.14	293	0.70	4.60	483.00	0.0329	No	0.144
PA	Allegheny	ALLEGHENY VALLEY HOSPITAL	ALVAL2	PAVED ROADS	606.842	4497.064	11.58	293	0.70	14.36	295.22	0.0033	No	0.014
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR1	HVAC UNITS	570.101	4486.315	15.24	225	0.82	7.86	462.44	0.0068	No	0.030
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR2	VEHICLE TRAFFIC	570.101	4486.315	12.19	225	1.62	6.49	295.22	0.0121	No	0.053
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR3	VEHICLE TRAFFIC	570.101	4486.315	8.84	225	0.40	23.84	295.22	0.0862	No	0.378
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR4	VEHICLE TRAFFIC	570.101	4486.315	7.62	225	0.30	0.03	310.78	0.0047	No	0.021
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR5	ABRASIVE BLASTING #2	570.101	4486.315	0.00	225	0.09	0.00	303.00	0.0137	No	0.060
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR6	WELDING AND CUTTING	570.101	4486.315	0.00	225	0.09	0.00	295.22	0.0002	No	0.001
PA	Allegheny	AMERICAN BRIDGE MANUFACTURING	AMRBR7	WELDING AND CUTTING	570.101	4486.315	3.05	225	0.20	4.00	295.22	0.0082	No	0.036
PA	Allegheny	AMG RESOURCES CORPORATION	AMG1	UNPAVED ROADS	574.792	4484.784	20.42	221	0.64	6.68	295.22	0.0009	No	0.004
PA	Allegheny	AMG RESOURCES CORPORATION	AMG2	UNPAVED ROADS	574.792	4484.784	3.96	221	0.03	5.58	295.22	0.0149	No	0.065
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW1	AGGREGATE GROUND HOPPER	585.195	4476.080	9.45	224	0.85	7.04	295.22	0.0600	No	0.263
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW2	AGGREGATE #57 GRAVEL	585.195	4476.080	9.14	224	0.91	7.77	295.22	0.2322	No	1.017
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW3	CEMENT SILO 1	585.195	4476.080	24.38	224	0.15	16.82	321.89	0.0167	No	0.073
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW4	CEMENT SILO 2	585.195	4476.080	17.37	224	0.41	0.03	533.00	0.0476	No	0.209
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW5	CEMENT SILO 3	585.195	4476.080	7.31	224	0.30	15.24	294.11	0.0081	No	0.036
PA	Allegheny	ARROW CONCRETE COMPANY	ARROW6	BOILER	585.195	4476.080	3.96	224	0.03	5.58	295.22	0.0282	No	0.124
PA	Allegheny	ARSENAL SCHOOL	ARSENL	BOILER	587.893	4480.375	36.57	234	1.83	0.03	533.00	0.0097	No	0.043
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN1	POLYESTER RESIN(PR) PLANT	577.693	4483.681	33.53	222	1.07	1.92	1060.78	0.0514	No	0.225
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN2	MAIN BOILER #25	577.995	4483.184	11.89	222	0.60	8.81	541.33	0.4475	No	1.960
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN3	BACKUP BOILER #26	577.693	4483.681	8.53	222	0.61	5.43	533.00	0.0328	No	0.144
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN4	HOT OIL HEATER #15	577.693	4483.681	13.72	222	3.93	10.39	295.22	0.3194	No	1.399
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN5	COOLING TOWER #39	577.693	4483.681	14.02	222	0.40	16.82	295.22	0.0118	No	0.052
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN6	ONSITE VEHICLES	577.693	4483.681	8.84	222	0.46	19.23	295.22	0.0124	No	0.055

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN7	ONSITE VEHICLES	577.693	4483.681	6.10	222	0.27	8.23	295.22	0.0006	No	0.003
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN8	ONSITE VEHICLES	577.693	4483.681	0.00	222	0.00	0.00	295.22	0.0008	No	0.004
PA	Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLN9	ROAD DUST	577.693	4483.681	11.89	222	0.88	4.72	295.22	0.0353	No	0.155
PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL1	BOILERS #1-2	591.945	4479.024	42.97	284	2.10	0.21	505.22	0.0538	No	0.236
PA	Allegheny	BAKE- LINE GROUP LLC	BAKEL2	BAKING OVENS #2-6	591.980	4478.936	18.90	284	0.80	0.91	533.00	0.0228	No	0.100
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER1	BOILER #1,NG	589.994	4500.883	15.24	232	0.82	9.54	533.00	0.0039	No	0.017
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER2	SPACE HEATERS,NG	589.994	4500.883	10.67	232	0.43	6.55	295.22	0.0019	No	0.008
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER3	ROADS AND VEHICLES	589.994	4500.883	38.71	232	1.43	7.19	295.22	0.0093	No	0.041
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER4	ROADS AND VEHICLES	589.994	4500.883	8.84	232	0.46	19.23	295.22	0.0077	No	0.034
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER5	OPEN HEAD -BAKE OVEN	589.994	4500.883	13.72	232	0.67	10.09	294.11	0.0023	No	0.010
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER6	SHOT BLAST,OPEN HEAD	589.994	4500.883	6.71	232	0.43	9.91	294.11	0.0397	No	0.174
PA	Allegheny	BAKERSTOWN CONTAINER CORPORATION	BAKER7	DRUM BURNER,OPEN HEAD	589.994	4500.883	10.36	232	3.54	2.99	416.33	0.6614	No	2.897
PA	Allegheny	BARBER SPRING	BARBR1	OUTER LINE	588.518	4481.958	16.76	230	1.22	0.03	294.11	0.1254	No	0.549
PA	Allegheny	BARBER SPRING	BARBR2	QUENCHING	588.518	4481.958	13.41	230	1.07	12.22	295.22	0.0650	No	0.285
PA	Allegheny	BARBER SPRING	BARBR3	VEHICLES	588.518	4481.958	10.67	230	0.40	11.13	295.22	0.0074	No	0.033
PA	Allegheny	BARBER SPRING	BARBR4	VEHICLES	588.518	4481.958	8.84	230	0.46	19.23	295.22	0.0111	No	0.048
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE1	BOILERS 1-2	589.114	4478.935	59.13	248	2.70	7.71	565.22	0.3333	No	1.460
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE2	BOILERS 3-7	589.125	4477.325	78.02	248	3.40	5.91	426.89	2.5605	No	11.215
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE3	COAL HNDLG INDOOR BUNKERS	589.108	4477.314	9.75	248	0.49	10.70	295.22	0.0020	No	0.009
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE4	ASH SILO, 150 TON CAPAC.	589.108	4477.314	16.46	248	0.46	9.54	295.22	0.0306	No	0.134
PA	Allegheny	BELLEFIELD BOILER PLANT	BELLE5	EMERG #2 FUEL OIL GEN B	589.108	4477.314	9.14	248	0.58	12.71	295.22	0.0022	No	0.010
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS1	BOILER #1	593.493	4468.349	8.84	366	0.51	10.24	401.89	0.0076	No	0.033
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS2	BOILER #2	593.520	4468.331	9.14	366	0.70	6.49	433.00	0.0083	No	0.036
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTS3	BOILER #3-4	593.493	4468.349	8.84	366	0.61	6.55	443.00	0.0178	No	0.078
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSD	DIESEL GENERATOR TESTING	593.493	4468.349	3.66	345	0.35	35.05	710.78	0.0025	No	0.011
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSR	ROADS & VEHICLES	593.493	4468.349	15.85	345	0.67	7.10	295.22	0.0484	No	0.212
PA	Allegheny	BETTIS ATOMIC POWER LABORATORY	BETTSV	VAPOR HOT WATER HEATER-NG	593.520	4468.331	21.03	345	1.40	19.90	644.11	0.0090	No	0.039
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI1	ENCLOSED GROUND FLARE	561.496	4477.780	18.29	335	3.66	0.67	1144.11	1.8655	No	8.171
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI2	PORTABLE SCREENING PLANT	561.497	4477.680	11.89	335	0.70	15.12	295.22	0.0130	No	0.057
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI3	OPERATION / CONSTRUCTION	561.497	4477.680	4.27	335	0.06	11.64	295.22	2.4622	No	10.785
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI4	UNPAVED ROAD DUST EMISSIN	561.497	4477.680	65.53	335	0.94	2.80	295.22	0.3283	No	1.438
PA	Allegheny	BFI - IMPERIAL LANDFILL	BFI5	DEDICATED DIESEL EMISSION	561.497	4477.680	8.84	335	0.40	23.84	295.22	0.9282	No	4.065
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP1	GARAGE BOILER-NATURAL GAS	569.591	4486.476	10.67	226	0.43	6.55	295.22	0.0013	No	0.006
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP2	PLANT ROADS	569.591	4486.476	36.88	226	1.19	5.58	295.22	0.0004	No	0.002
PA	Allegheny	BP PRODUCTS NORTH AMERICA INC.	BP3	PLANT ROADS	569.591	4486.476	12.19	226	1.62	6.49	295.22	0.0002	No	0.001
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR1	BRIQUETTING SYSTEM BOP	597.433	4471.800	14.63	230	0.76	15.00	295.22	0.0828	No	0.363
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR2	BRIQUETTING BLAST FURNACE	597.433	4471.800	11.89	230	0.90	16.79	366.89	0.0484	No	0.212
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR3	BRIQUETTING BLAST FURNACE	597.433	4471.800	24.08	230	2.04	21.61	295.22	0.0034	No	0.015
PA	Allegheny	BRADDOCK RECOVERY, INC.	BRADR4	BRIQUETTING BLAST FURNACE	597.433	4471.800	18.59	230	0.67	15.67	295.22	0.2279	No	0.998
PA	Allegheny	CALGON CARBON CORPORATION	CALG1	CARBON REACTIVATION	578.124	4482.975	24.08	220	1.10	18.29	491.33	0.0698	No	0.306
PA	Allegheny	CALGON CARBON CORPORATION	CALG10	SCREENING	577.997	4482.985	14.93	220	0.61	20.73	293.00	0.1883	No	0.825
PA	Allegheny	CALGON CARBON CORPORATION	CALG2	CARBON REACTIVATION	577.997	4482.985	18.90	220	0.76	1.62	421.89	0.0243	No	0.106
PA	Allegheny	CALGON CARBON CORPORATION	CALG3	WHETLERITE - PLANT #1	577.997	4482.985	12.19	220	0.61	4.82	327.44	0.2642	No	1.157
PA	Allegheny	CALGON CARBON CORPORATION	CALG4	WHETLERITE - PLANT #1	577.997	4482.985	15.24	220	0.61	2.13	394.11	0.0131	No	0.057
PA	Allegheny	CALGON CARBON CORPORATION	CALG5	IMPREGNATED PRODUCTS	577.997	4482.985	12.19	220	0.41	3.66	394.11	0.0094	No	0.041
PA	Allegheny	CALGON CARBON CORPORATION	CALG6	IMPREGNATED PRODUCTS	578.115	4482.986	34.14	220	0.60	22.31	426.33	0.0182	No	0.080
PA	Allegheny	CALGON CARBON CORPORATION	CALG7	PELLETS	578.141	4482.975	18.90	220	0.80	11.31	1326.89	0.3006	No	1.317
PA	Allegheny	CALGON CARBON CORPORATION	CALG8	RAYMOND MILL PULVERIZER	577.997	4482.985	13.41	220	0.30	19.51	294.11	0.0577	No	0.253
PA	Allegheny	CALGON CARBON CORPORATION	CALG9	COOPERITE	577.997	4482.985	21.94	220	0.76	13.72	345.78	0.0243	No	0.106
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL1	STOCKPILES ROCK SALT	579.492	4481.879	8.84	221	1.04	16.31	295.22	0.2788	No	1.221

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL2	ROCK SALT PROCESSING LINE	579.492	4481.879	12.19	221	0.30	9.05	293.00	0.0056	No	0.025
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL3	ROCK SALT PROCESSING LINE	579.492	4481.879	3.96	221	0.03	5.58	295.22	0.0141	No	0.062
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL4	OFF-LOADING ROCK SALT	579.492	4481.879	12.50	220	0.58	14.84	295.22	0.0297	No	0.130
PA	Allegheny	CARGILL, INC. - SALT DIVISION	CARGL5	OFF-LOADING ROCK SALT	579.492	4481.879	8.53	221	1.01	15.97	295.22	0.0019	No	0.008
PA	Allegheny	CARRICK SCHOOL	CARRK	GAS FIRED HW BOILERS	585.795	4471.780	14.02	371	1.37	0.03	533.00	0.0111	No	0.049
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC1	KEELER BOILERS	586.985	4462.091	46.02	333	2.10	5.09	449.67	0.0242	No	0.106
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC2	ROAD SALT STOCKPILES	586.891	4462.179	18.59	333	1.43	10.15	295.22	0.0155	No	0.068
PA	Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	CDC3	PARTS WASHER & OTHER FUG.	586.891	4462.179	8.84	333	0.40	23.84	295.22	0.0337	No	0.148
PA	Allegheny	CENTRAL FOOD KITCHEN	CENTF	GAS FIRED BOILERS	586.092	4476.279	14.63	222	0.84	0.03	533.00	0.0231	No	0.101
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB1	MCGILL ENCLOSED LFG FLARE	602.297	4473.674	9.14	305	3.38	7.38	1171.89	0.3474	No	1.522
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB2	COVER-EXCAV.&REPLACEMENT	602.297	4473.674	21.94	305	1.62	15.39	295.22	0.8928	No	3.910
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB3	COVER-EXCAV.&REPLACEMENT	602.297	4473.674	19.20	305	1.62	15.39	295.22	0.1303	No	0.571
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB4	ROADS	602.297	4473.674	1.83	305	0.09	0.67	295.22	2.5852	No	11.323
PA	Allegheny	CHAMBERS DEVELOPMENT CO., INC.	CHAMB5	VEHICLES	602.297	4473.674	8.84	305	0.40	23.84	295.22	0.6779	No	2.969
PA	Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	CHILDR	BOILERS	587.596	4478.184	19.81	295	1.22	6.80	429.67	0.1263	No	0.553
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG1	ASPHALT PLANT	593.696	4458.275	4.88	230	1.50	5.61	394.11	0.0002	No	0.001
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG2	ASPHALT PLANT	593.696	4458.275	10.36	230	1.25	14.69	295.22	0.2806	No	1.229
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG3	ASPHALT PLANT	593.696	4458.275	10.06	230	0.98	13.96	295.22	0.0040	No	0.017
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG4	BARGE UNLOADING OPERATION	593.696	4458.275	12.50	230	0.58	14.84	295.22	1.3410	No	5.874
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG5	BARGE UNLOADING OPERATION	593.696	4458.275	11.58	230	0.61	13.17	295.22	0.0516	No	0.226
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG6	STG.PILE#4 HWY SALT #1	593.696	4458.275	12.50	230	0.61	16.06	295.22	0.0276	No	0.121
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG7	PAVED ROADS	593.696	4458.275	36.88	230	1.19	5.58	295.22	0.0006	No	0.003
PA	Allegheny	CLAIRTON SLAG, INC.	SLAG8	DEDICATED VEHICLE EMISSIN	593.696	4458.275	8.84	230	0.40	23.84	295.22	0.2827	No	1.238
PA	Allegheny	CONNELLEY SCHOOL	CONNLY	GAS FIRED BOILERS # 1-3	584.095	4478.777	28.35	286	2.80	0.03	533.00	0.0224	No	0.098
PA	Allegheny	CP INDUSTRIES	CP1	#3 AUTOMATIC GRINDER	597.542	4465.576	7.62	226	0.58	4.48	283.00	0.1554	Yes	0.681
PA	Allegheny	CP INDUSTRIES	CP2	O.D. SHOT BLAST	597.542	4465.576	7.62	226	0.58	4.48	294.11	0.1597	Yes	0.700
PA	Allegheny	CP INDUSTRIES	CP3	"A" FURNACE	597.542	4465.576	19.81	226	1.13	3.14	810.78	0.0078	Yes	0.034
PA	Allegheny	CP INDUSTRIES	CP4	"B" FURNACE	597.542	4465.576	19.81	226	1.13	4.45	1144.11	0.0117	Yes	0.051
PA	Allegheny	CP INDUSTRIES	CP5	HOLCROFT FURNACE	597.542	4465.576	15.24	226	0.82	4.42	1144.11	0.0082	Yes	0.036
PA	Allegheny	CREIGHTON STATION	CREIGH	ENGINE #1-2	603.436	4493.164	6.10	226	0.46	0.03	588.56	0.0559	No	0.245
PA	Allegheny	DICE COMPRESSOR STATION	DICE1	NG COMPRESSOR #1-400 HP	609.895	4479.877	4.57	295	0.30	19.41	488.56	0.0290	No	0.127
PA	Allegheny	DICE COMPRESSOR STATION	DICE2	NG COMPRESSOR #2 - 600 HP	609.895	4479.877	4.57	295	0.30	29.11	488.56	0.1066	No	0.467
PA	Allegheny	DICE COMPRESSOR STATION	DICE3	NG HEATING BOILER	609.895	4479.877	5.49	295	0.30	0.03	533.00	0.0019	No	0.008
PA	Allegheny	DICE COMPRESSOR STATION	DICE4	INDIRECT PIPELINE HEATER	609.895	4479.877	5.49	295	0.51	0.03	533.00	0.0005	No	0.002
PA	Allegheny	DLM FOODS	DLM1	BOILER #1-2, COAL	585.673	4478.795	75.89	229	3.10	6.40	471.89	2.1034	No	9.213
PA	Allegheny	DLM FOODS	DLM2	BOILER #3, COAL	585.698	4478.817	75.89	229	3.10	3.41	394.11	0.5437	No	2.382
PA	Allegheny	DLM FOODS	DLM3	BULK STARCH SILO	585.997	4478.576	22.25	229	2.26	10.39	295.22	0.9267	No	4.059
PA	Allegheny	DLM FOODS	DLM4	COAL UNLOADING	585.997	4478.576	20.42	229	1.52	14.17	295.22	0.0118	No	0.052
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ1	EMERG. GENERATORS NAT.GAS	585.391	4476.682	8.84	253	0.46	19.23	295.22	0.0411	No	0.180
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ2	EMERG. GENERATORS NAT.GAS	585.391	4476.682	7.92	253	0.34	23.35	295.22	0.0026	No	0.012
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ3	JOHNSTON BOILER	585.391	4476.682	24.99	253	1.83	0.96	455.22	0.0422	No	0.185
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ4	MISC. BOILERS	585.391	4476.682	19.81	253	1.13	8.20	295.22	0.0075	No	0.033
PA	Allegheny	DUQUESNE UNIVERSITY	DUQ5	GAS TURBINE GENERATOR	585.400	4476.649	46.33	253	1.07	2.82	449.67	0.3463	No	1.517
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA1	P03 EXTRUD'D POLY (XTEC)	597.994	4464.580	6.40	227	0.38	21.49	293.00	0.0812	Yes	0.356
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA2	P03 EXTRUD'D POLY (XTEC)	598.002	4464.558	2.13	227	0.15	0.05	449.67	0.0004	Yes	0.002
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA3	TRAVEL EMISSIONS	597.994	4464.580	3.96	227	0.03	5.58	295.22	0.0975	No	0.427
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA4	TRAVEL EMISSIONS	597.994	4464.580	10.97	227	0.76	5.85	295.22	2.0460	No	8.961
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA5	FUSION BOND PROCESS OVEN	597.994	4464.580	9.75	227	0.52	2.68	921.89	0.0084	Yes	0.037
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA6	FUSION BOND WB-1 BH STACK	597.994	4464.580	7.31	227	0.58	12.59	295.22	0.0889	Yes	0.389
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA7	FUSION BOND WB-2 BH STACK	597.994	4464.580	4.88	227	0.38	21.49	294.11	0.0979	Yes	0.429

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	DURA - BOND INDUSTRIES INC.	DURA8	FUSION BOND DRYER OVEN	597.994	4464.580	9.75	227	0.52	4.27	921.89	0.0055	Yes	0.024
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST1	V-8 AREA	593.093	4457.579	4.88	225	0.41	28.80	293.00	0.8208	No	3.595
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST10	BOILERS 3-4	593.093	4457.579	14.02	225	0.69	23.50	625.78	0.2387	No	1.045
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST11	NO. 5 TRANE BOILER, WDLF	593.101	4457.590	21.94	225	0.90	9.51	503.00	0.3238	No	1.418
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST12	MP-POLY	593.093	4457.579	9.14	225	0.15	1.55	298.00	0.0123	No	0.054
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST13	MP-POLY	593.093	4457.579	9.14	225	0.15	8.41	298.00	0.0004	No	0.002
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST14	MP-POLY	593.093	4457.579	12.19	225	0.15	1.31	298.00	0.3205	No	1.404
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST15	MP-POLY	593.093	4457.579	28.04	225	0.04	8.26	316.33	0.0534	No	0.234
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST16	C-5 HOT OIL HEATER, NG	593.093	4457.579	6.10	225	0.33	7.45	616.33	0.0551	No	0.241
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST17	C-5 PROCESS UNIT	593.093	4457.579	12.19	225	0.10	18.35	293.00	0.0019	No	0.009
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST18	C-5 PROCESS UNIT	593.093	4457.579	12.19	225	0.05	82.54	293.00	0.1083	No	0.474
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST19	C-5 PROCESS UNIT	593.093	4457.579	1.52	225	0.08	0.52	293.00	0.0730	No	0.320
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST2	V-8 AREA	593.093	4457.579	4.88	225	0.41	28.80	633.56	0.8208	No	3.595
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST20	C-5 PROCESS UNIT	593.093	4457.579	9.14	225	0.08	0.30	316.33	0.0079	No	0.035
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST21	C-5 FINISHED RESIN AREA	593.093	4457.579	9.14	225	0.08	0.94	285.78	0.0043	No	0.019
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST22	C-5 FINISHED RESIN AREA	593.093	4457.579	9.14	225	0.51	18.65	293.00	0.5099	No	2.233
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST23	#1 & #2 LTC UNIT	593.093	4457.579	6.10	225	0.30	16.76	810.78	0.0339	No	0.148
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST24	#1 & #2 LTC UNIT	593.093	4457.579	6.10	225	0.30	23.77	616.33	0.0163	No	0.071
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST25	#1 & #2 LTC UNIT	593.093	4457.579	9.75	225	0.49	8.63	293.00	0.6489	No	2.842
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST26	#3 LTC UNIT	593.093	4457.579	6.10	225	0.30	29.56	810.78	0.0029	No	0.013
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST27	PAVED AND UNPAVED ROADS	593.093	4457.579	14.02	225	0.40	16.82	295.22	0.0153	No	0.067
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST28	PAVED AND UNPAVED ROADS	593.093	4457.579	12.19	225	0.15	3.47	295.22	0.0996	No	0.436
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST29	VEHICLE EXHAUST	593.093	4457.579	8.84	225	0.49	8.29	295.22	0.0003	No	0.001
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST3	V-8 AREA	593.093	4457.579	10.06	225	0.69	2.13	616.33	0.0070	No	0.031
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST30	THERMAL POLY HEATER NG	593.093	4457.579	7.62	225	0.46	33.22	616.33	0.0352	No	0.154
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST4	WATER-WHITE POLY AREA	593.093	4457.579	0.61	225	0.10	0.27	298.00	0.0184	No	0.081
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST5	WATER-WHITE POLY AREA	593.093	4457.579	8.53	225	0.08	6.22	283.00	0.0035	No	0.016
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST6	WATER-WHITE POLY AREA	593.093	4457.579	0.61	225	0.05	5.06	310.78	0.0488	No	0.214
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST7	WATER-WHITE POLY AREA	593.093	4457.579	6.71	225	0.05	1.77	298.00	0.0849	No	0.372
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST8	WATER-WHITE POLY AREA	593.093	4457.579	8.53	225	0.15	1.55	298.00	0.0184	No	0.081
PA	Allegheny	EASTMAN CHEMICAL RESINS, INC.	EAST9	BOILERS 1-2	593.093	4457.579	14.32	225	0.69	8.84	616.33	0.0055	No	0.024
PA	Allegheny	ELG METALS	ELG	METALS PROCESSING	596.803	4465.697	3.96	229	1.02	10.06	299.70	0.1712	No	0.750
PA	Allegheny	EPIC METALS CORPORATION	EPIC	PAINTING OPERATION	595.392	4473.383	7.62	235	0.53	19.29	596.89	0.0100	No	0.044
PA	Allegheny	EXXONMOBIL NEVILLE ISLAND MARKETING TERM	EXXNEV	VEHICLE EMISSIONS	573.894	4483.876	3.96	222	0.03	5.58	295.22	0.0069	No	0.030
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH1	BOILERS	595.692	4485.777	6.10	298	2.13	0.03	533.00	0.0233	No	0.102
PA	Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	FOXCH2	ROADS	595.692	4485.777	36.88	298	1.19	5.58	295.22	0.0004	No	0.002
PA	Allegheny	GALVTECH	GALVT1	NATURAL GAS COMBUSTION	590.590	4471.881	22.86	228	1.52	4.48	533.00	0.6244	No	2.735
PA	Allegheny	GALVTECH	GALVT2	NATURAL GAS COMBUSTION	590.591	4471.781	18.29	228	0.08	30.02	366.33	0.0188	No	0.082
PA	Allegheny	GALVTECH	GALVT3	MISCELLANEOUS	590.590	4471.881	12.50	228	0.58	7.38	373.56	0.0173	No	0.076
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT1	BULK MATERIAL UNLOADING	576.192	4468.779	20.73	244	1.10	15.88	432.44	0.4400	No	1.927
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT10	CULLET STORAGE PILE	576.192	4468.779	10.06	244	0.85	1.10	309.67	0.0029	No	0.013
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT11	CULLET STORAGE PILE	576.693	4468.784	10.06	244	0.85	1.10	295.22	0.0004	No	0.002
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT2	SIMPLEX GLASS PRODUCTION	576.693	4468.784	27.13	244	1.07	12.53	295.22	0.3122	No	1.367
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT3	GAS ELECTRIC GLASS PROD.	576.192	4468.779	27.13	244	1.07	12.53	494.11	0.0901	No	0.395
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT4	TUBE DRAWING PROCESS GRP	576.693	4468.784	16.15	244	0.91	10.30	295.22	0.0256	No	0.112
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT5	BOILER NO. 2	576.693	4468.784	17.07	244	0.20	9.11	810.78	0.0036	No	0.016
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT6	BOILER NO. 3	576.693	4468.784	12.80	244	0.34	0.03	310.78	0.0024	No	0.011
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT7	HOT WATER HEATERS	576.192	4468.779	11.28	244	0.46	14.26	473.00	0.0032	No	0.014
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT8	SPACE HEATERS	576.693	4468.784	10.67	244	0.43	6.55	383.00	0.0006	No	0.003
PA	Allegheny	GE CONSUMER PRODUCTS, LIGHTING	GELIT9	SPACE HEATERS	576.693	4468.784	10.06	244	0.46	9.24	390.78	0.0008	No	0.003

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP1	YOUNG BROS BAKE-OUT OVEN	590.278	4468.024	7.62	357	0.30	23.58	533.00	0.0009	No	0.004
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP2	DESPATCH BAKE OVEN	590.278	4468.024	2.44	357	0.23	23.71	533.00	0.0002	No	0.001
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP3	WELDING	590.278	4468.024	11.89	357	0.88	0.52	299.67	0.0627	No	0.275
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP4	BABBITT	590.278	4468.024	11.28	357	0.52	9.45	310.78	0.0081	No	0.035
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP5	SPACE HEATERS	590.278	4468.024	10.67	357	0.43	6.55	383.00	0.0052	No	0.023
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP6	ABRASIVE BLAST	590.278	4468.024	7.92	357	0.61	15.24	299.67	0.0266	No	0.117
PA	Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	GEAPP7	FUGITIVES CLEANING/NDT	590.278	4468.024	13.72	357	0.49	5.03	295.22	0.0018	No	0.008
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM1	BOILER #1	593.050	4466.504	14.02	274	0.70	16.79	498.00	0.0384	No	0.168
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM2	OIL FIRED SPACE HEATERS	593.195	4466.484	6.10	274	0.24	0.03	394.11	0.0799	No	0.350
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM3	DIE BUILDING HEATERS - 5	593.195	4466.484	12.19	274	0.30	0.03	366.33	0.0057	No	0.025
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM4	PACKAGE BOILER HOT WATER	593.195	4466.484	1.52	274	0.30	0.03	477.44	0.0020	No	0.009
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM5	HIGH TANK BOILER	593.195	4466.484	6.10	274	0.24	0.03	477.44	0.0002	No	0.001
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM6	RACK REPAIR HEATERS - 4	593.195	4466.484	4.57	274	0.24	4.57	366.33	0.0004	No	0.002
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM7	WELLNESS CENTER HVAC UNIT	593.195	4466.484	15.85	274	0.67	7.10	366.33	0.0022	No	0.010
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM8	VEHICLES AND ROADS	593.291	4465.575	17.07	274	0.82	8.02	295.22	0.0539	No	0.236
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM9	VEHICLES AND ROADS	593.291	4465.575	8.84	274	0.46	19.23	295.22	0.0512	No	0.224
PA	Allegheny	GENERAL MOTORS PITTSBURGH PLANT	GM10	VEHICLES AND ROADS	593.291	4465.575	6.10	274	0.27	8.23	295.22	0.0021	No	0.009
PA	Allegheny	GENERIC UNIT	GENRC1	GENERIC UNIT	582.517	4476.583	18.90	243	3.05	18.68	580.22	0.1096	No	0.480
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN1	UNIT HEATERS (42)	588.792	4486.080	15.85	229	0.67	7.10	295.22	0.0723	No	0.317
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN2	CULLET STORAGE PILE	588.792	4486.080	20.73	229	1.10	15.88	295.22	0.0416	No	0.182
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN3	ROADS AND VEHICLES	588.792	4486.080	36.88	229	1.19	5.58	295.22	0.0101	No	0.044
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN4	ROADS AND VEHICLES	588.792	4486.080	8.84	229	0.46	19.23	295.22	0.0009	No	0.004
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN5	MELTING FURNACE #1-2	588.792	4486.080	41.15	229	1.50	10.30	859.11	9.0184	No	39.501
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN6	MELTING FURNACE #4	588.800	4486.058	19.51	229	1.42	8.11	492.44	2.8255	No	12.376
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN7	HOT END SURFACE TREATS	588.893	4486.082	16.15	229	0.70	12.77	374.67	2.0199	No	8.847
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN8	ANNEALING LEHRS	588.893	4486.082	42.37	229	0.40	2.83	364.67	0.0530	No	0.232
PA	Allegheny	GLENSHAW GLASS COMPANY, INC.	GLEN9	MATERIALS HANDLING	588.792	4486.080	12.19	229	0.59	24.54	293.00	2.6165	No	11.460
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD1	RAW MATERIAL RECEIVING	592.194	4456.680	20.73	225	1.10	15.88	295.22	0.5250	No	2.300
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD2	GLASS MELTING AND FORMING	592.194	4456.680	24.99	225	2.70	25.51	535.22	2.4268	No	10.629
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD3	GLASS MELTING AND FORMING	592.194	4456.680	30.48	225	1.98	22.10	554.67	3.2748	No	14.344
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD4	CULLET PROCESSING	592.194	4456.680	17.07	225	1.04	15.91	295.22	0.2327	No	1.019
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD5	SPACE/WATER HEATERS, NG	592.194	4456.680	15.24	225	0.82	7.86	295.22	0.0145	No	0.063
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD6	FORK TRUCK, PROPANE	592.194	4456.680	8.84	225	0.49	8.29	295.22	0.0006	No	0.003
PA	Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	GUARD7	SITE DEDICATED VEHICLES	592.194	4456.680	10.36	225	0.58	33.62	295.22	0.0336	No	0.147
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV1	SMALL COMBUSTION, VEHICLES	588.250	4477.426	18.90	280	0.85	7.32	295.22	0.0006	No	0.003
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV2	VEHICLE EMISSIONS	588.250	4477.426	8.84	280	0.49	8.29	295.22	0.0004	No	0.002
PA	Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GLFNV3	VEHICLE EMISSIONS	588.250	4477.426	8.23	280	2.62	2.80	295.22	0.0172	No	0.075
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL1	MAIN SCREENING PLANT	588.250	4477.426	8.84	280	1.04	16.79	295.22	0.0349	No	0.153
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL2	MAIN SCREENING PLANT	588.250	4477.426	8.23	280	1.01	16.15	295.22	0.0279	No	0.122
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL3	1B-FINES SCREENING PLANT	588.250	4477.426	8.84	280	1.07	16.86	295.22	0.0035	No	0.015
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL4	VEHICLE EMISSIONS	588.250	4477.426	8.84	280	0.46	19.23	295.22	0.2804	No	1.228
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL5	ROADWAY EMISSIONS	588.250	4477.426	8.53	280	1.01	15.97	295.22	0.0176	No	0.077
PA	Allegheny	HEIGHTS PLAZA MATERIALS, INC	HGTPL6	MAINT GARAGE HEATING SYS	588.250	4477.426	11.28	280	0.46	14.26	295.22	0.0001	No	0.001
PA	Allegheny	HOECHSTETTER PRINTING	HOECHS	HEATSET WEB PRINTING	593.823	4478.026	15.54	282	0.24	12.66	435.78	0.0050	No	0.022
PA	Allegheny	HUSSEY COPPER LTD.	HUSS1	F-1 REVERBERATORY FURNACE	565.792	4491.682	13.72	216	2.13	15.30	408.56	4.9956	No	21.881
PA	Allegheny	HUSSEY COPPER LTD.	HUSS10	LC-1 LEAD COATING/DROSSNG	565.792	4491.682	40.23	216	2.53	10.73	295.22	0.0016	No	0.007
PA	Allegheny	HUSSEY COPPER LTD.	HUSS11	COPPER SCRAP HAND/BAILING	565.792	4491.682	14.32	216	1.10	12.89	295.22	0.3638	No	1.593
PA	Allegheny	HUSSEY COPPER LTD.	HUSS12	WEST BOILER	565.902	4491.738	12.50	216	0.61	0.52	394.11	0.0115	No	0.050
PA	Allegheny	HUSSEY COPPER LTD.	HUSS13	MISC, NG USAGE	565.792	4491.682	15.24	216	0.82	7.86	295.22	0.0332	No	0.145
PA	Allegheny	HUSSEY COPPER LTD.	HUSS14	BAGHOUSE DUST CAPTURED	565.792	4491.682	11.58	216	0.76	14.08	295.22	0.1607	No	0.704

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	HUSSEY COPPER LTD.	HUSS15	UNPAVED PLANT ROADWAYS	565.792	4491.682	65.53	216	0.94	2.80	295.22	0.0095	No	0.042
PA	Allegheny	HUSSEY COPPER LTD.	HUSS2	F-7A/B INDUCTION FURNACE	565.792	4491.682	11.58	216	0.91	8.63	316.33	0.0554	No	0.243
PA	Allegheny	HUSSEY COPPER LTD.	HUSS3	SC-1 SCALPER	565.894	4491.682	19.20	216	0.61	19.41	294.11	0.0178	No	0.078
PA	Allegheny	HUSSEY COPPER LTD.	HUSS4	AF-21 CONTINOUS ANNEALER	565.895	4491.583	13.72	216	0.41	3.20	755.22	0.0189	No	0.083
PA	Allegheny	HUSSEY COPPER LTD.	HUSS5	AF-31 CONTINOUS ANNEALER	565.894	4491.682	18.29	216	0.36	3.66	699.67	0.0189	No	0.083
PA	Allegheny	HUSSEY COPPER LTD.	HUSS6	F-11 REHEAT FURNACE	565.791	4491.781	3.66	216	0.85	0.55	1088.56	0.0884	No	0.387
PA	Allegheny	HUSSEY COPPER LTD.	HUSS7	AF-15 PLATE ANNEALER	565.894	4491.682	2.44	216	0.85	0.04	810.78	0.0005	No	0.002
PA	Allegheny	HUSSEY COPPER LTD.	HUSS8	F-16 BELL FURNACE	565.894	4491.682	3.05	216	0.18	5.49	533.00	0.0174	No	0.076
PA	Allegheny	HUSSEY COPPER LTD.	HUSS9	F-25 BOX FURNACE	565.894	4491.682	3.05	216	0.15	7.92	533.00	0.0174	No	0.076
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA1	HMA AGGREGATE PROCESSING	595.189	4497.284	10.67	324	1.22	16.18	421.89	0.0611	No	0.267
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA2	HMA AGGREGATE PROCESSING	595.189	4497.284	10.36	324	1.25	14.69	295.22	0.4388	No	1.922
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA3	ASPHALT TANK HEATER UNITS	595.189	4497.284	3.66	324	0.61	6.47	477.44	0.0024	No	0.011
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA4	AGG HANDLING SAND	595.189	4497.284	9.75	324	1.19	14.20	295.22	1.3163	No	5.766
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA5	ONSITE VEHICLE/ HIGH LIFT	595.189	4497.284	20.42	324	0.64	6.68	295.22	0.0439	No	0.192
PA	Allegheny	IA CONSTRUCTION GIBSONIA	IA6	ONSITE VEHICLE/ HIGH LIFT	595.189	4497.284	3.96	324	0.03	5.58	295.22	0.0182	No	0.080
PA	Allegheny	IDL INCORPORATED	IDL1	UNPAVED PARKING LOTS	604.793	4479.682	8.23	347	0.55	9.05	295.22	0.0145	No	0.064
PA	Allegheny	IDL INCORPORATED	IDL2	MISC NATURAL GAS COMBUSTN	604.793	4479.682	16.15	347	0.91	10.30	295.22	0.0063	No	0.028
PA	Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	JEFFHS	BOILERS	590.615	4463.532	29.26	366	3.28	0.03	533.00	0.0666	No	0.292
PA	Allegheny	KELLY RUN SANITATION	KELRN1	DEDICATED DIESEL VEHICLES	595.093	4456.083	8.84	315	0.40	23.84	295.22	0.1870	No	0.819
PA	Allegheny	KELLY RUN SANITATION	KELRN2	BORROW/COVER ACTIVITY	595.093	4456.083	21.94	315	1.62	15.39	295.22	0.1138	No	0.498
PA	Allegheny	KELLY RUN SANITATION	KELRN3	BORROW/COVER ACTIVITY	595.093	4456.083	21.33	315	1.28	12.37	295.22	1.1017	No	4.825
PA	Allegheny	KELLY RUN SANITATION	KELRN4	ENCLOSED GROUND FLARE #1	595.093	4456.083	9.45	315	2.03	0.61	1160.78	0.1294	No	0.567
PA	Allegheny	KELLY RUN SANITATION	KELRN5	BLASTING	595.093	4456.083	8.84	315	0.98	15.21	295.22	0.1433	No	0.628
PA	Allegheny	KELLY RUN SANITATION	KELRN6	UNPAVED ROADS	595.093	4456.083	1.83	315	0.09	0.67	295.22	0.4326	No	1.895
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI1	PROCESS FURNACE	596.191	4491.779	21.33	245	1.13	9.05	295.22	0.0028	No	0.012
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI2	BOILER NATURAL GAS	596.191	4491.779	5.49	245	0.51	3.84	533.00	0.0027	No	0.012
PA	Allegheny	KINDER MORGAN INDIANOLA PLANT	KINDI3	PROCESS FURNACE NG	596.191	4491.779	3.05	245	0.30	50.02	589.11	0.1055	No	0.462
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL1	HOPKINS 800 HEATER	595.059	4467.601	3.66	223	0.76	2.07	1144.11	0.1104	No	0.484
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL2	SELLERS HEATER	595.195	4467.727	19.81	223	1.13	8.20	473.56	0.0041	No	0.018
PA	Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	KINDL3	THERMTECH VAPOR INCIN.	595.114	4467.652	19.81	223	1.13	8.20	295.22	0.0034	No	0.015
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL1	POT FURNACES	594.292	4475.179	36.57	280	2.44	20.22	505.22	0.0745	No	0.326
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL2	GLASS FORMING	594.292	4475.179	16.76	280	0.85	12.71	295.22	0.0263	No	0.115
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL3	TEMPERING	594.292	4475.179	12.19	280	0.10	0.03	366.33	0.0019	No	0.009
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL4	OFFICE HTG FURNACES	594.292	4475.179	12.19	280	0.30	0.37	394.11	0.0013	No	0.006
PA	Allegheny	KOPP GLASS, INCORPORATED	KOPGL5	PLANT SPACE HEATERS	594.292	4475.179	15.85	280	0.67	7.10	295.22	0.0047	No	0.021
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR1	ROD PITCH MANUFACTURING	595.105	4462.297	15.24	222	0.30	3.05	324.67	0.0784	Yes	0.344
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR2	ROD PITCH MANUFACTURING	595.105	4462.297	14.93	222	0.61	8.02	295.22	0.2010	No	0.880
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR3	PRIMARY FLASH HEATER	595.043	4462.341	32.00	222	2.06	8.23	921.89	0.1860	Yes	0.815
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR4	PRILL HOT OIL HEATER	595.070	4462.296	12.19	222	0.61	1.25	921.89	0.0173	Yes	0.076
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR5	TRANSPORTATION	594.927	4462.332	14.02	222	0.40	16.82	295.22	0.0072	No	0.032
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR6	TRANSPORTATION	594.927	4462.332	11.58	222	0.70	4.60	295.22	0.1938	No	0.849
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR7	TRANSPORTATION	594.927	4462.332	8.84	222	0.40	23.84	295.22	0.0593	No	0.260
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR8	LOADING	594.927	4462.332	10.36	222	0.85	1.34	295.22	1.2314	No	5.394
PA	Allegheny	KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPR9	COOLING TOWER	595.072	4462.341	17.37	222	4.54	10.55	295.22	0.2040	No	0.894
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM1	CEMENT BULK LOADING	578.295	4482.777	0.61	223	0.30	27.19	294.11	0.0261	No	0.115
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM2	BULK TRUCK LOADING	578.295	4482.777	0.61	223	0.30	19.63	294.11	0.0463	No	0.203
PA	Allegheny	KOSMOS CEMENT COMPANY	KOSM3	CEMENT UNLOADING FRM BRG	578.295	4482.777	0.61	223	0.30	0.61	294.11	0.0896	No	0.393
PA	Allegheny	LANGENFELDER & SON, INC.	LANG1	A SCRAP STORAGE & HANDLNG	597.692	4472.081	8.84	242	1.04	16.31	295.22	0.0771	No	0.338
PA	Allegheny	LANGENFELDER & SON, INC.	LANG2	SLAG PROCESSING	597.692	4472.081	8.53	242	1.01	16.58	295.22	0.0467	No	0.205
PA	Allegheny	LANGENFELDER & SON, INC.	LANG3	SCRAP CUTTING AND LANCING	597.692	4472.081	23.16	242	1.83	9.69	295.22	0.0228	No	0.100

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	LANGENFELDER & SON, INC.	LANG4	SLAG PROCESSING	597.692	4472.081	8.84	242	1.04	16.58	295.22	0.3731	No	1.634
PA	Allegheny	LANGENFELDER & SON, INC.	LANG5	SLAG PROCESSING	597.692	4472.081	8.84	242	1.04	16.79	295.22	0.3731	No	1.634
PA	Allegheny	LANGENFELDER & SON, INC.	LANG6	SLAG PROCESSING	597.692	4472.081	8.23	242	1.01	16.15	295.22	0.2299	No	1.007
PA	Allegheny	LANGENFELDER & SON, INC.	LANG7	UNPAVED ROADS	597.692	4472.081	8.53	242	1.01	15.97	295.22	0.0677	No	0.297
PA	Allegheny	LAUREL MOUNTAIN WHIRLPOOLS, INC.	LAURL	PROCESS & SPACE HEATING	600.496	4473.783	28.95	295	0.91	18.68	294.11	0.0033	No	0.014
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL1	SAWING-DUST COLLECTOR	593.490	4465.977	9.45	262	0.52	9.78	295.22	0.0066	No	0.029
PA	Allegheny	LIBERTY POLYGLAS PULTRUSIONS	LIBPL2	BOILER, NG	593.490	4465.977	6.10	262	0.46	1.43	410.78	0.0052	No	0.023
PA	Allegheny	LIBERTY-PITTSBURGH SYSTEMS, INC.	LPSYS	NATURAL GAS USAGE	575.167	4484.610	15.24	218	0.82	7.86	295.22	0.0008	No	0.003
PA	Allegheny	MAYVIEW STATE HOSPITAL	MAYVW	BOILER PLANT	575.754	4464.212	21.03	274	1.50	2.50	505.22	0.1430	No	0.626
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR1	STEEL MAKING	587.795	4481.484	7.62	223	0.84	21.19	421.89	0.0692	No	0.303
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR10	MOLD AND SAND HANDLING	587.796	4481.384	12.50	223	0.82	17.13	295.22	2.0954	No	9.178
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR11	CLEANING AND FINISHING	587.796	4481.384	10.06	223	1.16	17.03	293.00	1.1316	No	4.957
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR12	CLEANING AND FINISHING	587.796	4481.384	12.80	223	1.51	9.02	293.00	0.2712	No	1.188
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR13	CLEANING AND FINISHING	587.796	4481.384	14.02	223	1.16	14.42	295.22	0.0257	No	0.112
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR14	CLEANING AND FINISHING	587.796	4481.384	10.67	223	0.98	19.57	295.22	0.2411	No	1.056
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR15	HEAT TREATING FURNACES	587.796	4481.384	15.85	223	0.67	7.10	295.22	0.0737	No	0.323
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR16	LANCE TABLE	587.796	4481.384	10.67	223	0.43	6.55	295.22	0.0032	No	0.014
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR17	ONSITE VEHICLE TRAFFIC	587.796	4481.384	13.41	223	1.07	12.22	295.22	0.0453	No	0.199
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR2	STEEL MAKING	587.694	4481.382	8.53	223	1.42	11.82	408.00	0.2979	No	1.305
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR3	STEEL MAKING	587.796	4481.384	14.63	223	1.98	14.78	295.22	0.3462	No	1.516
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR4	STEEL MAKING	587.796	4481.384	12.50	223	0.70	9.54	295.22	0.7899	No	3.460
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR5	STEEL MAKING	587.796	4481.384	11.89	223	1.13	12.19	295.22	0.7899	No	3.460
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR6	STEEL MAKING	587.796	4481.384	10.97	223	2.07	9.85	295.22	0.1241	No	0.544
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR7	MOLD AND SAND HANDLING	587.694	4481.382	8.53	223	0.99	28.57	293.00	1.3382	No	5.861
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR8	MOLD AND SAND HANDLING	587.696	4481.283	9.45	223	1.52	21.01	293.00	5.6726	No	24.846
PA	Allegheny	MCCONWAY & TORLEY CORPORATION	MCTR9	MOLD AND SAND HANDLING	587.796	4481.384	14.02	223	1.25	18.14	295.22	1.2388	No	5.426
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF1	AXLE FORGE	579.591	4481.281	24.38	221	1.22	5.67	477.44	0.0589	No	0.258
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF2	AXLE FORGE	579.594	4480.981	11.89	221	0.52	7.53	295.22	0.0393	No	0.172
PA	Allegheny	MCKEES ROCKS FORGINGS	MCKEF3	WHEEL FORGE	579.694	4481.182	6.10	221	1.52	1.62	644.11	0.0557	No	0.244
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY1	BOILER 1,4	585.994	4476.678	29.26	256	1.22	0.03	394.11	0.0450	No	0.197
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY2	BOILER 2-3	585.994	4476.678	19.81	256	1.13	8.20	295.22	0.0869	No	0.381
PA	Allegheny	MERCY HOSPITAL OF PITTSBURGH	MERCY3	COOLING TOWERS	585.994	4476.678	9.14	256	4.33	9.05	295.22	0.7969	No	3.491
PA	Allegheny	METALTECH	METAL1	NATURAL GAS COMBUSTION	587.393	4476.683	20.12	225	1.07	4.24	449.67	0.2985	No	1.307
PA	Allegheny	METALTECH	METAL2	NATURAL GAS COMBUSTION	587.393	4476.683	19.81	225	1.13	8.20	288.56	0.0004	No	0.002
PA	Allegheny	METALTECH	METAL3	NATURAL GAS COMBUSTION	587.392	4476.783	1.52	225	0.30	3.23	366.33	0.0174	No	0.076
PA	Allegheny	METALTECH	METAL4	MISCELLANEOUS	587.393	4476.683	12.50	225	0.58	7.38	288.56	0.0921	No	0.403
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN1	SCREENS	594.854	4461.654	24.08	225	1.46	7.92	331.33	0.1016	No	0.445
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN2	STORAGE PILES	594.854	4461.654	10.36	225	0.55	5.49	338.00	0.7608	No	3.333
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN3	ROAD EMISSIONS	594.854	4461.654	40.23	225	1.65	4.97	416.33	0.0142	No	0.062
PA	Allegheny	MID-CONTINENT COAL AND COKE	MIDCN4	EQUIPMENT FUEL USAGE	594.854	4461.654	12.80	225	0.58	5.85	380.22	0.0003	No	0.001
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV1	SLANT FIN BOILER #2 FO	569.898	4486.279	2.13	221	0.15	0.03	533.00	0.0001	No	0.001
PA	Allegheny	MOTIVA ENTERPRISES LLC	MOTIV2	OFFICE HEATER NATURAL GAS	569.292	4486.684	42.37	221	0.40	2.83	295.22	0.0027	No	0.012
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB1	BOILERS	580.595	4469.879	18.29	354	0.91	0.03	394.11	0.0379	No	0.166
PA	Allegheny	MT. LEBANON HIGH SCHOOL	MTLEB2	VEHICLE TRAFFIC	580.595	4469.901	36.88	354	1.19	5.58	295.22	0.0006	No	0.003
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH1	HIGH PRESSURE BOILERS	595.495	4459.274	7.62	232	0.41	13.41	560.78	0.0187	No	0.082
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH2	LOW PRESSURE BOILER NG	595.495	4459.274	7.62	232	0.30	6.40	505.22	0.0005	No	0.002
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH3	FORK TRUCK-CLARK #2 FUEL	595.495	4459.274	3.96	232	0.03	5.58	295.22	0.0028	No	0.012
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH4	FORK TRUCK-CLARK #2 FUEL	595.495	4459.274	0.00	232	0.00	0.00	295.22	0.5255	No	2.302
PA	Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	NASH5	GRIT BLASTING	595.495	4459.274	3.05	232	0.20	4.00	295.22	0.0026	No	0.012
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL1	500# COMBUSTER	586.890	4462.234	24.08	302	0.20	31.09	410.78	0.0031	No	0.014

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL2	EXP. COAL COMBUSTER -CERF	586.894	4461.879	15.24	302	0.10	5.94	338.56	0.0002	No	0.001
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL3	AJAX BOILER - BLDG 922	586.894	4461.879	15.85	320	0.81	2.59	394.11	0.0007	No	0.003
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL4	RAYPAK BOILERS - BLDG 921	586.894	4461.879	8.53	320	0.61	2.22	394.11	0.0002	No	0.001
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL5	3 KEWANEE BLRS - BLDG 84	586.894	4461.879	21.33	302	0.61	2.38	499.67	0.0010	No	0.004
PA	Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL6	BOILER STACK	586.894	4461.879	155.44	302	4.45	18.90	295.22	0.2053	No	0.899
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC1	NO. 3 STILL PROCESS HEATR	576.394	4483.878	9.14	221	0.46	6.31	599.67	0.0093	No	0.041
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC10	NO. 2 PACKAGING CENTER	576.394	4483.878	3.66	221	0.29	22.10	293.00	0.0579	No	0.254
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC11	#2 PKG. CENTER HEATER NG	576.394	4483.878	11.28	221	0.76	2.59	602.44	0.0070	No	0.031
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC12	#3 PACKAGING CTR. HTR. NG	576.394	4483.878	15.54	221	0.61	2.44	603.00	0.0146	No	0.064
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC13	#5 PACKAGINC CTR. HTR. NG	576.394	4483.878	7.31	221	0.46	4.30	610.78	0.0161	No	0.071
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC14	NO. 8 BOILER	576.394	4483.878	16.46	221	1.22	0.58	544.11	0.0153	No	0.067
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC15	NO. 6 BOILER	576.394	4483.878	10.67	221	0.91	8.35	451.89	0.2086	No	0.914
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC16	NO. 7 BOILER	576.394	4483.878	12.19	221	1.22	7.89	600.22	0.3543	No	1.552
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC17	VEHICLE EXHAUST	576.394	4483.878	14.02	221	0.40	16.82	295.22	0.0144	No	0.063
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC18	VEHICLE EXHAUST	576.394	4483.878	8.84	221	0.40	23.84	295.22	0.0647	No	0.283
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC19	HYDROLASER/WATER BLASTING	576.394	4483.878	15.24	221	0.64	11.09	295.22	0.2650	No	1.161
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC2	#4 STILL PROCESS HEATER	576.394	4483.878	17.68	221	1.31	1.83	599.67	0.0309	No	0.135
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC20	UNIT 43 OXIDIZER NG	576.394	4483.878	7.01	221	0.61	3.23	599.67	0.0400	No	0.175
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC3	#15 STILL PROCESS HTR. NG	576.394	4483.878	21.33	221	0.85	3.29	689.67	0.0087	No	0.038
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC4	#16 STILL PROCESS HTR. NG	576.394	4483.878	17.37	221	0.69	3.69	643.00	0.0085	No	0.037
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC5	#18 STILL PROCESS HTR. NG	576.394	4483.878	13.41	221	0.61	6.16	614.11	0.0100	No	0.044
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC6	#19 STILL PROCESS HTR. NG	576.394	4483.878	8.23	221	0.76	3.93	611.33	0.0115	No	0.050
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC7	UNIT 21 PROCESS	576.394	4483.878	13.72	221	0.30	0.01	294.11	0.0002	No	0.001
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC8	UNIT C-5 PROCESS HTR., NG	576.394	4483.878	10.97	221	0.53	4.26	602.44	0.0114	No	0.050
PA	Allegheny	NEVILLE CHEMICAL COMPANY	NEVC9	NO. 2 PACKAGING CENTER	576.394	4483.878	4.57	221	0.61	7.83	293.00	0.0339	No	0.149
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM1	RAW MATERIAL UNLOADING	566.974	4490.216	19.51	212	1.28	10.45	295.22	0.3039	No	1.331
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM2	MATERIAL CONVEYORS	566.974	4490.216	15.85	212	1.25	10.18	295.22	0.2762	No	1.210
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM3	BALL MILL	566.974	4490.216	14.02	212	0.38	18.29	294.11	0.0235	No	0.103
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM4	MECHANICAL SEPARATOR	566.974	4490.216	15.54	212	1.25	12.28	295.22	0.0091	No	0.040
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM5	FINISHED PRODUCT TRANSFER	566.974	4490.216	19.81	212	1.43	12.89	295.22	0.1330	No	0.583
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM6	TRUCK LOADING	566.974	4490.216	18.29	212	0.94	11.22	295.22	0.0369	No	0.162
PA	Allegheny	NEVILLE PULVERIZED LIME	NEVLM7	VEHICLE EMISSIONS ON SITE	566.974	4490.216	0.00	212	0.00	0.00	295.22	0.0176	No	0.077
PA	Allegheny	NEXTECH	NEXT1	NATURAL GAS COMBUSTION	599.334	4473.161	25.60	236	1.46	1.98	449.67	0.2148	No	0.941
PA	Allegheny	NEXTECH	NEXT2	NATURAL GAS COMBUSTION	599.334	4473.161	33.83	236	1.34	10.52	473.00	0.0096	No	0.042
PA	Allegheny	NEXTECH	NEXT3	NATURAL GAS COMBUSTION	599.334	4473.161	13.72	236	0.55	2.19	366.33	0.0010	No	0.004
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG1	BOILER NO. 1, NATURAL GAS	584.264	4478.101	15.24	235	0.91	24.14	591.33	0.0734	No	0.322
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG2	BOILER NO. 2, NATURAL GAS	584.264	4478.101	15.24	235	0.91	17.10	427.44	0.2047	No	0.897
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG3	BOILER NO. 3, NATURAL GAS	584.264	4478.101	15.24	235	1.22	16.18	552.44	0.3947	No	1.729
PA	Allegheny	NRG ENERGY CENTER PITTSBURGH	NRG4	BOILER NO. 4, NATURAL GAS	584.264	4478.101	18.29	235	0.71	9.14	477.44	0.0058	No	0.026
PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN1	TURBINES 1A,1B,1C	581.245	4479.633	10.06	222	2.00	24.11	735.22	0.0757	No	0.331
PA	Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	BRUN2	TURBINES 2A, 2B, 3 - NG	581.038	4479.953	21.03	222	3.10	23.01	433.00	0.2460	No	1.078
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR1	IMPREGNATOR/LAMINATOR	593.244	4497.870	13.72	284	0.46	2.13	338.56	0.0011	No	0.005
PA	Allegheny	PANNIER CORPORATION, GRAPHICS DIVISION	PANNR2	SCREEN PRINTER	593.244	4497.870	5.79	284	0.43	13.11	394.11	0.0011	No	0.005
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC1	ENGINE TEST LAB	599.191	4488.976	9.14	233	0.13	0.03	533.00	0.2944	No	1.289
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC2	D2 ROAD SIMULATOR	599.191	4488.976	9.14	233	0.16	0.03	294.11	0.1308	No	0.573
PA	Allegheny	PARC TECHNICAL SERVICES, INC.	PARC3	BUILDING B11 W STACK	599.293	4488.977	9.14	233	0.30	0.03	294.11	0.0052	No	0.023
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL1	LARGE BAKE OVEN, NG	594.207	4463.670	12.19	262	0.37	11.58	416.33	0.0015	Yes	0.006
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL2	SMALL BAKE OVEN, NG	594.207	4463.670	12.50	262	0.23	1.54	408.00	0.0022	Yes	0.010
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL3	COLLAPSIBLE BLASTING ROOM	594.207	4463.670	3.05	262	0.20	4.00	295.22	0.0004	Yes	0.002
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL4	COIL MFG. OVEN 3 UNITS NG	594.207	4463.670	10.97	262	0.20	0.03	533.00	0.0033	Yes	0.015

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PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL5	GAS INSULATOR	594.207	4463.670	10.97	262	0.20	0.03	294.11	0.0001	Yes	0.001
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL6	SPACE HEATERS, NG	594.207	4463.670	10.67	262	0.43	6.55	383.00	0.0052	Yes	0.023
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL7	SMALL BURNOFF OVEN	594.207	4463.670	15.24	262	0.20	4.75	1033.00	0.0004	Yes	0.002
PA	Allegheny	PENNSYLVANIA ELECTRIC COIL LTD	PCOIL8	LARGE BURNOFF OVEN	594.207	4463.670	12.19	262	0.46	6.40	1033.00	0.0006	Yes	0.003
PA	Allegheny	PITT PENN OIL COMPANY	PITPN1	BOILER, NG	603.493	4491.477	7.92	228	0.41	1.83	533.00	0.0008	No	0.004
PA	Allegheny	PITT PENN OIL COMPANY	PITPN2	MISC SPACE HEATERS	603.489	4492.376	15.85	228	0.67	7.10	293.00	0.0018	No	0.008
PA	Allegheny	PITT PENN OIL COMPANY	PITPN3	INDUSTRIAL ROADS	603.489	4492.376	10.67	228	0.40	11.13	293.00	0.0148	No	0.065
PA	Allegheny	PITT PENN OIL COMPANY	PITPN4	INDUSTRIAL ROADS	603.489	4492.376	7.62	228	0.64	7.59	293.00	0.0297	No	0.130
PA	Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LTD	PACT	BOILERS	584.475	4477.415	63.09	220	5.41	2.71	394.11	0.7600	No	3.329
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW1	COAL BOILER #1-TRAV GRATE	587.641	4479.417	64.00	232	2.40	4.60	478.00	0.6168	No	2.702
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW2	DRY GRAIN HANDLING	587.496	4479.482	10.67	232	1.16	11.92	295.22	0.1487	No	0.651
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW3	WEIGH HOPPER&MALT MILL	587.496	4479.482	23.16	232	0.55	10.30	295.22	0.0015	No	0.006
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW4	COOKING,BREW,SEPAR.	587.496	4479.482	19.51	232	0.15	3.51	371.89	0.0046	No	0.020
PA	Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	BREW5	COAL STORAGE & HANDLING	587.496	4479.482	11.89	232	0.49	8.78	295.22	0.0120	No	0.053
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI1	MICA MACHINE, OTHER	593.395	4473.580	19.81	224	1.13	8.20	295.22	0.0006	No	0.003
PA	Allegheny	PITTSBURGH ELECTRICAL INSULATION	PEI2	SPACE HEAT	593.395	4473.580	3.96	224	0.91	4.42	327.44	0.0006	No	0.003
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CTR	PPGCH1	NO 2 STEAM BOILER	608.711	4477.872	11.89	366	1.20	4.60	348.00	0.0051	No	0.023
PA	Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CTR	PPGCH2	NO 3-5 STEAM BOILERS	608.711	4477.872	7.62	366	0.61	4.28	450.78	0.0370	No	0.162
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP1	PAINT MANU.-RTO-SEE COM.	602.752	4488.080	13.11	232	0.60	14.60	476.89	1.8423	No	8.069
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP2	PAINT MAN.(NO RTO)SEE COM	602.752	4488.080	10.36	232	0.76	4.72	295.22	0.0218	No	0.095
PA	Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	PPGSP3	BOILERS	602.752	4488.080	19.81	232	1.13	8.20	295.22	0.0770	No	0.337
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT1	48" COATING LINE	598.365	4464.883	14.32	226	0.88	10.67	295.22	0.0320	No	0.140
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT2	60" COATING LINE	598.365	4464.883	13.72	226	1.52	15.24	1033.00	0.0698	Yes	0.306
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT3	60" COATING LINE	598.365	4464.883	13.72	226	0.46	6.34	380.22	0.0010	Yes	0.005
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT4	60" COATING LINE	598.365	4464.883	13.72	226	1.52	12.37	977.44	0.0602	Yes	0.264
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT5	YORK SHIPLEY BOILER #1NG	598.365	4464.883	15.24	226	0.82	7.86	295.22	0.0196	No	0.086
PA	Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECT6	MISC. SPACE & H2O HEATERS	598.365	4464.883	4.27	226	0.15	2.44	533.00	0.0242	Yes	0.106
PA	Allegheny	PRESSURE CHEMICAL COMPANY	PRESSR	ALL NG COMBUSTION UNITS	587.393	4479.580	10.67	221	0.43	6.55	294.11	0.0094	No	0.041
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET1	MEDIA MILLS	579.993	4479.376	8.84	228	0.58	8.44	315.78	0.2235	No	0.979
PA	Allegheny	PRUETT-SCHAFFER CHEMICAL CO., INC.	PRUET2	HEATING & VEHICLES	579.993	4479.376	15.85	228	0.67	7.10	295.22	0.0018	No	0.008
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR1	STEAM BOILER KH-1, NG	589.096	4486.084	6.10	238	0.46	10.67	533.00	0.0245	No	0.107
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR2	DRY GOODS HANDLING	589.197	4486.185	13.72	238	0.30	19.41	294.11	0.0782	No	0.343
PA	Allegheny	RANBAR TECHNOLOGY INC.	RANBR3	COOLING TOWER	589.197	4486.185	9.14	238	1.22	0.03	294.11	0.1030	No	0.451
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN1	PLANT FUGITIVE EMISSIONS	598.097	4490.382	12.19	305	1.62	6.49	295.22	0.0149	No	0.065
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN2	PLANT FUGITIVE EMISSIONS	598.097	4490.382	8.84	305	0.40	23.84	295.22	0.0542	No	0.238
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN3	RAW MATERIAL STORAGE	598.097	4490.382	13.41	305	0.55	15.73	295.22	0.0018	No	0.008
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN4	CRUSHING/GRINDING/SCREEN	598.097	4490.382	11.89	305	0.70	15.12	295.22	0.0158	No	0.069
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN5	CRUSHING/GRINDING/SCREEN	598.097	4490.382	3.05	305	0.20	4.00	295.22	0.0041	No	0.018
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN6	EXTRUSION LINE	598.097	4490.382	21.33	305	0.61	29.26	294.11	0.0247	No	0.108
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN7	BRICK SANDBLASTING	598.097	4490.382	7.62	305	0.58	11.22	295.22	0.1019	No	0.446
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN8	BRICK DRYER	598.097	4490.382	15.54	305	1.22	12.80	355.22	0.5294	No	2.319
PA	Allegheny	REDLAND BRICK INC. - HARMAR PLANT	REDLN9	NEW PLANT TUNNEL KILN	598.097	4490.382	12.50	305	0.94	11.73	295.22	2.0062	No	8.787
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS1	BLDG#6 HOT MELT	596.091	4482.385	1.83	231	0.16	0.03	294.11	0.0271	No	0.119
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS2	BLDG#9 GENERAL COATINGS	596.091	4482.385	4.27	231	0.69	0.03	310.78	0.0009	No	0.004
PA	Allegheny	ROYSTON LABORATORIES DIVISION	ROYS3	BLDG#10 NATURAL GAS	596.115	4483.185	1.22	231	0.16	0.03	294.11	0.0007	No	0.003
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO1	HSI AREA, SOLUTION POLY	593.093	4457.579	28.65	225	0.08	0.21	283.00	0.0170	No	0.075
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO2	HSI AREA, SOLUTION POLY	593.093	4457.579	3.66	225	0.26	73.76	293.00	0.0336	No	0.147
PA	Allegheny	SANYO CHEMICAL & RESIN, INC.	SANYO3	HSI AREA, SOLUTION POLY	593.093	4457.579	28.95	225	0.20	21.79	310.78	0.0100	No	0.044
PA	Allegheny	SCHENLEY SCHOOL	SCHNLY	GAS FIRED BOILERS	588.593	4478.484	38.10	305	2.29	0.03	533.00	0.0207	No	0.091
PA	Allegheny	SHALER AREA INTERMEDIATE SCHOOL	SHALR	BOILERS	601.896	4486.881	9.45	305	0.79	0.03	421.89	0.0111	No	0.049

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PA	Allegheny	SHENANGO INC.	SHEN1	BOILER #9, COKE OVEN GAS	578.213	4483.364	38.10	221	3.10	10.09	627.44	1.1259	No	4.931
PA	Allegheny	SHENANGO INC.	SHEN10	COAL STOCKPILE EROSION	578.193	4482.876	91.44	221	4.33	4.63	295.22	0.0833	No	0.365
PA	Allegheny	SHENANGO INC.	SHEN11	COKE HANDLING	578.193	4482.876	24.08	221	1.46	7.92	295.22	0.0176	No	0.077
PA	Allegheny	SHENANGO INC.	SHEN12	COOLING TOWERS	578.193	4482.876	9.14	221	4.33	9.05	295.22	1.0886	No	4.768
PA	Allegheny	SHENANGO INC.	SHEN13	UNPAVED ROADS	578.193	4482.876	17.07	221	0.82	8.02	295.22	0.5667	No	2.482
PA	Allegheny	SHENANGO INC.	SHEN14	EMERGENCY FLARE	577.998	4482.885	21.33	221	0.91	24.08	584.11	0.0005	No	0.002
PA	Allegheny	SHENANGO INC.	SHEN15	EMERGENCY FLARE	578.193	4482.876	14.02	221	0.58	4.39	295.22	0.0003	No	0.001
PA	Allegheny	SHENANGO INC.	SHEN16	PLANT VEHICLE EXHAUST	578.193	4482.876	14.02	221	0.40	16.82	295.22	0.0064	No	0.028
PA	Allegheny	SHENANGO INC.	SHEN17	PLANT VEHICLE EXHAUST	578.193	4482.876	8.84	221	0.40	23.84	295.22	0.6049	No	2.649
PA	Allegheny	SHENANGO INC.	SHEN18	#1 PACKAGE BOILER	577.692	4482.982	21.33	221	0.91	14.84	421.89	0.0032	No	0.014
PA	Allegheny	SHENANGO INC.	SHEN19	GENERATOR	582.517	4476.583	113.08	221	1.68	6.22	323.00	1.5000	No	6.570
PA	Allegheny	SHENANGO INC.	SHEN2	BOILER #10, COKE OVEN GAS	578.265	4483.298	34.14	221	3.10	10.70	477.44	0.6450	No	2.825
PA	Allegheny	SHENANGO INC.	SHEN3	BATTERY S1 FUGITIVES	578.193	4482.876	56.39	221	2.65	4.88	295.22	0.0164	No	0.072
PA	Allegheny	SHENANGO INC.	SHEN4	BATTERY S1 FUGITIVES	578.193	4482.876	55.17	221	2.35	6.58	295.22	0.0324	No	0.142
PA	Allegheny	SHENANGO INC.	SHEN5	BATTERY S1 FUGITIVES	578.193	4482.876	53.03	221	2.10	6.77	295.22	0.4501	No	1.971
PA	Allegheny	SHENANGO INC.	SHEN6	BATTERY S-1 UNDERFIRE	577.897	4483.572	76.20	221	2.59	9.02	590.22	4.2471	No	18.603
PA	Allegheny	SHENANGO INC.	SHEN7	PEC BAGHOUSE	577.998	4482.885	45.72	221	3.05	19.41	294.11	5.1628	No	22.613
PA	Allegheny	SHENANGO INC.	SHEN8	QUENCH TOWER, BATTERY S-1	578.193	4482.876	17.07	221	4.57	4.31	338.56	1.5002	No	6.571
PA	Allegheny	SHENANGO INC.	SHEN9	COAL HANDLING	578.193	4482.876	55.17	221	1.71	6.49	295.22	0.0803	No	0.352
PA	Allegheny	SOUTH HIGH SCHOOL	SOUTH	GAS FIRED BOILERS # 1-3	585.696	4475.975	32.00	223	1.68	0.03	533.00	0.0148	No	0.065
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI1	BOILER	581.194	4480.476	53.34	215	2.44	2.90	588.56	0.0575	No	0.252
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI2	FM01 COAL BUNKER	581.193	4480.576	20.12	215	1.10	17.43	295.22	0.0001	No	0.001
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI3	BAKING OVEN	581.193	4480.576	16.76	215	0.64	8.38	295.22	0.0020	No	0.009
PA	Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	SCI4	EMERGENCY ELECTRICITY	581.193	4480.576	12.50	215	0.43	13.35	295.22	0.0054	No	0.024
PA	Allegheny	SUN REFINING AND MARKETING, BLAWNOX	SUNREF	FURNACES C2G-15,C3GO25 NG	596.596	4483.979	42.37	296	0.40	2.83	295.22	0.0035	No	0.015
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV1	PLASTICIZER PLANT	577.995	4483.184	8.53	222	0.61	10.30	295.22	0.0944	No	0.414
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV2	PHTHALIC ANHYDRIDE DIST	577.995	4483.184	3.05	222	0.20	4.00	295.22	0.0415	No	0.182
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV3	ONSITE VEHICLES EMISSIONS	577.995	4483.184	14.02	222	0.40	16.82	295.22	0.0015	No	0.007
PA	Allegheny	SUNOCO CHEMICALS INC..NEVILLE ISLAND	SUNNV4	ROAD DUST EMISSIONS	577.995	4483.184	11.89	222	1.19	6.95	295.22	0.0077	No	0.034
PA	Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	LANEBR	ROTARY DRYERS	575.190	4469.579	10.36	247	0.91	13.41	366.33	1.3259	No	5.808
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM1	STOCKPILE OF AGGREGATES	580.591	4480.581	10.06	222	1.20	12.19	377.44	1.3221	No	5.791
PA	Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	LANEM2	ROTARY DRYER	580.591	4480.581	10.36	222	0.55	5.49	295.22	0.0013	No	0.006
PA	Allegheny	THE VALSPAR CORPORATION	VALSP1	BUILDING 5, THIOKOL	580.994	4480.885	9.14	218	0.91	3.84	326.33	0.8554	No	3.747
PA	Allegheny	THE VALSPAR CORPORATION	VALSP2	BUILDING 7, SMALL ORDER	580.994	4480.885	9.14	218	0.91	3.84	295.22	0.0302	No	0.132
PA	Allegheny	THE VALSPAR CORPORATION	VALSP3	BOILERS, CB 720-150	580.994	4480.885	15.24	218	0.46	0.03	338.56	0.0192	No	0.084
PA	Allegheny	THE VALSPAR CORPORATION	VALSP4	BOILERS - KEWANEE	580.994	4480.885	15.24	218	0.82	7.86	295.22	0.0199	No	0.087
PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT1	ABRASIVE BLAST	579.796	4480.384	4.57	224	0.52	0.03	310.78	0.0611	No	0.268
PA	Allegheny	TRINITY INDUSTRIES, INC. PLT # 441	TRINT2	INT & EXT COATINGS	579.796	4480.384	15.24	224	0.82	7.86	295.22	0.0062	No	0.027
PA	Allegheny	TRUMBULL CORPORATION	TRUMB1	CARBONATES AGGREGATE	572.996	4484.777	9.75	219	1.19	14.20	295.22	1.2003	No	5.258
PA	Allegheny	TRUMBULL CORPORATION	TRUMB2	LIMESTONE COARSE	572.996	4484.777	12.50	219	0.58	14.84	295.22	0.1746	No	0.765
PA	Allegheny	TRUMBULL CORPORATION	TRUMB3	ROTARY DRUM	572.996	4484.777	10.67	219	1.26	28.59	449.67	0.8132	No	3.562
PA	Allegheny	TRUMBULL CORPORATION	TRUMB4	COLD AGGREGATE HANDLING	572.996	4484.777	10.36	219	1.25	14.69	295.22	1.3018	No	5.702
PA	Allegheny	TRUMBULL CORPORATION	TRUMB5	HIGHLIFT	572.996	4484.777	3.96	219	0.03	5.58	295.22	0.0576	No	0.252
PA	Allegheny	TRUMBULL CORPORATION	TRUMB6	ROADWAY FUGITIVE DUST	572.996	4484.777	20.42	219	0.64	6.68	295.22	0.0364	No	0.160
PA	Allegheny	TUBE CITY, INC.	TUBE1	SCRAP METAL SHREDDING	588.990	4467.177	4.57	369	0.91	0.03	294.11	0.0375	No	0.164
PA	Allegheny	TUBE CITY, INC.	TUBE2	SCRAP METAL SHEARING	588.990	4467.177	17.07	369	0.82	8.02	295.22	0.0070	No	0.031
PA	Allegheny	TUBE CITY, INC.	TUBE3	SPACE HEATERS (ALL)	588.990	4467.177	42.37	369	0.40	2.83	295.22	0.0011	No	0.005
PA	Allegheny	TUBE CITY, INC.	TUBE4	ROADWAY TRAFFIC - UNPAVED	588.990	4467.177	40.23	369	1.65	4.97	295.22	0.0045	No	0.020
PA	Allegheny	TUBE CITY, INC.	TUBE5	TORCH CUTTING OPERATIONS	588.990	4467.177	21.94	369	2.26	18.35	295.22	0.0765	No	0.335
PA	Allegheny	TUBE CITY, INC.	TUBE6	ROADWAY TRAFFIC - PAVED	588.990	4467.177	36.88	369	1.19	5.58	295.22	0.0008	No	0.004

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE1	HEATERS, FURNACES, ETC	578.198	4474.283	13.72	235	0.15	0.03	294.11	0.0021	No	0.009
PA	Allegheny	UNION ELECTRIC STEEL CORPORATION	UNELE2	HARDENING FURNACES	578.198	4474.283	9.14	235	0.91	4.31	294.11	0.1020	No	0.447
PA	Allegheny	UNITED REFINING CO.SPRINGDALE ASPHALT TE	UNIREF	BOILER F-2	603.517	4492.188	7.01	232	0.61	4.60	496.89	0.0156	No	0.068
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC1	FACILITY BOILERS	599.293	4488.944	46.02	288	1.31	15.21	477.44	0.1580	No	0.692
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC2	HOT WATER BOILERS	598.895	4488.983	9.14	288	0.76	2.20	516.33	0.0023	No	0.010
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC3	DIESEL EMERG GEN	599.192	4488.876	8.84	288	0.40	23.84	295.22	0.0008	No	0.003
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC4	EMERG GENERATORS NG	599.192	4488.876	7.62	288	0.30	26.58	295.22	0.0095	No	0.042
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC5	GASOLINE VEHICLES	599.192	4488.876	3.05	288	0.20	4.00	295.22	0.0021	No	0.009
PA	Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	UPARC6	DIESEL VEHICLES	599.192	4488.876	3.96	288	0.03	5.58	295.22	0.0019	No	0.009
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL1	ELECTRIC ARC FURNACE G	575.687	4468.263	21.03	250	4.50	14.51	312.44	1.2942	No	5.668
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL10	WARMING FURNACE	575.692	4467.775	15.24	250	0.82	7.86	295.22	0.0222	No	0.097
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL11	ROAD DUST	575.692	4467.775	40.23	250	1.65	4.97	295.22	0.0116	No	0.051
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL12	ROAD DUST	575.692	4467.775	36.88	250	1.19	5.58	295.22	0.0099	No	0.043
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL13	VEHICLE EMISSIONS	575.692	4467.775	3.96	250	0.03	5.58	295.22	0.2444	No	1.070
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL2	ELECTRIC ARC FURNACE G	575.692	4467.775	26.82	250	1.40	6.13	295.22	0.4584	No	2.008
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL3	ELECTRIC ARC FURNACE G	575.692	4467.775	24.99	250	2.44	11.73	295.22	0.3496	No	1.531
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL4	ARGON-OXYGEN DECARB (AOD)	575.692	4467.775	9.14	250	1.40	12.22	295.22	0.2037	No	0.892
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL5	LADLE REHEAT	575.692	4467.775	13.11	250	0.70	5.79	295.22	0.0197	No	0.086
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL6	ELECTRO-SLAG REMELT S	575.692	4467.775	4.57	250	0.70	22.01	291.33	0.0013	No	0.006
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL7	SPACE HEATERS	575.692	4467.775	10.67	250	0.43	6.55	295.22	0.0085	No	0.037
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL8	ANNEALING FURNACES	575.692	4467.775	33.83	250	1.34	10.52	295.22	0.4003	No	1.753
PA	Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	STNL9	LIME SILO	575.692	4467.775	45.72	250	0.40	1.46	295.22	0.0011	No	0.005
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT1	NG BOILERS	588.250	4477.426	23.77	281	1.10	7.59	295.22	0.0820	No	0.359
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT2	DIESEL EMERG GENS	588.250	4477.426	8.84	281	0.40	23.84	295.22	0.0396	No	0.174
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT3	NG EMER HEATERS	588.250	4477.426	7.62	281	0.30	26.58	295.22	0.0007	No	0.003
PA	Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UPITT4	WELDING RODS	588.250	4477.426	3.05	281	0.20	4.00	295.22	0.0003	No	0.001
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO1	MONTEFIORE BOILERS	588.025	4477.068	53.03	305	1.80	8.11	477.44	0.1094	No	0.479
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO2	SCAIFE INCINERATORS	588.106	4477.402	57.60	310	0.91	4.91	583.00	0.0273	No	0.120
PA	Allegheny	UPMC - OAKLAND CAMPUS	UPMCO3	BST INCINERATOR	588.014	4477.301	85.34	310	0.41	12.19	338.56	0.0012	No	0.005
PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE1	BOILERS	588.089	4476.647	36.88	274	0.91	1.31	505.22	0.1131	No	0.495
PA	Allegheny	UPMC MAGEE HOSPITAL	MAGEE2	EMERGENCY GENERATORS	588.097	4476.680	12.19	274	1.04	25.60	613.00	0.0131	No	0.057
PA	Allegheny	UPMC MCKEESPORT	UPMCM1	BOILER #1	597.703	4467.440	15.24	244	0.91	5.64	477.44	0.0175	No	0.077
PA	Allegheny	UPMC MCKEESPORT	UPMCM2	BOILER #2	597.703	4467.440	15.24	244	0.91	5.64	463.56	0.0175	No	0.077
PA	Allegheny	UPMC MCKEESPORT	UPMCM3	EMERGENCY GENERATORS	597.703	4467.440	13.72	244	0.24	32.12	766.33	0.0129	No	0.057
PA	Allegheny	UPMC MCKEESPORT	UPMCM4	GAS FIRED CHILLERS	597.703	4467.440	15.24	244	0.09	28.74	421.89	0.0467	No	0.205
PA	Allegheny	UPMC SHADYSIDE	UPMCS1	MAIN BOILERS	589.913	4478.755	46.02	270	2.10	1.71	560.78	0.1895	No	0.830
PA	Allegheny	UPMC SHADYSIDE	UPMCS2	EAST WING BOILERS	589.192	4478.780	27.43	270	0.41	7.31	505.22	0.0028	No	0.012
PA	Allegheny	UPMC SHADYSIDE	UPMCS3	MEDICAL CENTER BOILERS	589.192	4478.780	4.57	270	0.41	7.31	505.22	0.0052	No	0.023
PA	Allegheny	UPMC SHADYSIDE	UPMCS4	MEDICAL CENTER BOILERS	589.192	4478.780	3.66	234	0.41	7.31	505.22	0.0052	No	0.023
PA	Allegheny	UPMC SHADYSIDE	UPMCS5	EMERGENCY GENERATORS	589.192	4478.780	11.28	270	0.40	8.96	295.22	0.0788	No	0.345
PA	Allegheny	UPMC SOUTHSIDE	UPMSS1	HEATING BOILERS	586.692	4475.676	34.14	234	0.61	0.03	449.67	0.0362	No	0.159
PA	Allegheny	UPMC SOUTHSIDE	UPMSS2	HOSPITAL EMER. GENERATORS	586.692	4475.676	11.28	234	0.40	8.96	295.22	0.0215	No	0.094
PA	Allegheny	US AIRWAYS MAINTENANCE BASE	AIRMNT	HG1-5-1 VEHICLE EXHST	564.894	4483.981	9.14	358	0.30	8.08	294.11	0.0444	No	0.195
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILR1	BOILER 1	595.036	4462.717	57.91	231	2.70	29.59	458.00	5.3048	Yes	23.235
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILR2	BOILER 2	595.021	4462.720	57.91	231	2.10	22.01	423.56	4.1600	Yes	18.221
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILRR	BOILER R1/R2	594.902	4462.606	49.98	231	2.59	7.50	495.78	0.2509	Yes	1.099
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILT1	BOLIER T1	594.855	4462.561	27.13	231	1.50	9.11	495.78	0.0938	Yes	0.411
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BOILT2	BOLIER T2	594.845	4462.569	27.13	231	1.50	9.11	495.78	0.0938	Yes	0.411
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR1	COOLING TOWER 1	595.451	4462.347	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR2	COOLING TOWER 2	595.457	4462.339	22.10	231	10.06	9.50	310.70	0.0142	No	0.062

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR3	COOLING TOWER 3	595.463	4462.329	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR4	COOLING TOWER 4	595.469	4462.320	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CLTWR5	COOLING TOWER 5	595.475	4462.310	22.10	231	10.06	9.50	310.70	0.0142	No	0.062
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB1	BATTERY 1 UNDERFIRING	595.865	4461.841	68.58	231	2.44	7.60	526.30	3.2722	Yes	14.332
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB2	BATTERY 2 UNDERFIRING	595.858	4461.849	68.58	231	2.44	7.71	534.10	4.9274	Yes	21.582
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB3	BATTERY 3 UNDERFIRING	595.742	4461.989	68.58	231	2.44	7.36	539.00	3.0016	Yes	13.147
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB13	BATTERY 13 UNDERFIRING	595.392	4462.162	68.60	231	2.60	6.90	546.30	2.0308	Yes	8.895
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB14	BATTERY 14 UNDERFIRING	595.386	4462.173	68.60	231	2.60	6.90	546.30	2.0051	Yes	8.782
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB15	BATTERY 15 UNDERFIRING	595.263	4462.315	68.60	231	2.60	6.90	546.30	1.7929	Yes	7.853
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB19	BATTERY 19 UNDERFIRING	595.273	4462.117	76.20	231	3.80	6.40	555.70	2.7055	Yes	11.850
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMB20	BATTERY 20 UNDERFIRING	595.258	4462.134	76.20	231	3.80	5.90	542.40	4.0003	Yes	17.521
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMBB	BATTERY B UNDERFIRING	595.475	4462.405	96.00	231	5.50	3.80	491.90	2.9064	Yes	12.730
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COMBC	BATTERY C UNDERFIRING	595.697	4462.198	98.14	232	3.66	5.81	503.20	3.7990	Yes	16.640
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	MOBL	VEHICLE & TUG EXHAUST	595.493	4462.083	8.84	231	0.40	23.84	295.22	2.2877	No	10.020
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PEC1	PEC BAGHOUSE 1-3	595.848	4461.870	24.99	231	1.22	7.14	394.10	0.4455	Yes	1.951
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PEC13	PEC BAGHOUSE 13-15	595.299	4462.223	25.00	231	0.90	17.00	321.00	0.5995	Yes	2.626
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PEC19	PEC BAGHOUSE 19-20	595.294	4462.218	25.00	231	0.90	15.60	314.00	0.6520	Yes	2.856
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PECB	PEC BAGHOUSE B	595.404	4462.447	15.70	231	1.20	13.80	310.00	1.3473	Yes	5.901
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PECC	PEC BAGHOUSE C	595.650	4462.101	30.00	231	2.49	15.10	328.20	1.4010	Yes	6.136
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCH1	QUENCH TOWER 1	595.956	4461.738	30.50	231	3.20	3.60	350.00	62.7500	Yes	274.845
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCH5A	QUENCH TOWER 5A	595.245	4462.337	49.98	231	12.67	3.66	378.00	23.3110	Yes	102.102
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCH7A	QUENCH TOWER 7A	595.213	4462.308	49.98	231	12.67	3.66	378.00	23.4020	Yes	102.501
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCHB	QUENCH TOWER B	595.452	4462.373	41.10	231	9.60	3.60	350.00	77.3950	Yes	338.990
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	QNCHC	QUENCH TOWER C	595.563	4462.237	49.98	231	12.67	3.66	378.00	23.4610	Yes	102.761
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCOT	SCOT STACK	595.571	4462.034	46.02	231	1.20	17.40	638.00	0.7763	No	3.400
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	WWT	WASTEWTR TREATMNT/FLARE	595.271	4462.517	8.00	231	1.10	608.00	1325.00	0.0016	No	0.007
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT1	BATTERIES 1-3 FUGITIVES	595.827	4461.861	8.50	231	--	6.10	1255.00	6.8949	No	30.200
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT13	BATTERIES 13-15 FUGITIVES	595.370	4462.219	8.80	231	--	6.10	1255.00	7.4066	No	32.441
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT19	BATTERIES 19-20 FUGITIVES	595.328	4462.152	10.50	231	--	6.10	1255.00	8.2423	No	36.101
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BBATT	B BATTERY FUGITIVES	595.530	4462.307	15.10	231	--	6.10	1255.00	3.2896	No	14.409
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CBATT	C BATTERY FUGITIVES	595.648	4462.170	15.10	231	--	6.10	1255.00	11.5507	No	50.592
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL1	BALL MILL 1-3	595.840	4461.835	24.99	231	--	--	--	0.0691	No	0.303
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL13	BALL MILL 13-15	595.339	4462.245	24.99	231	--	--	--	0.1033	No	0.452
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL19	BALL MILL 19-20	595.323	4462.165	24.99	231	--	--	--	0.1069	No	0.468
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALLB	BALL MILL B	595.580	4462.230	24.99	231	--	--	--	0.1385	No	0.607
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALLC	BALL MILL C	595.741	4462.067	15.67	231	--	--	--	0.0039	No	0.017
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BLAST	BLASTING	595.488	4462.169	7.55	230	--	--	--	0.0137	No	0.060
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR1	COAL TRANSFER PART1	595.007	4462.713	7.62	231	--	--	--	0.0115	No	0.051
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR2	COAL TRANSFER PART2	595.973	4461.951	7.62	231	--	--	--	0.0115	No	0.051
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR3	COAL TRANSFER PART3	595.490	4462.332	7.62	231	--	--	--	0.0115	No	0.051
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR4	COAL TRANSFER PART4	595.249	4462.523	7.62	231	--	--	--	0.0115	No	0.051
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR5	COAL TRANSFER PART5	595.732	4462.142	7.62	231	--	--	--	0.0115	No	0.051
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CONVEY	CONVEYING/HANDLING	593.994	4463.352	2.23	231	--	--	--	0.0301	No	0.132
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P1	PRIM PULVERIZERS PART1	595.920	4462.007	18.29	230	--	--	--	0.0058	No	0.025
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P2	PRIM PULVERIZERS PART2	595.929	4461.998	18.29	230	--	--	--	0.0058	No	0.025
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P3	PRIM PULVERIZERS PART3	595.937	4461.990	18.29	230	--	--	--	0.0058	No	0.025
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P4	PRIM PULVERIZERS PART4	595.946	4461.981	18.29	230	--	--	--	0.0058	No	0.025
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P1	SEC PULVERIZERS PART1	595.557	4462.388	19.80	231	--	--	--	0.0060	No	0.026
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P2	SEC PULVERIZERS PART2	595.566	4462.379	19.80	231	--	--	--	0.0060	No	0.026
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P3	SEC PULVERIZERS PART3	595.576	4462.370	19.80	231	--	--	--	0.0060	No	0.026

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P4	SEC PULVERIZERS PART4	595.585	4462.360	19.80	231	--	--	--	0.0060	No	0.026
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD1	INDUSTRIAL ROADS 1	595.696	4460.809	1.50	230	--	--	--	0.0556	No	0.243
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD2	INDUSTRIAL ROADS 2	596.090	4461.428	1.70	230	--	--	--	0.0556	No	0.243
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD3	INDUSTRIAL ROADS 3	595.583	4462.051	1.50	230	--	--	--	0.0556	No	0.243
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN1	SCREENING 1	595.766	4461.982	8.50	231	--	--	--	0.1495	No	0.655
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN2	SCREENING 2	595.234	4462.311	8.50	231	--	--	--	0.3745	No	1.640
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN4	SCREENING 4	595.708	4462.053	12.19	231	--	--	--	0.0593	No	0.259
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA1	UNLOADING 1	595.818	4462.154	12.19	231	--	--	--	0.0239	No	0.105
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA2	UNLOADING 2	595.380	4462.554	8.99	231	--	--	--	0.0175	No	0.077
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER1	COKE STORAGE/EROS PART1	594.986	4461.696	13.72	232	--	--	--	0.0443	No	0.194
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER2	COKE STORAGE/EROS PART2	594.986	4461.696	13.72	232	--	--	--	0.0443	No	0.194
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER3	COKE STORAGE/EROS PART3	594.986	4461.696	13.72	232	--	--	--	0.0443	No	0.194
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER4	COKE STORAGE/EROS PART4	594.986	4461.696	13.72	232	--	--	--	0.0443	No	0.194
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER5	COKE STORAGE/EROS PART5	594.986	4461.696	13.72	232	--	--	--	0.0443	No	0.194
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR1	COKE TRANSFER PART1	594.647	4461.567	13.72	232	--	--	--	0.1237	No	0.542
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR2	COKE TRANSFER PART2	594.647	4461.567	13.72	232	--	--	--	0.1237	No	0.542
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR3	COKE TRANSFER PART3	594.647	4461.567	13.72	232	--	--	--	0.1237	No	0.542
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR4	COKE TRANSFER PART4	594.647	4461.567	13.72	232	--	--	--	0.1237	No	0.542
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR5	COKE TRANSFER PART5	594.647	4461.567	13.72	232	--	--	--	0.1237	No	0.542
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER1	COAL STORAGE/EROS PART1	594.322	4462.945	15.24	232	--	--	--	0.0001	No	0.000
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER2	COAL STORAGE/EROS PART2	594.322	4462.945	15.24	232	--	--	--	0.0001	No	0.000
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER3	COAL STORAGE/EROS PART3	594.322	4462.945	15.24	232	--	--	--	0.0001	No	0.000
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER4	COAL STORAGE/EROS PART4	594.322	4462.945	15.24	232	--	--	--	0.0001	No	0.000
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV1	BOILER #1	593.084	4465.172	21.03	287	1.10	10.24	513.56	0.3847	Yes	1.685
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV2	BOILER #2	593.105	4465.517	22.86	287	1.30	7.99	513.56	0.3404	Yes	1.491
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV3	BOILER #3-4	593.316	4465.586	29.87	287	3.10	9.69	644.11	0.1843	Yes	0.807
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV4	80 INCH MILL REHEAT	593.151	4465.906	21.33	287	1.98	29.44	508.00	5.0092	Yes	21.941
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV5	84 INCH PICKLING LINE	593.291	4465.575	35.05	287	1.37	15.31	327.44	0.6482	Yes	2.839
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV6	COLD REDUCTION MILL	593.291	4465.575	26.21	287	1.34	5.39	382.44	4.1788	Yes	18.303
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV7	COLD REDUCTION MILL	593.192	4465.385	26.21	287	1.34	5.39	295.22	0.8334	No	3.651
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV8	#1 GALV. LINE PREHEAT	593.294	4465.375	25.60	287	1.42	0.03	944.11	0.1435	Yes	0.629
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV9	#2 GALV. LINE PREHEAT	593.294	4465.375	26.82	287	1.37	0.03	944.11	0.1149	Yes	0.503
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV10	HPH ANNEALING FCES	593.291	4465.575	16.76	287	0.76	2.44	644.11	0.3849	Yes	1.686
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV11	OPEN COIL ANNEALING	593.227	4465.241	20.12	287	3.00	0.40	478.00	0.1816	Yes	0.795
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV12	CONTINUOUS ANNEALING	593.202	4465.895	25.91	287	1.10	4.21	478.00	0.0808	Yes	0.354
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV13	TERNE LINE, NATURAL GAS	593.291	4465.575	33.83	287	1.34	10.52	473.00	0.0121	Yes	0.053
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV14	TERNE LINE PROCESS	593.291	4465.575	23.77	287	1.37	8.29	404.67	0.5510	Yes	2.413
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV15	PAVED ROADS	593.192	4465.385	36.88	287	1.19	5.58	295.22	0.0008	No	0.004
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV16	UNPAVED ROADS	593.192	4465.385	40.23	287	1.65	4.97	295.22	0.0149	No	0.065
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV17	MISCELLANEOUS NATURAL GAS	593.192	4465.385	15.24	287	0.82	7.86	295.22	0.2856	No	1.251
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV18	64 INCH PICKLING LINE	593.291	4465.575	15.54	287	0.76	12.40	328.00	0.4954	Yes	2.170
PA	Allegheny	US STEEL CORPORATION - IRVIN	IRV19	COOLING TOWER	593.192	4465.385	9.14	287	4.33	9.05	295.22	0.5722	No	2.506
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET1	RILEY BOILER #1	597.066	4471.939	49.98	233	4.20	12.50	509.11	36.2013	Yes	158.562
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET2	RILEY BOILER #2	597.049	4471.961	49.98	233	4.21	12.53	509.11	77.7208	Yes	340.417
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET3	BF STOVE #1	597.184	4472.007	53.03	233	3.30	9.51	492.44	20.4842	Yes	89.721
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET4	BF CASTHOUSE ROOF MONS	596.693	4471.879	39.62	233	2.32	9.27	295.22	3.0267	No	13.257
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET5	BF STOVE #3	597.022	4472.039	56.99	233	2.59	15.21	492.44	18.3599	Yes	80.416
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET6	BF CASTHOUSE BAGHOUSES	597.134	4471.951	21.03	233	3.51	14.00	290.22	3.9033	No	17.096
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET7	BFG FLARE	597.090	4472.051	53.03	233	3.30	9.51	493.00	1.7449	Yes	7.643
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET8	BF SLAG HANDLING	596.693	4471.879	31.09	233	1.95	9.33	295.22	0.0136	No	0.059

State	County	Facility Name	ID	Process	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	Bldg Dwnwsh Dim	PM25 (TPY)
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET9	HM MIXER & DESULF BAGHSE	596.493	4472.276	14.63	233	0.73	11.01	320.22	1.2409	No	5.435
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET10	BOP SECONDARY BAGHOUSE	596.741	4472.113	27.13	233	1.70	17.71	316.89	0.5533	No	2.424
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET11	BOP VENTURI SCRUBBER F	596.595	4472.277	54.86	233	3.05	10.36	314.67	34.2820	No	150.155
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET12	LADLE METALLURGY BAGHOUSE	596.738	4472.276	15.24	233	0.76	17.83	319.11	0.0602	No	0.264
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET13	FLUX UNLOADING BAGHOUSE	597.090	4472.050	7.92	233	2.25	0.79	292.44	0.0332	No	0.145
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET14	FLUX TRANSFER TOWER	597.191	4472.050	3.05	233	2.25	1.11	292.44	0.0167	No	0.073
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET15	FLUX FINAL TRANSFER #1	597.293	4472.050	52.73	233	2.57	1.33	292.44	0.0513	No	0.225
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET16	FLUX FINAL TRANSFER #2	597.090	4472.050	52.73	233	2.94	0.66	292.44	0.0513	No	0.225
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET17	BOP BUILDING FUGITIVES	597.092	4471.884	29.26	233	2.01	11.03	447.44	1.5454	No	6.769
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET18	BOP SLAG PROCESSING	596.693	4471.879	36.27	233	2.38	6.00	295.22	0.0132	No	0.058
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET19	BOP SLAG PROCESSING	596.693	4471.879	8.84	233	1.01	16.34	295.22	0.0050	No	0.022
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET20	BOP PROCESS FUEL	597.092	4471.884	41.76	233	2.04	9.97	501.89	0.3131	No	1.372
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET21	BOP PROCESS FUEL	597.092	4471.884	15.24	233	0.82	7.86	462.44	0.2384	No	1.044
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET22	PAVED ROADS	596.693	4471.879	36.88	233	1.19	5.58	295.22	0.0049	No	0.021
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET23	UNPAVED ROADS	596.693	4471.879	40.23	233	1.65	4.97	295.22	0.0764	No	0.335
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET24	STORAGE PILES	596.693	4471.879	45.72	233	2.26	8.63	295.22	0.0810	No	0.355
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET25	CASTER/LMF	596.693	4471.879	73.15	233	2.38	3.35	295.22	0.0145	No	0.064
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET26	CASTER/LMF	596.693	4471.879	16.15	233	0.91	10.30	295.22	0.0845	No	0.370
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET27	BF SLIPS	596.693	4471.879	49.38	233	2.41	10.30	295.22	0.0576	No	0.252
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET28	BF FUME SUPPRESSION	596.693	4471.879	41.76	233	2.04	9.97	295.22	0.0258	No	0.113
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET29	BF RAW MAT'L HANDLING	596.693	4471.879	44.50	233	2.23	8.90	295.22	0.0471	No	0.206
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET30	VACUUM DEGASSER	597.293	4472.050	29.26	233	2.01	11.03	447.44	0.0955	No	0.418
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET31	PLANT WIDE MISC COMB	596.693	4471.879	15.24	233	0.82	7.86	295.22	0.1398	No	0.613
PA	Allegheny	US STEEL CORPORATION - EDGAR THOMSON	ET32	COOLING TOWERS	596.693	4471.879	9.14	233	4.33	9.05	295.22	7.7905	No	34.123
PA	Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	VAASPN	BOILERS #1-4	594.307	4483.372	25.91	283	0.51	7.07	449.67	0.0390	No	0.171
PA	Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	VAHIGH	BOILERS #1-3	594.692	4481.079	18.90	307	0.91	5.00	533.00	0.0486	No	0.213
PA	Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	VAOAK1	BOILERS #1-3	588.032	4477.867	45.72	344	2.60	4.69	421.89	0.0722	No	0.316
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL1	BOILER NO. 2	574.797	4484.284	10.06	213	0.91	7.31	505.22	0.0901	No	0.395
PA	Allegheny	VALLEY PROTEINS (PA), INC.	VALL2	MEAL LOADOUT	574.797	4484.284	10.36	213	0.27	5.70	295.22	0.0261	No	0.114
PA	Allegheny	VORTEC U-PARC PROCESS TEST FACILITY	VORTC1	VORTEC PILOT TEST FACILTY	598.791	4488.504	21.33	283	0.40	9.94	349.67	0.0001	No	0.001
PA	Allegheny	WATSON STANDARD COMPANY - NEVILLE ISLAND	WATSN	PIGMENT HANDLING	588.250	4477.426	8.84	222	0.58	8.44	295.22	0.1708	No	0.748
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN1	HOT WATER BOILERS	593.192	4479.684	28.95	273	2.13	0.03	533.00	0.0132	No	0.058
PA	Allegheny	WESTINGHOUSE SCHOOL	WESTN2	GAS FIRED WATER HEATERS	593.396	4479.675	28.95	273	2.13	0.03	533.00	0.0008	No	0.003
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA1	BUILDING ROOF FANS	590.591	4471.781	21.33	228	1.83	0.03	294.11	0.0470	No	0.206
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA2	STACK FROM FURNACES	590.591	4471.781	24.38	228	1.22	0.03	533.00	0.0184	No	0.081
PA	Allegheny	WHEMCO - HAYS PLANT	WHMHA3	PLANT FUGITIVES	590.591	4471.781	9.45	228	0.98	10.79	295.22	0.0132	No	0.058
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO1	VIRTUAL FOR P001-P006	591.441	4472.689	18.29	226	0.03	0.03	294.11	0.0442	No	0.194
PA	Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	WHMCO2	PLANT FUGITIVES	591.441	4472.689	23.77	226	1.10	7.59	295.22	0.0012	No	0.005
PA	Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	WINTHP	FUEL BURNING BOILERS	586.197	4478.179	3.05	230	1.07	6.77	521.89	0.1314	No	0.576

Additional Parameters (for volume sources)					**Initial Sigma y (m)**	**Initial Sigma z (m)**							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL1	BALL MILL 1-3	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL13	BALL MILL 13-15	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALL19	BALL MILL 19-20	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALLB	BALL MILL B	5.81	4.39							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BALLC	BALL MILL C	3.64	5.11							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BLAST	BLASTING	6.37	7.02							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR1	COAL TRANSFER PART1	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR2	COAL TRANSFER PART2	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR3	COAL TRANSFER PART3	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR4	COAL TRANSFER PART4	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLTR5	COAL TRANSFER PART5	2.05	7.09							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CONVEY	CONVEYING/HANDLING	3.38	2.07							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	LOADB	LOADOUT B	4.70	15.90							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P1	PRIM PULVERIZERS PART1	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P2	PRIM PULVERIZERS PART2	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P3	PRIM PULVERIZERS PART3	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV1P4	PRIM PULVERIZERS PART4	5.67	17.01							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P1	SEC PULVERIZERS PART1	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P2	SEC PULVERIZERS PART2	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P3	SEC PULVERIZERS PART3	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	PLV2P4	SEC PULVERIZERS PART4	5.00	18.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD1	INDUSTRIAL ROADS 1	30.70	1.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD2	INDUSTRIAL ROADS 2	30.70	1.60							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	ROAD3	INDUSTRIAL ROADS 3	69.80	1.40							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN1	SCREENING 1	7.12	7.91							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN2	SCREENING 2	7.12	7.91							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	SCRN4	SCREENING 4	2.50	11.34							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA1	UNLOADING 1	2.50	11.34							
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	UNLOA2	UNLOADING 2	2.00	8.36							
Additional Parameters (for area sources)					**Initial Sigma z (m)**	**UTMx1 (km)**	**UTMy1 (km)**	**UTMx2 (km)**	**UTMy2 (km)**	**UTMx3 (km)**	**UTMy3 (km)**	**UTMx4 (km)**	**UTMy4 (km)**
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER1	COKE STORAGE/EROS PART1	0.00	594.867	4461.713	594.917	4461.713	594.917	4461.563	594.867	4461.563
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER2	COKE STORAGE/EROS PART2	0.00	594.917	4461.763	594.967	4461.763	594.967	4461.563	594.917	4461.563
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER3	COKE STORAGE/EROS PART3	0.00	594.967	4461.813	595.017	4461.813	595.017	4461.613	594.967	4461.613
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER4	COKE STORAGE/EROS PART4	0.00	595.017	4461.663	595.167	4461.663	595.167	4461.613	595.017	4461.613
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKER5	COKE STORAGE/EROS PART5	0.00	595.017	4461.863	595.217	4461.863	595.217	4461.663	595.017	4461.663
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR1	COKE TRANSFER PART1	0.00	594.317	4461.514	594.617	4461.514	594.617	4461.464	594.317	4461.464
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR2	COKE TRANSFER PART2	0.00	594.317	4461.564	594.767	4461.564	594.767	4461.514	594.317	4461.514
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR3	COKE TRANSFER PART3	0.00	594.367	4461.614	594.817	4461.614	594.817	4461.564	594.367	4461.564
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR4	COKE TRANSFER PART4	0.00	594.417	4461.664	594.867	4461.664	594.867	4461.614	594.417	4461.614
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COKTR5	COKE TRANSFER PART5	0.00	594.667	4461.714	594.917	4461.714	594.917	4461.664	594.667	4461.664
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER1	COAL STORAGE/EROS PART1	0.00	594.018	4463.213	594.118	4463.213	594.118	4463.113	594.018	4463.113
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER2	COAL STORAGE/EROS PART2	0.00	594.118	4463.113	594.218	4463.113	594.218	4463.013	594.118	4463.013
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER3	COAL STORAGE/EROS PART3	0.00	594.218	4463.013	594.368	4463.013	594.368	4462.913	594.218	4462.913
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	COLER4	COAL STORAGE/EROS PART4	0.00	594.368	4462.913	594.518	4462.913	594.518	4462.763	594.368	4462.763

Additional Parameters (for buoyant line sources)					**UTMx1 (km)**	**UTMy1 (km)**	**UTMx2 (km)**	**UTMy2 (km)**	**Line Length (m)**	**Bldg Ht (m)**	**Line Width (m)**	**Bldg Width (m)**	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT1	BATTERIES 1-3 FUGITIVES	595.724	4461.977	595.920	4461.764	291.00	8.50	0.231	13.70	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT13	BATTERIES 13-15 FUGITIVES	595.273	4462.326	595.463	4462.113	277.00	8.80	0.276	14.00	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT19	BATTERIES 19-20 FUGITIVES	595.235	4462.254	595.398	4462.066	254.00	10.50	0.280	14.00	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BBATT	B BATTERY FUGITIVES	595.498	4462.346	595.575	4462.254	118.00	15.10	0.677	13.70	
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CBATT	C BATTERY FUGITIVES	595.612	4462.214	595.693	4462.126	118.00	15.10	0.677	13.70	
Additional Parameters (for buoyant line sources)					**Amb Temp (K)**	**Line Flow (m3/s)**	**Emis. Buoy. (m4/s3)**	**Surf. Buoy. (m4/s3)**	**TOTAL Buoy. (m4/s3)**				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT1	BATTERIES 1-3 FUGITIVES	298.00	409.92	3066	3532	6598				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT13	BATTERIES 13-15 FUGITIVES	298.00	467.04	3494	3414	6908				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BATT19	BATTERIES 19-20 FUGITIVES	298.00	434.39	3250	3218	6468				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	BBATT	B BATTERY FUGITIVES	298.00	486.96	3643	2708	6351				
PA	Allegheny	US STEEL CORPORATION - CLAIRTON	CBATT	C BATTERY FUGITIVES	298.00	486.96	3643	2708	6351				

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
Pennsylvania Sources (w/o EGUs)												
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN1	640.162	4500.738	7.62	425	0.61	13.58	533.00	0.0072	0.032
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN2	640.162	4500.738	17.37	425	3.49	18.82	662.44	2.1918	9.600
PA	Armstrong	DLR MINING INC/TRIPLE K #1 DEEP MINE	DLRMIN	629.518	4503.354	8.53	256	0.38	22.38	603.56	0.0457	0.200
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR1	638.919	4499.826	10.36	325	0.30	27.00	688.56	0.1370	0.600
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR2	638.919	4499.826	10.06	325	0.30	22.90	533.00	0.0457	0.200
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR3	638.919	4499.826	9.14	325	0.49	20.86	632.44	0.1142	0.500
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL1	637.874	4516.864	7.31	331	0.21	24.40	810.78	0.0228	0.100
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL2	637.874	4516.864	9.45	331	0.30	26.70	666.33	0.0685	0.300
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL3	637.874	4516.864	9.14	331	0.49	20.86	632.44	0.1382	0.605
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL4	637.874	4516.864	9.45	331	0.30	23.10	560.78	0.0457	0.200
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB1	638.919	4499.826	7.92	325	0.52	28.90	588.56	0.0457	0.200
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB2	638.919	4499.826	7.92	325	0.52	27.30	588.56	0.0457	0.200
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB3	638.919	4499.826	7.92	325	0.52	26.80	588.56	0.0457	0.200
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB4	638.919	4499.826	7.92	325	0.52	27.60	588.56	0.0228	0.100
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB5	638.919	4499.826	7.92	325	0.52	26.00	588.56	0.0228	0.100
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB6	638.919	4499.826	7.92	325	0.61	1.62	449.67	0.0228	0.100
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR1	624.097	4515.065	7.62	238	0.76	28.61	385.78	0.0479	0.210
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR2	624.097	4515.065	17.98	238	0.46	1.76	560.78	0.0140	0.061
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR3	624.097	4515.065	17.07	238	0.46	1.76	560.78	0.0271	0.119
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR4	624.097	4515.065	21.64	238	0.76	1.53	560.78	0.0320	0.140
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR5	624.097	4515.065	9.45	238	0.61	1.92	560.78	0.0822	0.360
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR6	624.097	4515.065	8.53	238	0.61	2.04	560.78	0.0297	0.130
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR7	624.097	4515.065	8.84	238	0.61	1.67	560.78	0.0274	0.120
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR8	624.097	4515.065	10.06	238	0.91	0.26	560.78	0.0137	0.060
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR9	624.097	4515.065	13.11	238	1.22	0.21	560.78	0.0411	0.180
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR10	624.097	4515.065	14.32	238	1.22	0.31	560.78	0.0228	0.100
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR11	624.097	4515.065	7.62	238	0.46	21.56	294.11	2.0548	9.000
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR12	624.097	4515.065	8.23	238	0.61	12.13	294.11	0.9132	4.000
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR13	624.097	4515.065	10.97	238	0.30	19.40	294.11	0.3539	1.550
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR14	624.097	4515.065	10.67	238	0.73	10.26	324.11	2.2900	10.030
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR15	624.097	4515.065	8.53	238	0.46	14.37	294.11	0.4658	2.040
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR16	624.097	4515.065	0.61	238	0.01	0.00	295.22	0.0845	0.370
PA	Armstrong	EQUITABLE GAS CO/SHOEMAKER	EQSHM	622.399	4512.627	5.49	245	0.61	21.64	621.89	0.0758	0.332
PA	Armstrong	EQUITABLE GAS CO/VILLAGE STATION	EQVIL	639.997	4516.215	8.23	420	0.44	17.46	668.56	0.0118	0.052
PA	Armstrong	EQUITRANS INC/CROOKED CREEK COMPRES S	EQTNCC	623.998	4508.412	6.10	254	0.91	2.60	533.00	0.2078	0.910
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP1	610.750	4504.472	10.97	239	0.94	26.59	483.00	0.2282	0.999
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP2	610.750	4504.472	7.62	239	0.01	0.00	295.22	0.0202	0.089
PA	Armstrong	KEYSTONE COAL MINING/KEYSTONE	KEYCO	639.689	4502.517	22.86	305	0.01	0.00	295.22	2.0468	8.965
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR1	628.861	4532.747	12.50	430	0.59	6.38	490.78	0.0068	0.030

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR2	628.861	4532.747	13.11	430	1.10	13.79	456.33	0.0819	0.359
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR3	628.861	4532.747	9.45	430	0.77	8.67	565.22	0.0553	0.242
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR4	628.861	4532.747	12.50	430	0.67	17.22	308.00	0.0416	0.182
PA	Armstrong	NATL FUEL GAS SUPPLY/KAYLOR STA	NATFG	616.437	4533.506	8.23	401	0.44	17.46	668.56	0.0137	0.060
PA	Armstrong	VISTA METALS/KITTANNING PLT	VISTA	621.796	4518.958	6.10	359	0.01	0.00	295.22	0.0303	0.133
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH1	560.718	4504.582	0.61	226	0.01	0.00	295.22	0.5770	2.527
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH2	560.718	4504.582	30.48	226	1.52	1.32	699.67	8.9885	39.370
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH3	560.718	4504.582	12.19	226	0.01	0.00	295.22	0.1037	0.454
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH4	560.718	4504.582	15.85	226	0.69	10.52	335.78	0.1390	0.609
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH5	560.718	4504.582	30.48	226	1.52	8.97	473.56	0.0228	0.100
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH6	560.718	4504.582	11.28	226	0.54	6.31	500.22	0.0267	0.117
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH7	560.718	4504.582	17.68	226	0.98	11.38	465.78	0.0100	0.044
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW1	557.038	4511.680	18.29	237	0.70	7.94	421.89	0.0457	0.200
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW2	557.038	4511.680	12.50	237	0.72	7.17	314.67	2.5342	11.100
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW3	557.038	4511.680	0.61	237	0.01	0.00	295.22	0.0457	0.200
PA	Beaver	BASF CORP/MONACA PLT	BASFM1	555.301	4501.276	12.19	227	0.09	1.44	294.11	0.0117	0.051
PA	Beaver	BASF CORP/MONACA PLT	BASFM2	555.301	4501.276	12.19	227	1.98	8.28	1060.78	0.0013	0.006
PA	Beaver	CENTRIA/CENTRIA	CNTRA	567.555	4508.227	26.21	231	0.76	1.03	477.44	0.0251	0.110
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM1	557.403	4504.911	14.93	236	1.43	4.47	449.67	0.0457	0.200
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM2	557.403	4504.911	14.93	236	0.61	24.68	449.67	0.0228	0.100
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM3	557.403	4504.911	9.75	236	0.72	7.16	325.78	0.0068	0.030
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL1	548.126	4517.856	8.23	277	0.98	12.73	538.56	0.8219	3.600
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL2	548.126	4517.856	13.11	277	1.10	13.79	456.33	0.1963	0.860
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB1	563.302	4513.740	9.45	330	0.61	12.94	505.22	0.0026	0.011
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB2	563.302	4513.740	15.85	330	0.91	7.19	644.11	0.6621	2.900
PA	Beaver	ENGINEERED POLYMER S/ROCHESTER	ENGPL	561.882	4514.961	10.36	361	1.06	7.93	390.78	0.3618	1.585
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS1	556.078	4502.403	83.82	238	3.35	23.50	421.89	1.6895	7.400
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS2	556.078	4502.403	31.39	238	2.22	3.64	320.22	0.0913	0.400
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS3	556.078	4502.403	30.48	238	0.55	16.40	294.11	0.0936	0.410
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS4	556.078	4502.403	18.29	238	1.83	5.39	311.33	0.1598	0.700
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS5	556.078	4502.403	121.91	238	5.39	12.00	365.22	1.5710	6.881
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS6	556.078	4502.403	15.24	238	0.30	5.98	294.11	0.0043	0.019
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS7	556.078	4502.403	34.14	238	1.52	7.76	366.33	0.2740	1.200
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS8	556.078	4502.403	19.20	238	0.40	15.10	338.56	0.0260	0.114
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS9	556.078	4502.403	19.20	238	0.40	6.58	338.56	0.0116	0.051
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS10	556.078	4502.403	60.96	238	3.35	12.10	344.11	0.5568	2.439
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS11	556.078	4502.403	36.88	238	2.13	16.50	352.44	0.4653	2.038
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS12	556.078	4502.403	31.70	238	2.07	14.00	321.89	2.0744	9.086
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS13	556.078	4502.403	31.70	238	2.07	19.60	349.67	0.7032	3.080
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS14	556.078	4502.403	31.09	238	1.83	17.30	294.11	0.5461	2.392

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PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS15	556.078	4502.403	16.46	238	0.58	17.90	294.11	0.0685	0.300
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS16	556.078	4502.403	12.80	238	0.79	6.22	294.11	0.0913	0.400
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS17	556.078	4502.403	13.72	238	1.43	14.60	294.11	0.3653	1.600
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS18	556.078	4502.403	22.86	238	1.07	18.50	471.89	0.1169	0.512
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS19	556.078	4502.403	22.86	238	1.68	8.06	394.11	0.1169	0.512
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS20	556.078	4502.403	22.86	238	1.22	14.20	355.22	0.1169	0.512
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS21	556.078	4502.403	21.94	238	0.91	28.80	394.11	0.3041	1.332
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS22	556.078	4502.403	20.73	238	1.24	19.91	370.78	0.1498	0.656
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS23	556.078	4502.403	14.63	238	1.31	25.30	394.11	0.2703	1.184
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS24	556.078	4502.403	12.80	238	1.31	25.30	394.11	0.1352	0.592
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS25	556.078	4502.403	19.20	238	0.55	14.80	294.11	0.0342	0.150
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS26	556.078	4502.403	7.92	238	0.46	7.19	338.56	0.0114	0.050
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS27	556.078	4502.403	18.29	238	1.01	17.80	294.11	0.3493	1.530
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS28	556.078	4502.403	13.41	238	0.30	23.50	294.11	0.0616	0.270
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS29	556.078	4502.403	18.29	238	0.91	11.20	294.11	0.0685	0.300
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS30	556.078	4502.403	19.51	238	1.52	9.06	394.11	0.1826	0.800
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL1	545.577	4498.790	14.02	233	0.91	13.03	438.56	0.1575	0.690
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL2	545.577	4498.790	11.28	233	0.56	6.28	493.56	0.0048	0.021
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL3	545.577	4498.790	25.91	233	3.75	9.10	349.67	1.6042	7.026
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL4	545.577	4498.790	4.57	233	0.91	10.93	294.11	0.2442	1.069
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL5	545.577	4498.790	17.37	233	0.87	7.80	550.78	0.1592	0.697
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL6	545.577	4498.790	17.68	233	1.07	10.92	400.78	3.4452	15.090
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL7	545.577	4498.790	17.37	233	0.90	5.79	316.89	1.2371	5.418
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL8	545.577	4498.790	17.68	233	1.04	8.42	497.44	0.1553	0.680
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA1	557.457	4520.775	38.10	238	3.29	0.17	699.67	0.1210	0.530
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA2	557.457	4520.775	16.46	238	1.22	0.04	755.22	0.0731	0.320
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA3	557.457	4520.775	17.37	238	0.87	7.80	550.78	0.0753	0.330
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA4	557.457	4520.775	17.68	238	0.98	11.38	465.78	0.0571	0.250
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA5	557.457	4520.775	17.68	238	1.07	10.92	400.78	0.0365	0.160
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA6	557.457	4520.775	19.51	238	0.61	10.92	755.22	0.0057	0.025
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA7	557.457	4520.775	11.28	238	0.54	6.31	500.22	5.1920	22.741
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK1	557.466	4520.731	16.46	277	1.22	4.29	755.22	0.0434	0.190
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK2	557.466	4520.731	16.46	277	1.22	3.10	755.22	0.0160	0.070
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK3	557.466	4520.731	30.48	277	3.05	17.43	338.56	0.0822	0.360
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK4	557.466	4520.731	14.32	277	0.63	9.05	320.78	0.1050	0.460
PA	Beaver	NGC IND/SHIPPINGPORT	NGC1	549.334	4497.294	9.14	240	0.61	16.17	449.67	0.6918	3.030
PA	Beaver	NGC IND/SHIPPINGPORT	NGC2	549.334	4497.294	17.68	240	0.98	11.38	465.78	0.6256	2.740
PA	Beaver	NGC IND/SHIPPINGPORT	NGC3	549.334	4497.294	17.98	240	0.52	11.87	294.11	0.8699	3.810
PA	Beaver	NGC IND/SHIPPINGPORT	NGC4	549.334	4497.294	17.98	240	0.52	3.96	294.11	0.2877	1.260
PA	Beaver	NGC IND/SHIPPINGPORT	NGC5	549.334	4497.294	17.98	240	0.46	14.09	294.11	0.8037	3.520

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PA	Beaver	NGC IND/SHIPPINGPORT	NGC6	549.334	4497.294	13.72	240	0.46	18.97	294.11	1.0799	4.730
PA	Beaver	NGC IND/SHIPPINGPORT	NGC7	549.334	4497.294	18.29	240	0.30	5.17	294.11	0.1347	0.590
PA	Beaver	NGC IND/SHIPPINGPORT	NGC8	549.334	4497.294	0.61	240	0.01	0.00	295.22	2.1621	9.470
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK1	562.994	4501.215	17.68	217	1.04	8.42	497.44	0.0195	0.086
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK2	562.994	4501.215	0.61	217	0.01	0.00	295.22	0.4726	2.070
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA1	554.452	4500.526	12.19	230	1.46	21.90	510.78	0.0830	0.364
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA2	554.452	4500.526	30.17	230	0.61	3.03	1255.22	0.0008	0.004
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA3	554.452	4500.526	0.61	230	0.01	0.00	295.22	0.5853	2.563
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA4	554.452	4500.526	9.45	230	0.44	5.44	326.33	0.2208	0.967
PA	Beaver	SCA PKG NORTH AMERICA /NEW BRIGHTN FAC	SCAPKG	558.798	4510.106	7.62	237	0.61	5.87	488.56	0.0457	0.200
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP1	543.843	4493.285	20.73	231	0.46	28.75	294.11	1.2016	5.263
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP2	543.843	4493.285	3.05	231	0.01	0.00	295.22	0.1410	0.618
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP3	543.843	4493.285	30.17	231	0.61	18.05	333.00	1.5681	6.868
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP4	543.843	4493.285	16.46	231	2.59	15.31	368.00	0.1152	0.505
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP5	543.843	4493.285	17.68	231	0.98	11.38	465.78	1.1584	5.074
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP6	543.843	4493.285	30.48	231	1.55	15.72	377.44	4.5530	19.942
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP7	543.843	4493.285	7.62	231	0.27	15.97	588.56	0.0055	0.024
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF1	546.953	4497.933	17.68	237	1.07	10.92	400.78	0.0913	0.400
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF2	546.953	4497.933	7.92	237	0.69	14.18	302.44	0.7306	3.200
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF3	546.953	4497.933	12.19	237	1.83	21.56	366.33	1.0936	4.790
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF4	546.953	4497.933	0.61	237	0.01	0.00	295.22	0.1347	0.590
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST1	589.150	4520.346	17.68	296	1.22	1.55	533.00	0.0753	0.330
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST2	589.150	4520.346	9.14	296	0.91	4.41	533.00	0.0639	0.280
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST3	589.150	4520.346	19.51	296	1.52	3.54	505.22	0.0776	0.340
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST4	589.150	4520.346	19.51	296	1.52	4.54	505.22	0.0776	0.340
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST5	589.150	4520.346	19.51	296	1.52	5.78	505.22	0.1187	0.520
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST6	589.150	4520.346	4.57	296	0.61	7.75	494.11	0.0708	0.310
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST7	589.150	4520.346	11.28	296	0.56	6.28	493.56	2.2306	9.770
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST8	589.150	4520.346	18.29	296	0.61	12.90	321.89	0.3584	1.570
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST9	589.150	4520.346	19.81	296	2.74	11.20	299.67	3.6324	15.910
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST10	589.150	4520.346	22.25	296	1.75	7.53	645.22	0.8493	3.720
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST11	589.150	4520.346	45.72	296	1.16	25.40	1079.67	0.3151	1.380
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST12	589.150	4520.346	15.24	296	0.98	13.42	310.78	0.2900	1.270
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST13	589.150	4520.346	19.51	296	0.76	17.10	310.78	0.7055	3.090
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST14	589.150	4520.346	16.76	296	0.76	15.52	310.78	0.3311	1.450
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST15	589.150	4520.346	17.37	296	0.90	5.79	316.89	4.0982	17.950
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST16	589.150	4520.346	16.46	296	0.91	12.94	310.78	0.2649	1.160
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST17	589.150	4520.346	20.42	296	0.61	13.75	310.78	0.1096	0.480
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST18	589.150	4520.346	23.47	296	10.67	3.96	394.11	1.2215	5.350
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST19	589.150	4520.346	24.08	296	1.34	6.64	471.33	0.2009	0.880

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PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST20	589.150	4520.346	30.48	296	0.01	0.00	295.22	0.2092	0.917
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST21	589.150	4520.346	32.92	296	2.00	11.16	470.22	0.4817	2.110
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST22	589.150	4520.346	0.61	296	0.01	0.00	295.22	0.6864	3.007
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST23	589.150	4520.346	7.31	296	0.55	9.36	296.89	1.4452	6.330
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST24	589.150	4520.346	17.68	296	1.04	8.42	497.44	0.2717	1.190
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC1	609.655	4516.791	53.34	295	3.66	17.80	513.56	5.4977	24.080
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC2	609.655	4516.791	27.43	295	0.30	16.17	294.11	0.0411	0.180
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC3	609.655	4516.791	22.86	295	0.91	30.19	294.11	0.0287	0.126
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC4	609.655	4516.791	12.19	295	0.61	9.70	294.11	0.0287	0.126
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC5	609.655	4516.791	6.10	295	0.91	23.43	366.33	3.1164	13.650
PA	Butler	BASF EVANS CITY OPS	BASFE1	584.284	4522.587	0.61	330	0.01	0.00	295.22	0.9772	4.280
PA	Butler	BASF EVANS CITY OPS	BASFE2	584.284	4522.587	15.54	330	0.47	6.99	345.78	0.0525	0.230
PA	Butler	BASF EVANS CITY OPS	BASFE3	584.284	4522.587	10.67	330	0.15	13.61	294.11	0.0525	0.230
PA	Butler	BASF EVANS CITY OPS	BASFE4	584.284	4522.587	9.14	330	0.91	7.91	294.11	0.1005	0.440
PA	Butler	BASF EVANS CITY OPS	BASFE5	584.284	4522.587	3.96	330	0.46	12.82	449.67	0.0274	0.120
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ1	571.795	4516.016	11.89	275	0.51	13.33	301.33	1.0388	4.550
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ2	571.795	4516.016	7.31	275	0.61	17.01	294.11	0.0023	0.010
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ3	571.795	4516.016	15.54	275	0.88	9.95	453.00	0.0526	0.230
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ4	571.795	4516.016	21.33	275	0.98	10.74	463.56	0.4326	1.895
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ5	571.795	4516.016	13.11	275	1.10	13.79	456.33	0.6290	2.755
PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL1	594.788	4524.591	7.62	309	0.61	16.50	596.89	1.6210	7.100
PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL2	594.788	4524.591	4.57	309	0.76	19.92	471.89	1.2511	5.480
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR1	597.798	4525.208	2.44	318	0.55	3.49	413.56	0.0336	0.147
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR2	597.798	4525.208	0.91	318	0.30	11.32	293.00	0.3452	1.512
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR3	597.798	4525.208	8.84	318	0.44	7.24	314.67	0.6345	2.779
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR4	597.798	4525.208	3.66	318	0.61	2.42	421.89	0.0144	0.063
PA	Butler	CROMPTON CORP/PETROLIA	CROM1	607.816	4540.948	60.96	358	2.74	7.66	588.56	0.5133	2.248
PA	Butler	CROMPTON CORP/PETROLIA	CROM2	607.816	4540.948	9.14	358	0.61	29.40	449.67	0.1416	0.620
PA	Butler	CROMPTON CORP/PETROLIA	CROM3	607.816	4540.948	60.96	358	1.83	7.44	610.78	1.6657	7.296
PA	Butler	CROMPTON CORP/PETROLIA	CROM4	607.816	4540.948	18.29	358	0.61	2.51	588.56	0.2162	0.947
PA	Butler	CROMPTON CORP/PETROLIA	CROM5	607.816	4540.948	15.24	358	0.61	1.15	694.11	0.0171	0.075
PA	Butler	CROMPTON CORP/PETROLIA	CROM6	607.816	4540.948	15.24	358	0.61	1.29	644.11	0.1049	0.459
PA	Butler	CROMPTON CORP/PETROLIA	CROM7	607.816	4540.948	15.24	358	0.61	1.62	644.11	0.0963	0.422
PA	Butler	CROMPTON CORP/PETROLIA	CROM8	607.816	4540.948	3.05	358	0.30	0.02	921.89	0.3920	1.717
PA	Butler	CROMPTON CORP/PETROLIA	CROM9	607.816	4540.948	9.14	358	0.01	0.00	295.22	1.7998	7.883
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS1	607.882	4541.582	9.14	358	0.76	3.62	421.89	0.0342	0.150
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS2	607.882	4541.582	15.24	358	0.76	3.08	433.00	0.0342	0.150
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS3	607.882	4541.582	26.21	358	1.28	16.13	449.67	0.1598	0.700
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS4	607.882	4541.582	15.54	358	1.83	12.93	434.11	0.2156	0.944
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS5	607.882	4541.582	19.51	358	1.68	14.83	434.11	1.1210	4.910

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PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS6	607.882	4541.582	22.86	358	0.61	20.34	362.44	1.5114	6.620
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS7	607.882	4541.582	19.81	358	1.07	15.84	366.33	3.6301	15.900
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS8	607.882	4541.582	18.90	358	1.07	18.40	385.22	2.2831	10.000
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS9	607.882	4541.582	12.19	358	0.30	3.24	366.33	0.6986	3.060
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS10	607.882	4541.582	13.72	358	0.76	10.70	334.67	0.3881	1.700
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS11	607.882	4541.582	21.33	358	0.30	7.64	366.33	0.2349	1.029
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS12	607.882	4541.582	18.90	358	0.30	7.64	349.67	0.0783	0.343
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS13	607.882	4541.582	18.29	358	0.40	5.36	533.00	0.0146	0.064
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS14	607.882	4541.582	10.67	358	0.61	16.17	293.00	0.0913	0.400
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS15	607.882	4541.582	19.51	358	0.43	14.90	394.11	1.2521	5.484
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS16	607.882	4541.582	18.90	358	0.24	9.10	394.11	0.6261	2.742
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS17	607.882	4541.582	17.37	358	0.37	16.80	394.11	1.2153	5.323
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS18	607.882	4541.582	11.89	358	0.39	4.97	307.44	0.3744	1.640
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS19	607.882	4541.582	12.19	358	0.21	13.20	588.56	0.0005	0.002
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS20	607.882	4541.582	13.41	358	0.30	2.90	355.22	0.0662	0.290
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS21	607.882	4541.582	15.54	358	0.47	6.99	345.78	2.2730	9.956
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS22	607.882	4541.582	7.92	358	0.43	18.35	526.89	0.1895	0.830
PA	Butler	NAPCO INC/VALENCIA	NAPC1	590.152	4508.723	12.19	320	0.01	0.00	295.22	0.0220	0.096
PA	Butler	NAPCO INC/VALENCIA	NAPC2	590.152	4508.723	16.15	320	1.01	26.30	966.33	0.0472	0.207
PA	Butler	PENRECO/KARNS CITY	PENR1	607.229	4539.107	18.59	369	1.13	9.36	577.44	0.0685	0.300
PA	Butler	PENRECO/KARNS CITY	PENR2	607.229	4539.107	19.51	369	1.22	13.22	549.67	6.5297	28.600
PA	Butler	PENRECO/KARNS CITY	PENR3	607.229	4539.107	21.94	369	1.22	13.46	560.78	7.1461	31.300
PA	Butler	PENRECO/KARNS CITY	PENR4	607.229	4539.107	17.37	369	0.70	4.65	810.78	0.0685	0.300
PA	Butler	PENRECO/KARNS CITY	PENR5	607.229	4539.107	16.76	369	0.55	2.40	1144.11	0.0457	0.200
PA	Butler	PENRECO/KARNS CITY	PENR6	607.229	4539.107	12.50	369	0.61	1.45	699.67	0.0457	0.200
PA	Butler	PENRECO/KARNS CITY	PENR7	607.229	4539.107	16.76	369	0.46	13.51	1144.11	0.6164	2.700
PA	Butler	PENRECO/KARNS CITY	PENR8	607.229	4539.107	30.48	369	0.01	0.00	295.22	0.1142	0.500
PA	Butler	PENRECO/KARNS CITY	PENR9	607.229	4539.107	31.39	369	1.41	6.62	601.33	0.0685	0.300
PA	Butler	PENRECO/KARNS CITY	PENR10	607.229	4539.107	0.61	369	0.01	0.00	295.22	0.2955	1.294
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO1	573.023	4525.853	5.79	391	0.01	0.00	295.22	0.0005	0.002
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO2	573.023	4525.853	0.61	391	0.01	0.00	295.22	0.0011	0.005
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA1	577.712	4518.285	6.10	299	1.83	2.48	1144.11	1.0845	4.750
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA2	577.712	4518.285	0.61	299	0.01	0.00	295.22	1.0845	4.750
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV1	575.000	4506.212	9.75	331	0.91	18.30	315.78	0.0068	0.030
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV2	575.000	4506.212	14.32	331	0.37	5.27	428.00	0.1450	0.635
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV3	575.000	4506.212	14.02	331	1.37	10.73	293.00	0.1450	0.635
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV4	575.000	4506.212	14.32	331	0.37	27.85	428.00	0.0297	0.130
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV5	575.000	4506.212	0.61	331	0.01	0.00	295.22	0.0936	0.410
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV6	575.000	4506.212	10.97	331	0.59	5.45	313.56	0.0018	0.008
PA	Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS PWR S	ALLGAN	599.485	4400.378	19.81	347	3.48	18.88	616.33	0.1393	0.610

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PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL1	620.431	4427.412	30.48	287	1.52	8.28	699.67	8.5948	37.645
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL2	620.431	4427.412	22.86	287	0.91	17.97	498.00	13.5374	59.294
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL3	620.431	4427.412	21.03	287	1.47	10.02	322.44	1.2197	5.342
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL4	620.431	4427.412	18.29	287	0.01	0.00	295.22	0.3107	1.361
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL5	620.431	4427.412	17.68	287	1.04	8.42	497.44	0.0066	0.029
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL6	620.431	4427.412	11.28	287	0.61	9.70	588.56	0.0086	0.038
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL7	620.431	4427.412	10.67	287	0.61	10.50	588.56	0.0123	0.054
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL8	620.431	4427.412	9.14	287	0.91	1.44	588.56	0.0062	0.027
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	CROWN1	621.438	4426.906	5.49	297	0.76	2.07	438.56	0.0084	0.037
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	CROWN2	621.438	4426.906	3.66	297	0.55	3.00	438.56	0.0037	0.016
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	CROWN3	621.438	4426.906	7.62	297	1.07	12.90	588.56	0.5826	2.552
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS1	613.309	4412.415	10.67	335	0.30	0.65	492.44	0.0035	0.016
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS2	613.309	4412.415	10.67	335	0.30	0.65	500.22	0.0013	0.006
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS3	613.309	4412.415	9.14	335	0.49	20.86	632.44	0.0629	0.276
PA	Fayette	ONYX CHESTNUT VALLEY LANDFILL INC/J & L	ONYX	602.494	4416.913	3.96	380	0.61	0.69	310.78	1.6724	7.325
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES1	613.494	4421.310	16.76	329	0.64	2.20	533.00	0.0006	0.003
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES2	613.494	4421.310	12.19	329	2.13	5.17	588.56	0.0411	0.180
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES3	613.494	4421.310	12.19	329	1.60	16.22	640.22	0.0616	0.270
PA	Greene	CARNEGIE INTERSTATE /WAYNESBURG COMPR	CARINT	569.815	4416.045	8.23	289	0.44	17.46	668.56	0.0890	0.390
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR1	591.225	4410.410	17.68	246	1.04	8.42	497.44	0.0913	0.400
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR2	591.225	4410.410	0.61	246	0.01	0.00	295.22	2.1421	9.382
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB1	550.203	4424.915	31.39	392	2.32	9.74	393.00	13.0116	56.991
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB2	550.203	4424.915	7.62	392	0.01	0.00	295.22	12.9968	56.926
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB3	550.203	4424.915	0.61	392	0.01	0.00	295.22	3.2769	14.353
PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR1	572.662	4417.004	12.19	300	1.60	16.22	640.22	0.1142	0.500
PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR2	572.662	4417.004	9.14	300	0.61	16.18	644.11	0.1370	0.600
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP1	573.038	4417.863	6.10	300	0.30	6.47	644.11	0.0046	0.020
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP2	573.038	4417.863	8.23	300	0.44	17.46	668.56	0.0297	0.130
PA	Greene	KYOWA AMER CORP/WAYNESBURG PLT	KYOWA	569.790	4418.820	6.10	315	0.46	3.36	449.67	0.0221	0.097
PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL1	546.844	4415.714	8.23	306	0.44	17.46	668.56	1.1918	5.220
PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL2	546.844	4415.714	13.11	306	1.83	27.10	751.89	0.2215	0.970
PA	Greene	TEXAS EASTERN TRANS /WAYNESBURG STA	TEXWA1	574.778	4419.189	12.19	336	1.60	16.22	640.22	0.0388	0.170
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX1	556.898	4525.467	4.57	255	0.01	0.00	295.22	0.0032	0.014
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX2	556.898	4525.467	29.87	255	0.01	0.00	295.22	0.0967	0.424
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX3	556.898	4525.467	1.22	255	0.01	0.00	295.22	0.5467	2.395
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX4	556.898	4525.467	0.91	255	0.01	0.00	295.22	1.5229	6.671
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX5	556.898	4525.467	23.16	255	0.01	0.00	295.22	0.4840	2.120
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX6	556.898	4525.467	3.66	255	0.01	0.00	295.22	1.4827	6.494
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX7	556.898	4525.467	3.05	255	0.01	0.00	295.22	0.8994	3.939
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX8	556.898	4525.467	4.27	255	0.01	0.00	295.22	0.0854	0.374

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PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX9	556.898	4525.467	24.38	255	0.01	0.00	295.22	0.1885	0.826
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX10	556.898	4525.467	0.61	255	0.01	0.00	295.22	0.5661	2.480
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX11	556.898	4525.467	24.38	255	0.86	12.23	336.33	6.0322	26.421
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX12	556.898	4525.467	13.11	255	0.70	9.78	299.67	0.8411	3.684
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX13	556.898	4525.467	3.05	255	0.34	16.00	299.67	0.3124	1.368
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX14	556.898	4525.467	14.93	255	0.34	16.00	294.11	0.3124	1.368
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX15	556.898	4525.467	6.10	255	0.82	17.80	294.11	0.3124	1.368
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX16	556.898	4525.467	21.33	255	0.34	16.00	299.67	0.3124	1.368
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX17	556.898	4525.467	9.14	255	0.79	19.10	299.67	2.1029	9.211
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX18	556.898	4525.467	8.53	255	0.98	15.80	299.67	2.6316	11.526
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX19	556.898	4525.467	16.76	255	0.50	11.87	313.56	0.3575	1.566
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX20	556.898	4525.467	22.25	255	0.58	21.50	299.67	1.5897	6.963
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX21	556.898	4525.467	32.00	255	0.52	17.90	299.67	0.5131	2.247
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX22	556.898	4525.467	13.72	255	0.61	13.80	299.67	0.9523	4.171
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX23	556.898	4525.467	35.05	255	0.70	14.70	294.11	2.5234	11.053
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX24	556.898	4525.467	35.05	255	0.70	12.20	294.11	1.0574	4.632
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX25	556.898	4525.467	35.05	255	0.40	5.74	294.11	0.1562	0.684
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX26	556.898	4525.467	15.54	255	1.19	14.50	294.11	10.7426	47.053
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX27	556.898	4525.467	11.58	255	1.01	5.94	294.11	1.6823	7.368
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX28	556.898	4525.467	10.97	255	0.27	16.00	294.11	0.2163	0.947
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX29	556.898	4525.467	10.06	255	0.34	26.70	294.11	0.5287	2.316
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX30	556.898	4525.467	16.76	255	0.34	16.00	299.67	0.3124	1.368
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX31	556.898	4525.467	24.38	255	0.53	12.36	306.89	2.2110	9.684
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX32	556.898	4525.467	18.90	255	2.74	16.40	408.00	1.5411	6.750
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX33	556.898	4525.467	91.44	255	3.35	19.60	408.00	10.0133	43.858
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX34	556.898	4525.467	23.47	255	0.92	13.92	344.67	8.8921	38.947
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX35	556.898	4525.467	12.19	255	0.70	24.50	349.67	1.6102	7.053
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB1	541.971	4541.031	9.14	325	1.22	26.28	294.11	0.6062	2.655
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB2	541.971	4541.031	0.61	325	0.01	0.00	295.22	0.0674	0.295
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF1	559.518	4523.534	0.61	278	0.01	0.00	295.22	0.3523	1.543
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF2	559.518	4523.534	25.30	278	0.79	2.44	421.89	0.0685	0.300
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF3	559.518	4523.534	11.58	278	0.91	5.17	477.44	0.0685	0.300
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF4	559.518	4523.534	10.36	278	0.49	8.80	336.33	0.2968	1.300
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ1	554.699	4537.917	25.91	240	0.76	4.85	560.78	0.0297	0.130
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ2	554.699	4537.917	22.86	240	3.05	21.97	316.33	2.9886	13.090
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ3	554.699	4537.917	30.48	240	2.44	14.68	550.78	0.0719	0.315
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ4	554.699	4537.917	17.68	240	1.07	10.92	400.78	0.5527	2.421
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	ELWQ5	554.699	4537.917	0.61	240	0.01	0.00	295.22	2.8548	12.504
PA	Lawrence	ESSROC/BESSEMER	ESRC1	542.900	4536.052	9.14	340	0.01	0.00	295.22	0.0655	0.287
PA	Lawrence	ESSROC/BESSEMER	ESRC2	542.900	4536.052	62.48	340	3.35	10.86	449.67	11.2735	49.378

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PA	Lawrence	ESSROC/BESSEMER	ESRC3	542.900	4536.052	60.96	340	4.63	7.14	477.44	15.7847	69.137
PA	Lawrence	ESSROC/BESSEMER	ESRC4	542.900	4536.052	21.33	340	2.13	20.05	344.11	7.4618	32.683
PA	Lawrence	ESSROC/BESSEMER	ESRC5	542.900	4536.052	21.94	340	0.61	9.90	294.11	0.2455	1.075
PA	Lawrence	ESSROC/BESSEMER	ESRC6	542.900	4536.052	26.52	340	0.91	19.05	338.56	0.0698	0.306
PA	Lawrence	ESSROC/BESSEMER	ESRC7	542.900	4536.052	28.65	340	0.30	12.29	338.56	0.2070	0.907
PA	Lawrence	ESSROC/BESSEMER	ESRC8	542.900	4536.052	16.76	340	0.37	3.26	338.56	0.2009	0.880
PA	Lawrence	ESSROC/BESSEMER	ESRC9	542.900	4536.052	21.64	340	0.86	18.82	354.67	0.6041	2.646
PA	Lawrence	ESSROC/BESSEMER	ESRC10	542.900	4536.052	22.86	340	0.30	28.18	299.67	0.0646	0.283
PA	Lawrence	ESSROC/BESSEMER	ESRC11	542.900	4536.052	41.76	340	0.30	25.24	338.56	0.3280	1.437
PA	Lawrence	ESSROC/BESSEMER	ESRC12	542.900	4536.052	41.76	340	0.30	23.25	338.56	0.6724	2.945
PA	Lawrence	ESSROC/BESSEMER	ESRC13	542.900	4536.052	16.76	340	0.50	11.87	313.56	0.6724	2.945
PA	Lawrence	ESSROC/BESSEMER	ESRC14	542.900	4536.052	6.71	340	0.30	20.23	294.11	0.4825	2.113
PA	Lawrence	ESSROC/BESSEMER	ESRC15	542.900	4536.052	9.14	340	0.30	20.23	294.11	0.2412	1.057
PA	Lawrence	ESSROC/BESSEMER	ESRC16	542.900	4536.052	0.61	340	0.01	0.00	295.22	4.4426	19.458
PA	Lawrence	FLOWLINE DIV MARKOVI/NEW CASTLE	FLWLN	549.053	4540.775	0.61	309	0.30	6.38	490.78	0.0274	0.120
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC1	560.995	4523.213	21.03	280	1.01	19.30	330.22	2.2374	9.800
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC2	560.995	4523.213	22.25	280	1.46	21.90	346.89	0.5123	2.244
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC3	560.995	4523.213	21.94	280	3.05	11.00	402.44	0.2639	1.156
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC4	560.995	4523.213	17.98	280	0.82	7.50	294.11	2.6484	11.600
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC5	560.995	4523.213	0.61	280	0.01	0.00	295.22	0.1233	0.540
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC6	560.995	4523.213	10.36	280	0.49	8.80	336.33	0.2420	1.060
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG1	554.446	4537.982	7.31	244	0.91	0.10	355.22	0.1315	0.576
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG2	554.446	4537.982	0.61	244	0.01	0.00	295.22	0.0740	0.324
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG3	554.446	4537.982	3.96	244	0.91	0.37	355.22	0.0457	0.200
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF1	567.699	4456.709	9.14	288	1.52	2.59	449.67	0.0228	0.100
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF2	567.699	4456.709	4.27	288	0.91	8.35	294.11	0.0579	0.254
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF3	567.699	4456.709	9.14	288	1.52	5.17	449.67	0.3881	1.700
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF4	567.699	4456.709	8.84	288	0.72	13.64	303.00	0.0114	0.050
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	ALLHF5	567.699	4456.709	0.61	288	0.01	0.00	295.22	0.6164	2.700
PA	Washington	ALLEGHENY LUDLUM COR/WASHINGTON FLATROL	ALLWA	561.999	4448.612	0.61	313	0.01	0.00	295.22	0.0457	0.200
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPR	CLMGD1	548.183	4457.824	8.23	300	0.44	17.46	668.56	0.2740	1.200
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPR	CLMGD2	548.183	4457.824	11.28	300	0.56	6.28	493.56	0.0082	0.036
PA	Washington	DOMINION PEOPLES/GIBSON STA	DOMGIB	588.256	4444.277	7.62	322	0.27	3.99	632.44	0.0228	0.100
PA	Washington	DYNO NOBEL INC/DONORA	DYNO1	597.479	4449.142	15.24	234	0.91	9.76	435.78	0.3097	1.357
PA	Washington	DYNO NOBEL INC/DONORA	DYNO2	597.479	4449.142	15.54	234	0.47	6.99	345.78	0.7491	3.281
PA	Washington	DYNO NOBEL INC/DONORA	DYNO3	597.479	4449.142	32.61	234	1.16	23.27	469.67	0.0810	0.355
PA	Washington	DYNO NOBEL INC/DONORA	DYNO4	597.479	4449.142	44.19	234	1.98	27.55	302.44	6.3634	27.872
PA	Washington	DYNO NOBEL INC/DONORA	DYNO5	597.479	4449.142	9.14	234	0.64	14.90	305.22	0.3360	1.472
PA	Washington	DYNO NOBEL INC/DONORA	DYNO6	597.479	4449.142	13.72	234	1.01	10.69	546.89	0.1343	0.588
PA	Washington	DYNO NOBEL INC/DONORA	DYNO7	597.479	4449.142	0.61	234	0.01	0.00	295.22	2.3387	10.243

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
PA	Washington	DYNO NOBEL INC/DONORA	DYNO8	597.479	4449.142	7.62	234	0.01	0.00	295.22	0.0645	0.282
PA	Washington	EQUITRANS INC/HARTSON	EQTRH1	588.225	4456.399	10.67	316	0.46	21.60	477.44	0.0228	0.100
PA	Washington	EQUITRANS INC/HARTSON	EQTRH2	588.225	4456.399	4.88	316	0.46	0.86	533.00	0.0023	0.010
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN1	566.547	4463.825	0.61	310	0.01	0.00	295.22	0.0137	0.060
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN2	566.547	4463.825	12.19	310	0.21	2.30	449.67	0.0091	0.040
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS1	591.478	4448.378	12.50	232	0.59	6.38	490.78	0.1370	0.600
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS2	591.478	4448.378	16.46	232	0.09	17.39	293.00	0.2355	1.031
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS3	591.478	4448.378	34.14	232	0.91	3.35	923.00	0.0457	0.200
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP1	561.781	4447.222	6.10	318	0.30	14.57	493.56	0.0228	0.100
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP2	561.781	4447.222	3.66	318	0.61	0.05	294.11	0.1076	0.471
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP3	561.781	4447.222	15.24	318	1.52	1.06	588.56	0.7160	3.136
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP4	561.781	4447.222	1.52	318	0.01	0.00	295.22	1.3470	5.900
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP5	561.781	4447.222	3.66	318	0.91	12.90	294.11	0.0228	0.100
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP6	561.781	4447.222	17.37	318	0.87	7.80	550.78	0.0328	0.144
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP7	561.781	4447.222	10.67	318	0.76	8.28	588.56	0.0685	0.300
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP8	561.781	4447.222	0.61	318	0.01	0.00	295.22	0.5102	2.235
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP9	561.781	4447.222	11.28	318	0.56	6.28	493.56	0.0685	0.300
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL1	550.858	4468.276	153.31	369	2.44	3.60	323.56	0.7763	3.400
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL2	550.858	4468.276	17.07	369	0.81	10.88	300.22	0.1598	0.700
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL3	550.858	4468.276	12.19	369	0.61	4.24	366.33	0.2511	1.100
PA	Washington	PA DPW/WESTERN STATE SCH & HOSP	DPWWS	570.698	4458.801	18.29	315	0.91	9.00	588.56	0.0068	0.030
PA	Washington	PA TRANSFORMER TECH /CANONSBURG	TRNTCH	570.553	4457.956	11.89	295	0.52	9.79	490.78	0.0344	0.151
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR1	589.996	4451.213	10.06	227	0.56	12.70	395.78	0.9057	3.967
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR2	589.996	4451.213	15.54	227	0.92	10.10	379.67	0.0023	0.010
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR3	589.996	4451.213	13.72	227	0.69	15.07	317.44	0.0457	0.200
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR4	589.996	4451.213	0.61	227	0.01	0.00	295.22	0.0297	0.130
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC1	550.382	4472.213	25.91	320	3.75	9.10	349.67	0.4338	1.900
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC2	550.382	4472.213	17.68	320	1.07	10.92	400.78	1.1621	5.090
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC3	550.382	4472.213	12.19	320	0.01	0.00	295.22	0.2329	1.020
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC4	550.382	4472.213	0.61	320	0.01	0.00	295.22	0.3082	1.350
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC5	550.382	4472.213	24.08	320	1.34	6.64	471.33	0.0890	0.390
PA	Washington	USA WASTE SVC INC/USA SOUTH HILLS LDFL	USAWSH	586.001	4458.216	0.61	307	0.01	0.00	295.22	0.2047	0.897
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA1	598.695	4438.189	11.28	233	0.82	16.41	421.89	0.0548	0.240
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA2	598.695	4438.189	6.10	233	0.30	7.80	977.44	0.1096	0.480
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA3	598.695	4438.189	17.37	233	0.87	7.80	550.78	0.0160	0.070
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA4	598.695	4438.189	0.61	233	0.01	0.00	295.22	1.9247	8.430
PA	Washington	WILLIAM H MARTIN INC/ARDEN LDFL	WILMAR	562.566	4451.147	15.24	300	3.44	0.26	1088.56	1.1705	5.127
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH1	594.082	4443.703	30.48	234	0.61	25.87	627.44	1.1525	5.048
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH2	594.082	4443.703	24.38	234	0.86	12.21	447.44	2.2373	9.799
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH3	594.082	4443.703	0.61	234	0.01	0.00	295.22	0.8501	3.724

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
PA	Westmoreland	ALCOA INC/UPPER BURREL	ALCOA	613.901	4490.207	10.67	392	0.30	0.65	497.44	0.0905	0.397
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV1	620.711	4495.922	16.76	247	0.61	2.44	435.78	0.0240	0.105
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV2	620.711	4495.922	21.33	247	1.52	17.46	321.89	2.8489	12.478
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV3	620.711	4495.922	21.33	247	0.79	11.09	316.33	2.5844	11.320
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV4	620.711	4495.922	3.05	247	0.01	0.00	295.22	0.2645	1.159
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV5	620.711	4495.922	15.24	247	1.83	0.05	810.78	0.0457	0.200
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV6	620.711	4495.922	12.50	247	0.76	20.70	344.11	0.5595	2.451
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV7	620.711	4495.922	21.33	247	1.22	4.04	321.89	0.1221	0.535
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV8	620.711	4495.922	0.61	247	0.01	0.00	295.22	0.2942	1.289
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV9	620.711	4495.922	4.88	247	1.01	15.12	810.78	0.0596	0.261
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV10	620.711	4495.922	18.29	247	0.61	5.82	321.89	0.0873	0.382
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV11	620.711	4495.922	18.29	247	0.46	6.89	316.33	0.0436	0.191
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW1	617.435	4499.733	23.16	242	2.29	3.45	421.89	0.0008	0.003
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW2	617.435	4499.733	13.11	242	1.07	15.84	421.89	0.0343	0.150
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW3	617.435	4499.733	16.76	242	0.61	0.49	493.56	0.0072	0.032
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW4	617.435	4499.733	15.24	242	1.22	1.52	294.11	3.4106	14.939
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW5	617.435	4499.733	17.68	242	1.04	8.42	497.44	0.0452	0.198
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW6	617.435	4499.733	15.24	242	1.07	6.40	810.78	0.2059	0.902
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW7	617.435	4499.733	0.61	242	0.01	0.00	295.22	0.3426	1.501
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW8	617.435	4499.733	15.24	242	0.46	28.65	321.89	0.4146	1.816
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW9	617.435	4499.733	25.91	242	1.07	15.85	303.56	0.0721	0.316
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW10	617.435	4499.733	6.10	242	0.01	0.00	295.22	0.0164	0.072
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW11	617.435	4499.733	9.14	242	0.30	17.91	294.11	0.5380	2.356
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW12	617.435	4499.733	18.29	242	0.40	13.78	338.56	0.0218	0.096
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW13	617.435	4499.733	16.76	242	1.04	10.67	310.22	0.0218	0.096
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW14	617.435	4499.733	7.62	242	0.91	5.39	321.89	0.5380	2.356
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW15	617.435	4499.733	15.24	242	0.46	21.64	321.89	0.0218	0.096
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW16	617.435	4499.733	3.05	242	0.01	0.00	295.22	0.0035	0.016
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW17	617.435	4499.733	7.92	242	0.30	12.80	321.89	0.8177	3.582
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW18	617.435	4499.733	15.24	242	0.61	12.13	321.89	0.0218	0.096
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW19	617.435	4499.733	15.24	242	0.61	24.32	810.78	0.0913	0.400
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW20	617.435	4499.733	18.29	242	0.91	7.25	810.78	0.0271	0.119
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW21	617.435	4499.733	17.68	242	1.07	10.92	400.78	0.7563	3.313
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA1	638.194	4465.266	7.62	311	1.77	21.60	310.22	0.3534	1.548
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA2	638.194	4465.266	17.68	311	1.07	10.92	400.78	0.1937	0.848
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA3	638.194	4465.266	0.61	311	0.01	0.00	295.22	0.1712	0.750
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG1	621.198	4449.907	53.34	370	1.22	24.08	574.67	0.4952	2.169
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG2	621.198	4449.907	17.68	370	1.04	8.42	497.44	0.1351	0.592
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG3	621.198	4449.907	23.16	370	0.61	0.76	477.44	0.0273	0.120
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG4	621.198	4449.907	23.16	370	0.30	10.35	485.22	0.0060	0.026

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PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG5	621.198	4449.907	11.28	370	0.54	6.31	500.22	0.0382	0.167
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG6	621.198	4449.907	9.45	370	0.53	11.63	611.33	0.0002	0.001
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG7	621.198	4449.907	20.73	370	1.16	7.50	485.22	0.0123	0.054
PA	Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	CHSRDG	639.449	4465.423	22.86	313	0.67	1.34	394.11	0.0062	0.027
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP1	624.894	4443.205	12.50	323	0.59	6.38	490.78	0.0044	0.019
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP2	624.894	4443.205	7.92	323	0.37	21.26	293.00	0.0014	0.006
PA	Westmoreland	DOMINION PEOPLES/LATROBE STATION	DOMLA	632.811	4463.038	8.23	326	0.44	17.46	668.56	0.0281	0.123
PA	Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	DOMLH	617.340	4462.014	9.14	398	0.49	20.86	632.44	0.0318	0.139
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK1	622.279	4473.474	9.75	347	0.61	9.66	505.22	0.0194	0.085
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK2	622.279	4473.474	8.84	347	0.61	16.80	588.56	0.6321	2.769
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK3	622.279	4473.474	4.57	347	0.49	20.40	421.89	0.0073	0.032
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK4	622.279	4473.474	9.14	347	0.24	10.10	449.67	0.0005	0.002
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO1	623.247	4471.435	6.40	381	0.30	0.72	449.67	0.0007	0.003
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO2	623.247	4471.435	14.93	381	1.52	13.80	671.89	0.2791	1.223
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO3	623.247	4471.435	10.97	381	0.62	20.58	639.67	0.0008	0.003
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO4	623.247	4471.435	14.02	381	0.61	0.72	449.67	0.0017	0.008
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN1	615.601	4479.974	11.28	319	0.56	6.28	493.56	0.0004	0.002
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN2	615.601	4479.974	9.14	319	0.49	20.86	632.44	0.0002	0.001
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN3	615.601	4479.974	8.23	319	0.44	17.46	668.56	0.1525	0.668
PA	Westmoreland	DURA BOND IND INC/EXPORT STEEL PLT	DRBND	616.426	4475.990	9.14	301	0.30	0.65	294.11	3.3476	14.662
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY1	620.501	4439.714	9.45	319	0.61	11.68	304.11	0.0287	0.126
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY2	620.501	4439.714	7.92	319	0.69	14.18	302.44	0.0838	0.367
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY3	620.501	4439.714	0.61	319	0.01	0.00	295.22	1.3908	6.092
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY4	620.501	4439.714	12.50	319	0.59	6.38	490.78	0.0219	0.096
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ1	618.000	4466.011	20.73	312	0.91	12.60	1088.56	0.0008	0.004
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ2	618.000	4466.011	13.11	312	1.52	10.19	1088.56	0.0003	0.001
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ3	618.000	4466.011	10.67	312	0.01	0.00	295.22	0.1962	0.859
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ4	618.000	4466.011	10.67	312	0.30	0.65	497.44	0.0026	0.012
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ5	618.000	4466.011	20.73	312	0.91	22.00	1088.56	0.1221	0.535
PA	Westmoreland	EQUITRANS INC/SLEEPY HOLLOW COMPRESSOR	EQTNSL	623.743	4469.112	8.23	385	0.44	17.46	668.56	0.0013	0.006
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC1	620.497	4442.612	15.24	335	3.23	9.25	1088.56	0.1098	0.481
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC2	620.497	4442.612	0.61	335	0.01	0.00	295.22	5.5772	24.428
PA	Westmoreland	HUNTINGTON FOAM PITT/MT PLEASANT	HUNTFM	618.999	4445.209	20.73	377	1.16	7.50	485.22	0.0088	0.039
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM1	593.794	4446.286	38.40	235	1.74	7.29	435.78	0.6050	2.650
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM2	593.794	4446.286	10.67	235	0.01	0.00	295.22	0.0201	0.088
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM3	593.794	4446.286	30.48	235	1.52	0.65	388.56	0.5770	2.527
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM4	593.794	4446.286	18.29	235	4.57	2.68	366.33	1.7831	7.810
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM5	593.794	4446.286	79.55	235	2.44	7.96	588.56	2.6210	11.480
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM6	593.794	4446.286	7.62	235	0.01	0.00	295.22	2.5359	11.107
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM7	593.794	4446.286	9.14	235	0.01	0.00	295.22	0.0322	0.141

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PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM8	593.794	4446.286	121.91	235	0.61	4.04	449.67	0.6324	2.770
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM9	593.794	4446.286	0.61	235	0.01	0.00	295.22	0.8087	3.542
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP1	636.598	4464.715	33.53	308	1.10	3.23	533.00	0.0256	0.112
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP2	636.598	4464.715	11.89	308	0.89	22.23	598.00	0.0023	0.010
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW1	636.897	4464.610	17.68	297	1.04	8.42	497.44	0.0566	0.248
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW2	636.897	4464.610	10.67	297	0.76	8.05	348.56	0.0289	0.127
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM1	629.653	4487.833	10.67	258	0.30	0.65	699.67	0.1658	0.726
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM2	629.653	4487.833	12.19	258	1.22	0.04	294.11	0.0954	0.418
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM3	629.653	4487.833	9.14	258	0.01	0.00	295.22	0.0321	0.141
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM4	629.653	4487.833	10.67	258	0.30	0.65	338.00	4.0159	17.590
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM5	629.653	4487.833	0.61	258	0.01	0.00	295.22	3.4213	14.985
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM6	629.653	4487.833	10.67	258	0.30	0.65	493.56	0.0005	0.002
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM7	629.653	4487.833	10.67	258	0.30	0.65	304.11	0.0101	0.044
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM8	629.653	4487.833	10.67	258	0.30	0.65	294.11	0.0666	0.292
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM9	629.653	4487.833	15.85	258	1.01	14.90	303.00	0.0411	0.180
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA1	617.368	4464.580	13.72	299	0.61	0.81	497.44	0.0013	0.006
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA2	617.368	4464.580	17.68	299	1.04	8.42	497.44	0.0180	0.079
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA3	617.368	4464.580	10.97	299	0.91	5.87	313.00	0.3979	1.743
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR1	647.783	4473.367	19.81	343	1.52	15.04	449.67	0.0729	0.319
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR2	647.783	4473.367	76.20	343	3.66	4.97	421.89	0.6084	2.665
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR3	647.783	4473.367	8.23	343	0.44	8.71	498.00	0.0005	0.002
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR4	647.783	4473.367	8.53	343	0.38	22.38	603.56	0.0023	0.010
PA	Westmoreland	POLY HI SOLIDUR INC/DELMONT PLT	POLYHI	621.009	4475.918	17.68	363	1.04	8.42	497.44	0.0282	0.124
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR1	613.805	4446.672	7.62	292	0.01	0.00	295.22	0.0849	0.372
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR2	613.805	4446.672	10.67	292	0.91	8.62	500.22	0.0136	0.060
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY1	621.146	4449.462	12.19	356	0.61	12.93	608.00	0.0297	0.130
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY2	621.146	4449.462	13.11	356	0.76	11.64	491.33	0.1872	0.820
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY3	621.146	4449.462	12.50	356	0.76	6.74	477.44	0.0548	0.240
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY4	621.146	4449.462	10.67	356	0.15	3.39	490.78	0.0036	0.016
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY5	621.146	4449.462	10.67	356	0.15	2.59	490.78	0.0031	0.013
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY6	621.146	4449.462	21.33	356	0.70	9.17	310.78	0.1659	0.727
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY7	621.146	4449.462	10.67	356	0.30	4.53	294.11	0.1477	0.647
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY8	621.146	4449.462	10.67	356	0.15	3.91	294.11	0.0044	0.019
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY9	621.146	4449.462	10.67	356	0.30	6.47	294.11	0.0022	0.010
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY10	621.146	4449.462	9.14	356	0.30	12.94	366.33	0.0086	0.038
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY11	621.146	4449.462	9.45	356	0.30	6.47	500.22	0.0082	0.036
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY12	621.146	4449.462	11.28	356	0.54	6.31	500.22	0.0059	0.026
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY13	621.146	4449.462	12.19	356	1.22	1.25	399.67	0.0434	0.190
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY14	621.146	4449.462	13.11	356	0.61	5.14	399.67	0.0205	0.090
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY15	621.146	4449.462	12.80	356	0.43	5.83	490.78	0.0221	0.097

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PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY16	621.146	4449.462	12.19	356	0.55	17.70	477.44	0.0342	0.150
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY17	621.146	4449.462	15.24	356	0.30	29.11	294.11	0.0021	0.009
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY18	621.146	4449.462	18.29	356	0.46	28.75	305.22	0.0043	0.019
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY19	621.146	4449.462	9.45	356	0.50	7.79	324.67	0.0002	0.001
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY20	621.146	4449.462	10.67	356	0.76	7.24	490.78	0.0003	0.001
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY21	621.146	4449.462	15.24	356	1.07	14.26	294.11	0.0530	0.232
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY22	621.146	4449.462	13.72	356	0.46	6.90	299.67	0.0021	0.009
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY23	621.146	4449.462	1.52	356	0.01	0.00	295.22	0.0023	0.010
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY24	621.146	4449.462	10.67	356	0.15	20.70	421.89	0.0009	0.004
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY25	621.146	4449.462	12.19	356	0.55	13.58	465.22	0.0014	0.006
PA	Westmoreland	ST GEORGE CRYSTAL LTD/JEANNETTE	STGCRS	618.600	4465.110	15.24	309	0.61	11.32	477.44	0.1955	0.856
PA	Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	STVNCT	636.295	4461.712	17.68	344	1.04	8.42	497.44	0.3191	1.398
PA	Westmoreland	STD STEEL/LATROBE	STDSL1	637.621	4463.157	60.96	311	3.05	0.85	435.78	0.1187	0.520
PA	Westmoreland	STD STEEL/LATROBE	STDSL2	637.621	4463.157	25.91	311	3.75	9.10	349.67	1.1329	4.962
PA	Westmoreland	STD STEEL/LATROBE	STDSL3	637.621	4463.157	12.19	311	0.01	0.00	295.22	0.1065	0.466
PA	Westmoreland	STD STEEL/LATROBE	STDSL4	637.621	4463.157	4.57	311	0.91	20.48	338.56	0.0045	0.020
PA	Westmoreland	STD STEEL/LATROBE	STDSL5	637.621	4463.157	8.84	311	0.72	13.64	303.00	0.0002	0.001
PA	Westmoreland	STD STEEL/LATROBE	STDSL6	637.621	4463.157	0.61	311	0.01	0.00	295.22	0.0776	0.340
PA	Westmoreland	STD STEEL/LATROBE	STDSL7	637.621	4463.157	10.36	311	0.48	4.93	369.11	0.0183	0.080
PA	Westmoreland	STD STEEL/LATROBE	STDSL8	637.621	4463.157	11.28	311	0.56	6.28	493.56	0.0908	0.398
PA	Westmoreland	SUMMERILL TUBE CORP/SCOTTDALE PLT	SUMMRL	620.674	4440.616	17.68	313	1.04	8.42	497.44	0.0032	0.014
PA	Westmoreland	SUNOCO PARTNERS M&T/DELMONT FACILITY	SUNDEL	620.935	4476.317	7.62	391	1.00	3.33	418.56	0.0076	0.033
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL1	621.041	4476.514	17.07	388	0.37	23.88	788.56	0.2336	1.023
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL2	621.041	4476.514	8.23	388	0.44	17.46	668.56	0.2551	1.117
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL3	621.041	4476.514	12.19	388	1.60	16.22	640.22	0.2626	1.150
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN1	638.479	4462.729	12.19	313	1.52	2.59	497.44	0.0642	0.281
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN2	638.479	4462.729	11.28	313	0.56	6.28	493.56	0.0365	0.160
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN3	638.479	4462.729	22.86	313	3.05	29.11	366.33	0.6538	2.864
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN4	638.479	4462.729	15.24	313	1.95	24.16	310.78	0.5961	2.611
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN5	638.479	4462.729	17.68	313	1.07	10.92	400.78	0.0041	0.018
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN6	638.479	4462.729	14.02	313	0.46	2.87	294.11	0.0172	0.075
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN7	638.479	4462.729	3.35	313	0.61	12.94	294.11	0.0457	0.200
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN8	638.479	4462.729	10.36	313	0.61	10.50	294.11	0.2130	0.933
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN9	638.479	4462.729	9.14	313	1.52	0.97	310.78	0.0077	0.034
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN10	638.479	4462.729	14.02	313	0.61	16.20	294.11	0.0085	0.037
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN11	638.479	4462.729	3.05	313	0.01	0.00	295.22	0.0437	0.192
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN12	638.479	4462.729	9.75	313	0.76	12.42	294.11	0.0003	0.001
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN13	638.479	4462.729	3.66	313	0.30	2.59	477.44	0.3593	1.574
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN14	638.479	4462.729	15.54	313	0.88	9.95	453.00	0.1765	0.773
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN15	638.479	4462.729	18.29	313	1.01	0.12	477.44	0.1187	0.520

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PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN16	638.479	4462.729	9.14	313	0.37	18.87	294.11	0.1113	0.487
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN17	638.479	4462.729	0.61	313	0.01	0.00	295.22	0.8445	3.699
PA	Westmoreland	USA VALLEY FAC INC/VALLEY LDFL	USAVAL	612.520	4471.689	0.61	360	0.01	0.00	295.22	0.5298	2.321
PA	Westmoreland	WESTMORELAND WASTE LLC/SANITARY LDFL	WESWST	597.397	4444.311	4.57	286	0.91	0.86	366.33	0.1092	0.479
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA1	636.798	4462.609	10.36	309	0.58	4.46	511.33	0.0430	0.189
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA2	636.798	4462.609	13.72	309	0.77	9.73	358.00	0.8177	3.582
Ohio Sources (w/o EGUs)												
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART1	524.378	4438.785	16.15	210	1.22	40.42	477.44	0.0068	0.030
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART2	524.377	4438.896	6.40	210	0.46	8.62	477.44	0.0137	0.060
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART3	524.122	4438.895	38.71	210	1.43	7.19	430.78	0.0071	0.031
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART4	524.122	4438.895	36.88	210	1.19	5.58	401.89	0.0050	0.022
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART5	524.377	4438.896	21.33	210	0.91	14.37	327.44	0.2100	0.920
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART6	524.377	4438.896	24.38	210	0.91	14.37	327.44	0.3516	1.540
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE1	533.645	4463.129	42.67	209	3.05	6.06	449.67	2.2329	9.780
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE2	533.645	4463.129	42.67	209	3.05	6.06	544.11	2.2808	9.990
OH	Jefferson	TITANIUM METALS CORPORATION	TITN1	532.989	4477.112	10.36	216	0.56	4.79	463.56	0.0183	0.080
OH	Jefferson	TITANIUM METALS CORPORATION	TITN2	533.242	4477.335	18.29	216	1.42	9.77	299.67	0.3744	1.640
OH	Jefferson	TITANIUM METALS CORPORATION	TITN3	533.159	4477.112	8.84	216	1.24	19.52	296.89	0.6804	2.980
OH	Jefferson	TITANIUM METALS CORPORATION	TITN4	533.158	4477.334	27.43	216	1.38	1.05	1088.56	0.0023	0.010
OH	Jefferson	TITANIUM METALS CORPORATION	TITN5	532.989	4477.001	22.25	216	0.49	6.70	310.78	0.8950	3.920
OH	Jefferson	TITANIUM METALS CORPORATION	TITN6	532.988	4477.334	16.46	216	1.22	16.17	296.89	0.1735	0.760
OH	Jefferson	TITANIUM METALS CORPORATION	TITN7	533.074	4477.001	11.58	216	1.22	18.19	310.78	3.0228	13.240
OH	Jefferson	TITANIUM METALS CORPORATION	TITN8	533.242	4477.446	16.15	216	0.91	10.30	294.11	0.0160	0.070
OH	Jefferson	TITANIUM METALS CORPORATION	TITN9	533.158	4477.334	22.86	216	1.38	1.05	1088.56	0.0023	0.010
OH	Jefferson	TITANIUM METALS CORPORATION	TITN10	532.989	4477.112	19.81	216	1.01	11.66	310.78	1.7397	7.620
OH	Jefferson	TITANIUM METALS CORPORATION	TITN11	533.158	4477.223	22.86	216	1.38	2.09	1088.56	0.0046	0.020
OH	Jefferson	TITANIUM METALS CORPORATION	TITN12	533.157	4477.445	5.18	216	0.84	14.79	303.00	0.0525	0.230
OH	Jefferson	TITANIUM METALS CORPORATION	TITN13	533.158	4477.334	5.18	216	0.84	24.66	300.22	0.1164	0.510
OH	Jefferson	TITANIUM METALS CORPORATION	TITN14	533.242	4477.446	9.14	216	0.84	21.23	302.44	0.2945	1.290
OH	Jefferson	TITANIUM METALS CORPORATION	TITN15	533.158	4477.223	19.81	216	1.37	8.59	1588.56	0.0548	0.240
OH	Jefferson	TITANIUM METALS CORPORATION	TITN16	533.242	4477.446	19.81	216	1.13	8.20	294.11	0.0183	0.080
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING1	533.732	4462.685	20.12	209	1.29	18.78	283.00	0.4429	1.940
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING2	533.986	4463.019	29.26	209	2.01	11.03	283.00	0.1963	0.860
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING3	533.647	4462.685	9.14	209	2.75	18.44	410.78	2.0616	9.030
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING4	533.986	4463.019	30.78	209	2.96	10.61	412.44	1.1553	5.060
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING5	533.986	4463.019	36.88	209	1.19	5.58	401.89	0.7178	3.144
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING6	533.986	4463.019	49.38	209	3.93	3.99	283.00	1.4429	6.320
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING7	533.393	4462.461	56.99	209	3.96	2.18	783.00	2.2489	9.850
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING8	533.986	4463.019	19.81	209	1.13	8.20	294.11	0.0822	0.360
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING9	533.645	4463.129	71.32	209	3.05	8.55	574.67	10.7466	47.070

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING10	533.732	4462.796	19.20	209	1.75	17.54	377.44	3.0205	13.230
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING11	533.563	4462.573	19.20	209	1.52	10.35	310.78	0.3744	1.640
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING12	533.563	4462.573	53.95	209	3.96	9.94	324.67	32.8493	143.880
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING13	533.732	4462.685	53.64	209	1.52	24.58	1088.56	0.1826	0.800
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING14	533.986	4463.019	41.76	209	2.04	9.97	283.00	0.1164	0.510
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING15	533.986	4463.019	17.37	209	4.54	10.55	283.00	0.0845	0.370
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB1	532.697	4466.232	77.42	203	3.43	1.74	588.56	1.7991	7.880
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB2	532.697	4466.232	35.66	203	2.44	7.39	505.22	8.1735	35.800
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB3	532.612	4466.232	10.67	203	1.52	10.10	588.56	0.0457	0.200
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB4	532.697	4466.232	55.78	203	1.83	19.42	574.67	6.5411	28.650
West Virginia Sources (w/o EGUs)												
WV	Brooke	BALL METAL FOOD CONTAINER CORP.	BALMFC	531.912	4471.113	12.19	224	1.31	6.16	653.00	0.3196	1.400
WV	Brooke	BROOKE COUNTY LANDFILL	BROOK	535.821	4470.132	3.05	333	0.00	0.00	295.22	2.0913	9.160
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN1	532.168	4470.781	8.23	222	0.76	6.10	449.67	0.0071	0.031
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN2	532.168	4470.781	16.76	222	1.37	8.99	588.56	0.1838	0.805
WV	Brooke	IMPRESS USA, INC	IMPRS1	531.824	4471.779	10.97	223	0.46	7.09	449.67	0.1279	0.560
WV	Brooke	IMPRESS USA, INC	IMPRS2	531.824	4471.779	7.31	223	0.20	9.94	255.22	0.0137	0.060
WV	Brooke	IMPRESS USA, INC	IMPRS3	531.824	4471.779	12.50	223	0.51	5.57	449.67	0.0457	0.200
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF1	533.459	4466.680	0.30	218	0.30	6.38	294.11	0.0064	0.028
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF2	533.459	4466.680	9.14	218	0.91	21.33	294.11	0.0158	0.069
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF3	533.459	4466.680	14.93	218	4.72	0.14	755.22	0.0466	0.204
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF4	533.459	4466.680	18.29	218	0.46	0.09	1366.33	0.0146	0.064
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF5	533.459	4466.680	30.48	218	3.05	0.03	560.78	0.6119	2.680
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF6	533.459	4466.680	23.47	218	0.79	7.16	605.22	0.0466	0.204
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF7	533.459	4466.680	30.48	218	3.05	0.03	533.00	0.3470	1.520
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF8	533.459	4466.680	24.38	218	3.05	0.03	533.00	0.3014	1.320
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF9	533.459	4466.680	24.99	218	1.37	22.07	449.67	1.0685	4.680
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF10	533.459	4466.680	3.05	218	0.00	0.00	295.22	0.0555	0.243
WV	Brooke	NESTLE PURINA PETCARE COMPANY	NESTL	532.167	4471.114	12.19	223	0.61	8.53	728.56	0.1925	0.843
WV	Brooke	ROLL COATER, INC.	ROLL1	534.035	4470.900	17.68	210	2.58	9.75	1088.56	0.3470	1.520
WV	Brooke	ROLL COATER, INC.	ROLL2	534.035	4470.900	17.68	210	0.46	16.67	294.11	0.2648	1.160
WV	Brooke	ROLL COATER, INC.	ROLL3	534.035	4470.900	3.05	210	0.00	0.00	295.22	7.2123	31.590
WV	Brooke	UNITED STATES CAN COMPANY	USCAN1	532.082	4471.003	10.67	223	0.91	3.96	421.89	0.2039	0.893
WV	Brooke	UNITED STATES CAN COMPANY	USCAN2	532.082	4471.003	3.05	223	0.00	0.00	295.22	0.0142	0.062
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR1	528.842	4452.675	12.80	203	0.30	6.28	449.67	0.0082	0.036
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR2	528.842	4452.675	13.72	203	0.61	7.92	435.78	0.0731	0.320
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR3	528.842	4452.675	3.05	203	0.00	0.00	295.22	3.3105	14.500
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR4	528.842	4452.675	18.29	203	1.37	13.56	533.00	0.0822	0.360
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR5	528.842	4452.675	12.80	203	0.30	11.89	449.67	0.0091	0.040
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB1	533.377	4466.013	60.96	206	2.28	5.06	583.00	2.1872	9.580

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB4	533.377	4466.013	24.99	206	9.20	0.88	394.11	3.9224	17.180
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB3	533.377	4466.013	13.11	206	0.70	23.19	333.00	3.8425	16.830
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB2	533.377	4466.013	60.96	206	2.44	5.00	588.56	1.1096	4.860
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB8	533.377	4466.013	3.05	206	0.00	0.00	295.22	15.9927	70.048
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB6	533.377	4466.013	18.29	206	2.28	13.41	318.00	7.3744	32.300
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB7	533.377	4466.013	22.86	206	11.30	0.88	394.11	6.7785	29.690
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB5	533.377	4466.013	76.20	206	3.96	8.32	596.89	6.1301	26.850
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB9	533.377	4466.013	60.96	206	2.74	10.09	450.78	1.3836	6.060
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB10	533.377	4466.013	6.10	206	0.61	8.42	568.00	0.2283	1.000
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB11	533.377	4466.013	24.38	206	0.51	10.45	316.33	3.2329	14.160
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB12	533.377	4466.013	63.40	206	5.67	19.99	1273.00	1.2192	5.340
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN1	530.962	4495.418	38.10	205	0.91	14.32	633.00	0.2443	1.070
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN2	530.962	4495.418	38.10	205	1.07	4.88	744.11	0.0920	0.403
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN3	530.962	4495.418	38.10	205	0.61	3.57	775.78	0.0142	0.062
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN4	530.962	4495.418	41.15	205	1.68	6.16	714.11	0.2397	1.050
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN5	530.962	4495.418	38.10	205	1.98	1.95	490.22	0.1733	0.759
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN6	530.962	4495.418	30.48	205	0.76	3.57	539.67	0.0105	0.046
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN7	530.962	4495.418	41.15	205	0.76	3.57	539.67	0.0283	0.124
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN8	530.962	4495.418	45.72	205	1.83	11.58	466.89	1.6840	7.376
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN9	530.962	4495.418	10.67	205	2.44	3.26	1033.00	0.0066	0.029
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN10	530.962	4495.418	4.57	205	0.05	1.01	421.89	0.0030	0.013
WV	Hancock	ISG WEIRTON	ISG1	533.678	4474.673	76.20	224	3.35	4.57	559.67	236.0525	1033.910
WV	Hancock	ISG WEIRTON	ISG2	533.678	4474.673	3.05	224	0.00	0.00	295.22	187.2942	820.348
WV	Hancock	ISG WEIRTON	ISG3	533.678	4474.673	45.72	224	3.51	4.08	324.11	1.0753	4.710
WV	Hancock	ISG WEIRTON	ISG4	533.678	4474.673	60.96	224	3.35	3.05	559.67	198.1662	867.968
WV	Hancock	ISG WEIRTON	ISG5	533.678	4474.673	60.96	224	5.18	6.40	335.78	832.9635	3648.380
WV	Hancock	ISG WEIRTON	ISG8	533.678	4474.673	17.07	224	1.52	8.53	310.78	4.1826	18.320
WV	Hancock	ISG WEIRTON	ISG6	533.678	4474.673	27.74	224	2.59	13.41	408.00	0.1484	0.650
WV	Hancock	ISG WEIRTON	ISG7	533.678	4474.673	73.15	224	0.49	16.76	366.33	0.0731	0.320
WV	Hancock	ISG WEIRTON	ISG9	533.678	4474.673	76.20	224	3.66	10.67	885.78	6.6849	29.280
WV	Hancock	ISG WEIRTON	ISG10	533.678	4474.673	12.80	224	1.22	7.01	579.67	0.4886	2.140
WV	Hancock	ISG WEIRTON	ISG11	533.678	4474.673	52.42	224	3.05	15.85	487.44	1.5703	6.878
WV	Hancock	ISG WEIRTON	ISG12	533.678	4474.673	63.09	224	4.88	8.23	313.00	2.5224	11.048
WV	Hancock	ISG WEIRTON	ISG13	533.678	4474.673	54.86	224	3.35	17.98	455.22	4.3511	19.058
WV	Hancock	ISG WEIRTON	ISG14	533.678	4474.673	68.58	224	3.05	2.44	505.22	5.5333	24.236
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL2	532.902	4496.870	8.53	222	0.61	2.59	294.11	0.0183	0.080
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL1	532.902	4496.870	17.37	222	0.31	5.18	294.11	0.0071	0.031
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL6	532.902	4496.870	14.02	222	0.91	0.64	449.67	0.0991	0.434
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL3	532.902	4496.870	11.89	222	0.61	0.49	449.67	0.0530	0.232
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL9	532.902	4496.870	13.72	222	0.91	2.59	449.67	0.0283	0.124

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WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL8	532.902	4496.870	13.41	222	0.91	0.64	449.67	0.0247	0.108
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL4	532.902	4496.870	12.80	222	0.61	0.55	449.67	0.0142	0.062
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL5	532.902	4496.870	13.11	222	0.46	0.12	449.67	0.0032	0.014
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL7	532.902	4496.870	9.45	222	0.91	0.09	449.67	0.0007	0.003
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL16	532.902	4496.870	13.72	222	0.30	1.01	324.67	0.0034	0.015
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL13	532.902	4496.870	13.41	222	0.30	1.01	324.67	0.0032	0.014
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL12	532.902	4496.870	13.72	222	0.15	0.43	324.67	0.0018	0.008
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL14	532.902	4496.870	9.75	222	0.13	0.18	324.67	0.0011	0.005
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL10	532.902	4496.870	12.80	222	0.30	0.21	324.67	0.0007	0.003
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL15	532.902	4496.870	10.97	222	0.24	0.94	324.67	0.0007	0.003
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL11	532.902	4496.870	9.75	222	0.15	0.40	324.67	0.0007	0.003
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL25	532.902	4496.870	12.80	222	0.40	12.74	294.11	2.0516	8.986
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL17	532.902	4496.870	11.28	222	0.61	4.88	294.11	1.7397	7.620
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL24	532.902	4496.870	11.28	222	0.61	4.88	294.11	1.3721	6.010
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL18	532.902	4496.870	12.80	222	0.40	12.01	294.11	1.2260	5.370
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL19	532.902	4496.870	12.50	222	0.41	8.75	294.11	0.9292	4.070
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL20	532.902	4496.870	13.41	222	0.41	30.94	294.11	0.1776	0.778
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL21	532.902	4496.870	11.28	222	0.61	13.75	294.11	0.1247	0.546
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL26	532.902	4496.870	7.62	222	0.36	4.02	294.11	0.0384	0.168
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL22	532.902	4496.870	14.32	222	0.41	9.11	294.11	0.0089	0.039
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL23	532.902	4496.870	13.41	222	0.41	9.11	294.11	0.0059	0.026
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL27	532.902	4496.870	10.36	222	0.15	0.88	294.11	0.0918	0.402
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL28	532.902	4496.870	10.06	222	0.61	0.98	294.11	0.0639	0.280
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL29	532.902	4496.870	3.05	222	0.00	0.00	295.22	0.4858	2.128
WV	Marshall	BAYER CORPORATION	BAYR1	514.656	4396.473	3.05	195	0.40	11.61	294.11	0.0461	0.202
WV	Marshall	BAYER CORPORATION	BAYR2	514.656	4396.473	25.60	195	0.25	3.81	294.11	0.0132	0.058
WV	Marshall	BAYER CORPORATION	BAYR3	514.656	4396.473	15.24	195	1.83	13.81	431.89	0.1689	0.740
WV	Marshall	BAYER CORPORATION	BAYR19	514.656	4396.473	40.23	195	1.01	15.64	383.56	0.5000	2.190
WV	Marshall	BAYER CORPORATION	BAYR15	514.656	4396.473	39.32	195	0.89	7.50	523.00	0.1970	0.863
WV	Marshall	BAYER CORPORATION	BAYR16	514.656	4396.473	29.26	195	0.65	12.80	423.00	0.1568	0.687
WV	Marshall	BAYER CORPORATION	BAYR11	514.656	4396.473	32.92	195	0.51	15.36	288.56	0.0836	0.366
WV	Marshall	BAYER CORPORATION	BAYR4	514.656	4396.473	28.35	195	0.55	1.55	288.56	0.0594	0.260
WV	Marshall	BAYER CORPORATION	BAYR18	514.656	4396.473	40.23	195	0.30	9.08	323.00	0.0571	0.250
WV	Marshall	BAYER CORPORATION	BAYR14	514.656	4396.473	39.32	195	0.69	3.57	373.00	0.0434	0.190
WV	Marshall	BAYER CORPORATION	BAYR12	514.656	4396.473	29.26	195	0.37	15.36	288.56	0.0434	0.190
WV	Marshall	BAYER CORPORATION	BAYR9	514.656	4396.473	32.92	195	0.49	17.65	288.56	0.0404	0.177
WV	Marshall	BAYER CORPORATION	BAYR21	514.656	4396.473	3.05	195	0.00	0.00	295.22	0.0379	0.166
WV	Marshall	BAYER CORPORATION	BAYR10	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.0352	0.154
WV	Marshall	BAYER CORPORATION	BAYR5	514.656	4396.473	33.53	195	0.40	14.48	294.11	0.0244	0.107
WV	Marshall	BAYER CORPORATION	BAYR7	514.656	4396.473	32.92	195	0.46	16.92	288.56	0.0244	0.107

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WV	Marshall	BAYER CORPORATION	BAYR13	514.656	4396.473	39.32	195	0.69	3.57	423.00	0.0217	0.095
WV	Marshall	BAYER CORPORATION	BAYR6	514.656	4396.473	32.92	195	0.37	15.24	288.56	0.0217	0.095
WV	Marshall	BAYER CORPORATION	BAYR8	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.0217	0.095
WV	Marshall	BAYER CORPORATION	BAYR17	514.656	4396.473	32.00	195	0.41	15.03	334.11	0.0189	0.083
WV	Marshall	BAYER CORPORATION	BAYR20	514.656	4396.473	27.13	195	0.25	10.42	293.00	0.0183	0.080
WV	Marshall	BAYER CORPORATION	BAYR22	514.656	4396.473	30.48	195	0.46	27.43	327.44	0.0685	0.300
WV	Marshall	BAYER CORPORATION	BAYR23	514.656	4396.473	15.24	195	1.83	8.63	453.00	0.1073	0.470
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA1	530.320	4401.846	7.31	234	0.46	8.29	449.67	0.0183	0.080
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA2	530.320	4401.846	10.06	234	0.46	21.73	644.11	0.3128	1.370
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA3	530.320	4401.846	10.97	234	0.70	21.09	644.11	0.4630	2.028
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA4	530.320	4401.846	6.10	234	0.10	5.56	810.78	0.0071	0.031
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA5	530.320	4401.846	4.57	234	0.30	5.36	449.67	0.0091	0.040
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM1	540.909	4423.761	0.61	259	0.61	2.96	449.67	0.0091	0.040
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM2	540.909	4423.761	6.10	259	0.05	5.56	810.78	0.0142	0.062
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM3	540.909	4423.761	6.71	259	0.30	19.63	588.56	0.0699	0.306
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC1	515.324	4405.464	60.96	194	1.28	25.08	477.44	11.8721	52.000
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC2	515.324	4405.464	39.62	194	1.22	0.73	463.56	0.0089	0.039
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC3	515.324	4405.464	24.38	194	0.36	17.59	338.56	0.3219	1.410
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC4	515.324	4405.464	21.03	194	0.30	5.82	305.22	0.8265	3.620
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC5	515.324	4405.464	28.04	194	0.30	16.31	338.56	0.5046	2.210
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC6	515.324	4405.464	21.33	194	0.23	13.11	296.89	0.8333	3.650
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC7	515.324	4405.464	21.64	194	0.66	2.26	296.89	0.3037	1.330
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC8	515.324	4405.464	28.95	194	0.61	16.18	449.67	0.5046	2.210
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC9	515.324	4405.464	21.33	194	0.56	19.32	449.67	0.3288	1.440
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC10	515.324	4405.464	24.08	194	0.56	19.32	449.67	3.3196	14.540
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC11	515.324	4405.464	18.29	194	0.36	6.52	338.56	3.3196	14.540
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC12	515.324	4405.464	23.77	194	0.30	17.07	296.89	2.0822	9.120
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC13	515.324	4405.464	7.62	194	0.61	11.43	644.11	0.0457	0.200
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC14	515.324	4405.464	23.47	194	0.76	1.16	463.56	0.0096	0.042
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC15	515.324	4405.464	7.62	194	0.51	21.00	644.11	0.0055	0.024
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC16	515.324	4405.464	60.96	194	1.49	8.66	588.56	0.0064	0.028
WV	Marshall	PPG INDUSTRIES, INC.	PPG1	513.624	4398.580	68.58	195	4.88	6.71	441.33	0.6304	2.761
WV	Marshall	PPG INDUSTRIES, INC.	PPG2	513.624	4398.580	90.83	195	2.74	24.38	445.78	0.5616	2.460
WV	Marshall	PPG INDUSTRIES, INC.	PPG3	513.624	4398.580	30.48	195	0.20	0.18	1399.67	0.0030	0.013
WV	Marshall	PPG INDUSTRIES, INC.	PPG4	513.624	4398.580	30.48	195	0.91	2.80	505.22	0.2009	0.880
WV	Marshall	PPG INDUSTRIES, INC.	PPG5	513.624	4398.580	30.48	195	0.30	1.89	1477.44	0.0002	0.001
WV	Marshall	PPG INDUSTRIES, INC.	PPG6	513.624	4398.580	19.81	195	0.25	38.10	1477.44	0.0001	0.001
WV	Marshall	PPG INDUSTRIES, INC.	PPG7	513.624	4398.580	49.38	195	1.37	1.46	533.00	0.0822	0.360
WV	Marshall	PPG INDUSTRIES, INC.	PPG8	513.624	4398.580	11.89	195	0.46	0.09	699.67	0.0183	0.080
WV	Marshall	PPG INDUSTRIES, INC.	PPG9	513.624	4398.580	10.67	195	0.05	35.05	1477.44	0.0002	0.001

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WV	Marshall	PPG INDUSTRIES, INC.	PPG10	513.624	4398.580	30.48	195	0.76	10.27	685.78	0.0283	0.124
WV	Marshall	PPG INDUSTRIES, INC.	PPG11	513.624	4398.580	3.05	195	0.00	0.00	295.22	4.0731	17.840
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC1	515.487	4409.682	57.91	200	3.81	19.54	1219.11	44.6306	195.482
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC2	515.487	4409.682	57.91	200	3.81	22.19	1252.44	63.8253	279.555
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC4	515.487	4409.682	3.66	200	0.48	10.06	288.56	0.0158	0.069
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC3	515.487	4409.682	9.14	200	0.25	9.14	288.56	0.0087	0.038
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC5	515.487	4409.682	36.27	200	1.52	21.00	469.67	15.1027	66.150
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC6	515.487	4409.682	32.00	200	1.22	0.61	471.89	0.0429	0.188
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC9	515.487	4409.682	10.97	200	0.45	12.19	310.78	0.1388	0.608
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC8	515.487	4409.682	15.24	200	0.45	17.07	310.78	0.1231	0.539
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC11	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.1164	0.510
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC7	515.487	4409.682	5.79	200	0.55	18.29	288.56	0.0712	0.312
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC15	515.487	4409.682	76.50	200	0.33	19.51	299.67	0.0676	0.296
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC14	515.487	4409.682	32.31	200	0.33	19.81	299.67	0.0648	0.284
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC10	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.0582	0.255
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC12	515.487	4409.682	37.49	200	0.24	11.58	288.56	0.0582	0.255
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC13	515.487	4409.682	10.97	200	0.58	5.49	288.56	0.0059	0.026
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC18	515.487	4409.682	17.68	200	0.30	16.15	288.56	0.0158	0.069
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC17	515.487	4409.682	18.59	200	0.34	10.06	288.56	0.0094	0.041
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC19	515.487	4409.682	3.96	200	0.27	13.11	288.56	0.0032	0.014
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC16	515.487	4409.682	9.45	200	0.49	19.20	288.56	0.0025	0.011
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC20	515.487	4409.682	5.79	200	0.70	20.73	288.56	0.2370	1.038
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC21	515.487	4409.682	29.87	200	0.30	5.49	288.56	0.0283	0.124
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC22	515.487	4409.682	29.87	200	0.30	3.05	288.56	0.0158	0.069
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC23	515.487	4409.682	28.04	200	0.30	3.05	288.56	0.0128	0.056
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC24	515.487	4409.682	28.35	200	0.22	19.81	288.56	0.0742	0.325
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC25	515.487	4409.682	3.05	200	0.00	0.00	295.22	4.0171	17.595
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL1	560.001	4396.138	0.30	309	0.30	3.78	255.22	1.1258	4.931
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL2	560.001	4396.138	27.43	309	2.44	14.32	324.11	2.7192	11.910
WV	Ohio	SHORT CREEK LANDFILL	SHRTCR	530.663	4444.246	3.05	331	0.00	0.00	295.22	0.5525	2.420
			EGUs									
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES1	554.452	4500.526	68.58	241	2.38	14.90	441.49	46.0380	201.646
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES2	554.452	4500.526	68.58	241	1.46	19.60	441.49	5.4556	23.896
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST1	629.178	4532.009	307.22	255	4.45	23.40	449.27	402.5383	1763.118
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST2	629.178	4532.009	0.61	255	0.01	0.00	295.38	14.9590	65.520
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM1	549.486	4498.347	289.55	225	5.79	87.43	324.67	235.3990	1031.048
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM2	549.362	4498.154	182.87	225	5.79	40.60	323.00	126.4666	553.924
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM3	549.048	4498.335	0.61	241	0.01	0.00	295.38	2.7934	12.235
OH	Belmont	R. E. BURGER PLANT	BURG2	520.417	4417.673	259.07	215	6.55	25.20	439.30	488.9100	2141.426
OH	Belmont	R. E. BURGER PLANT	BURG3	520.417	4417.673	36.88	194	1.19	5.60	402.05	0.5974	2.617

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OH	Belmont	R. E. BURGER PLANT	BURG4	520.417	4417.673	38.71	194	1.43	7.20	430.94	0.3058	1.339
OH	Belmont	R. E. BURGER PLANT	BURG5	520.417	4417.673	23.16	194	1.04	10.50	322.05	0.9589	4.200
OH	Belmont	R. E. BURGER PLANT	BURG6	520.417	4417.673	18.90	194	0.70	15.60	337.60	0.4338	1.900
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD1	529.860	4455.801	251.45	203	6.71	2.70	447.05	372.2640	1630.516
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD2	529.860	4455.801	251.45	203	6.71	2.50	447.05	312.6330	1369.333
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD3	529.860	4455.801	40.54	203	1.52	30.50	616.49	0.0023	0.010
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD4	529.860	4455.801	21.33	203	1.83	41.10	614.83	0.0297	0.130
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD5	529.228	4454.692	274.31	203	7.31	3.10	430.38	131.2807	575.009
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD6	529.860	4455.801	38.71	203	1.43	7.20	430.94	0.0068	0.030
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD7	529.860	4455.801	36.88	203	1.19	5.60	402.05	0.0015	0.007
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD8	529.860	4455.801	21.33	203	1.13	11.30	319.27	1.4452	6.330
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES1	602.379	4488.086	228.60	232	6.40	32.00	421.90	133.3000	583.854
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES2	602.455	4488.109	60.96	232	0.60	28.00	629.83	0.0091	0.040
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES3	602.296	4487.985	16.46	232	0.46	9.50	295.38	0.1509	0.661
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES4	602.296	4487.985	10.06	232	0.79	16.20	295.38	0.2236	0.979
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES5	602.296	4487.985	15.24	232	1.07	3.10	295.38	0.6254	2.739
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES6	602.296	4487.985	28.95	232	0.52	9.90	295.38	0.2843	1.245
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES7	602.296	4487.985	17.07	232	0.70	16.50	295.38	0.1601	0.701
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART1	592.901	4394.989	167.63	245	7.16	23.50	415.94	1126.4820	4933.991
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART2	592.901	4394.989	67.05	245	2.01	8.00	569.27	0.0212	0.093
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART3	592.901	4394.989	3.05	245	0.00	0.00	295.38	49.2290	215.623
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF1	591.802	4412.271	213.35	262	5.24	19.90	423.16	2150.4530	9418.984
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF2	591.802	4412.271	0.61	262	0.01	0.00	295.38	24.2010	106.000
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER1	652.765	4486.326	243.83	366	7.31	26.00	427.60	1431.2700	6268.963
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER2	652.765	4486.326	260.29	366	8.23	19.10	441.49	111.3050	487.516
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER3	652.765	4486.326	0.61	366	0.01	0.00	295.38	15.8470	69.410
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM1	515.468	4410.652	274.31	194	7.01	29.90	427.60	477.0550	2089.501
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM2	515.468	4410.652	3.05	194	0.00	0.00	295.38	1.0046	4.400
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST1	640.174	4502.359	243.83	308	8.30	26.80	422.40	1986.4900	8700.826
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST2	640.174	4502.359	83.82	310	2.13	15.90	616.49	0.1262	0.553
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST3	640.174	4502.359	5.49	310	1.22	9.50	699.83	0.1553	0.680
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST4	640.174	4502.359	0.61	310	0.01	0.00	295.38	17.2600	75.599
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA1	553.211	4532.067	228.59	241	6.90	16.20	394.10	300.4014	1315.758
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA2	553.211	4532.067	6.10	241	1.10	23.40	616.30	0.0081	0.035
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA3	553.211	4532.067	0.61	243	0.01	0.00	295.38	2.1614	9.467
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT1	515.719	4408.910	365.74	194	10.06	32.90	428.72	528.6890	2315.658
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT3	515.719	4408.910	3.05	194	0.00	0.00	295.38	1.1644	5.100
OH	Jefferson	W. H. SAMMIS PLANT	SAMM0	531.193	4486.911	153.61	210	6.10	24.71	428.00	229.9400	1007.137
OH	Jefferson	W. H. SAMMIS PLANT	SAMM1	531.243	4486.781	304.79	210	8.15	20.75	420.78	546.2500	2392.575
OH	Jefferson	W. H. SAMMIS PLANT	SAMM2	531.100	4486.705	6.10	209	1.04	13.80	669.83	0.0388	0.170

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OH	Jefferson	W. H. SAMMIS PLANT	SAMM3	531.175	4486.960	153.61	210	6.40	21.86	428.00	229.9400	1007.137
OH	Jefferson	W. H. SAMMIS PLANT	SAMM5	531.214	4486.853	259.07	210	9.50	23.73	419.00	292.7800	1282.376
OH	Jefferson	W. H. SAMMIS PLANT	SAMM6	531.236	4486.584	38.71	209	1.43	7.20	430.94	0.0904	0.396
OH	Jefferson	W. H. SAMMIS PLANT	SAMM7	531.236	4486.584	36.88	209	1.19	5.60	402.05	3.3141	14.516
OH	Jefferson	W. H. SAMMIS PLANT	SAMM8	531.236	4486.584	16.76	209	0.43	4.10	307.05	18.2190	79.799
OH	Jefferson	W. H. SAMMIS PLANT	SAMM9	531.236	4486.584	23.16	209	1.04	10.50	322.05	0.4566	2.000
OH	Jefferson	W. H. SAMMIS PLANT	SAMM10	531.236	4486.584	26.21	209	0.79	8.30	308.72	0.1142	0.500
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM1	592.001	4456.411	119.48	229	7.92	15.10	324.70	123.3790	540.400
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM2	592.001	4456.411	0.61	233	0.01	0.00	295.38	3.5160	15.4000
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL1	587.739	4452.830	114.27	228	6.10	19.20	423.16	39.5204	173.100
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL2	587.739	4452.830	58.82	228	4.27	7.90	463.72	0.0137	0.0600
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL3	587.739	4452.830	45.72	228	1.07	7.00	469.27	0.0023	0.0100
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL4	587.739	4452.830	0.61	228	0.01	0.00	295.38	3.8584	16.900

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Pennsylvania Sources (w/o EGUs)												
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN1	640.162	4500.738	7.62	425	0.61	13.58	533.00	0.0078	0.034
PA	Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	ARMEN2	640.162	4500.738	17.37	425	3.49	18.82	663.00	4.1056	17.982
PA	Armstrong	DLR MINING INC/TRIPLE K #1 DEEP MINE	DLRMIN	629.518	4503.354	8.53	256	0.38	22.38	603.56	0.0497	0.218
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR1	638.919	4499.837	10.36	325	0.30	27.00	688.56	0.1418	0.621
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR2	638.919	4499.837	10.06	325	0.30	22.90	533.00	0.0473	0.207
PA	Armstrong	DOMINION PEOPLES/GIRTY STA	DOMGR3	638.919	4499.837	9.14	325	0.49	20.86	633.00	0.1182	0.518
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL1	637.874	4516.864	7.31	331	0.21	24.40	810.78	0.0247	0.108
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL2	637.874	4516.864	9.45	331	0.30	26.70	666.33	0.0709	0.311
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL3	637.874	4516.864	9.14	331	0.49	20.86	633.00	0.1431	0.627
PA	Armstrong	DOMINION PEOPLES/VALLEY STA	DOMVL4	637.874	4516.864	9.45	331	0.30	23.10	560.78	0.0473	0.207
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB1	638.919	4499.837	7.92	325	0.52	28.90	588.56	0.0587	0.257
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB2	638.919	4499.837	7.92	325	0.52	27.30	588.56	0.0473	0.207
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB3	638.919	4499.837	7.92	325	0.52	26.80	588.56	0.0473	0.207
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB4	638.919	4499.837	7.92	325	0.52	27.60	588.56	0.0236	0.104
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB5	638.919	4499.837	7.92	325	0.52	26.00	588.56	0.0236	0.104
PA	Armstrong	DOMINION TRANS INC/SOUTH BEND STA	DOMSB6	638.919	4499.837	7.92	325	0.61	1.62	449.67	0.0247	0.108
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR1	624.097	4515.065	7.62	238	0.76	28.61	385.78	0.0545	0.239
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR2	624.097	4515.065	17.98	238	0.46	1.76	560.78	0.0159	0.070
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR3	624.097	4515.065	17.07	238	0.46	1.76	560.78	0.0308	0.135
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR4	624.097	4515.065	21.64	238	0.76	1.53	560.78	0.0363	0.159
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR5	624.097	4515.065	9.45	238	0.61	1.92	560.78	0.0935	0.410
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR6	624.097	4515.065	8.53	238	0.61	2.04	560.78	0.0337	0.148
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR7	624.097	4515.065	8.84	238	0.61	1.67	560.78	0.0312	0.137
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR8	624.097	4515.065	10.06	238	0.91	0.26	560.78	0.0156	0.068
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR9	624.097	4515.065	13.11	238	1.22	0.21	560.78	0.0467	0.205
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR10	624.097	4515.065	14.32	238	1.22	0.31	560.78	0.0260	0.114
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR11	624.097	4515.065	7.62	238	0.46	21.56	294.11	2.2715	9.949
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR12	624.097	4515.065	8.23	238	0.61	12.13	294.11	1.0095	4.422
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR13	624.097	4515.065	10.97	238	0.30	19.40	294.11	0.3912	1.714
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR14	624.097	4515.065	10.67	238	0.73	10.26	324.67	2.5314	11.088
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR15	624.097	4515.065	8.53	238	0.46	14.37	294.11	0.5149	2.255
PA	Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	ELJR16	624.097	4515.065	0.61	238	1.04	14.20	295.22	0.0914	0.400
PA	Armstrong	EQUITABLE GAS CO/SHOEMAKER	EQSHM	622.399	4512.627	5.49	245	0.61	21.61	621.89	0.0820	0.359
PA	Armstrong	EQUITABLE GAS CO/VILLAGE STATION	EQVIL	639.997	4516.215	8.23	420	0.44	17.46	669.11	0.0128	0.056
PA	Armstrong	EQUITRANS INC/ATWOOD BOOSTER STA 16	EQTNAT	646.099	4513.257	6.10	254	0.91	2.60	533.00	0.0642	0.281
PA	Armstrong	EQUITRANS INC/CROOKED CREEK COMPRES S	EQTNCC	623.998	4508.412	6.10	254	0.91	2.60	533.00	0.1605	0.703
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP1	610.750	4504.472	10.97	239	0.94	26.59	483.00	0.1570	0.688
PA	Armstrong	FREEPORT BRICK CO/FREEPORT BORO	FREEP2	610.750	4504.472	7.62	239	0.70	15.12	295.22	0.0123	0.054
PA	Armstrong	KEYSTONE COAL MINING/KEYSTONE	KEYCO	639.689	4502.517	22.86	305	1.13	11.34	295.22	2.2050	9.658

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PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR1	628.861	4532.747	12.50	430	0.59	6.38	491.33	0.0071	0.031
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR2	628.861	4532.747	13.11	430	1.10	13.79	456.33	0.0606	0.265
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR3	628.861	4532.747	9.45	430	0.77	8.66	565.78	0.0544	0.238
PA	Armstrong	KITTANNING BRICK CO/REESEDALE	KITBR4	628.861	4532.747	12.50	430	0.67	17.22	308.00	0.0253	0.111
PA	Armstrong	NATL FUEL GAS SUPPLY/KAYLOR STA	NATFG	616.437	4533.506	8.23	401	0.44	17.46	669.11	0.0148	0.065
PA	Armstrong	VISTA METALS/KITTANNING PLT	VISTA	621.796	4518.958	6.10	359	0.64	8.72	295.22	0.0290	0.127
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH1	560.718	4504.582	0.61	226	0.55	5.49	295.22	0.6179	2.706
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH2	560.718	4504.582	30.48	226	1.52	1.32	699.67	11.7045	51.266
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH3	560.718	4504.582	12.19	226	1.04	14.20	295.22	0.0318	0.139
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH4	560.718	4504.582	12.19	226	0.94	11.64	295.22	0.0967	0.424
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH5	560.718	4504.582	15.85	226	0.69	10.52	335.78	0.1810	0.793
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH6	560.718	4504.582	30.48	226	1.52	8.97	473.56	0.0351	0.154
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH7	560.718	4504.582	11.28	226	0.54	6.31	500.78	0.0289	0.127
PA	Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	ANCH8	560.718	4504.582	17.68	226	0.98	11.38	466.33	0.0123	0.054
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW1	557.038	4511.680	18.29	237	0.70	7.94	421.89	0.0494	0.216
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW2	557.038	4511.680	12.50	237	0.72	7.17	314.67	2.8015	12.271
PA	Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	ARMW3	557.038	4511.680	0.61	237	0.43	6.55	295.22	0.0494	0.216
PA	Beaver	BASF CORP/MONACA PLT	BASFM1	555.301	4501.276	12.19	227	0.09	1.44	294.11	0.0134	0.059
PA	Beaver	BASF CORP/MONACA PLT	BASFM2	555.301	4501.276	12.19	227	1.98	8.28	1060.78	0.0015	0.007
PA	Beaver	CENTRIA/CENTRIA	CNTRA	567.555	4508.227	26.21	231	0.76	1.03	477.44	0.0305	0.134
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM1	557.395	4504.911	14.93	236	1.43	4.47	449.67	0.0473	0.207
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM2	557.395	4504.911	14.93	236	0.61	24.68	449.67	0.0236	0.104
PA	Beaver	CUTLER HAMMER/BEAVER	CUTHM3	557.395	4504.911	9.75	236	0.71	7.16	325.78	0.0098	0.043
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL1	548.126	4517.856	8.23	277	0.98	12.73	538.56	0.4988	2.185
PA	Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	DARL2	548.126	4517.856	13.11	277	1.10	13.79	456.33	0.1658	0.726
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB1	563.302	4513.740	9.45	330	0.61	12.94	505.22	0.0027	0.012
PA	Beaver	DOMINION TRANS INC/BEAVER	DOMB2	563.302	4513.740	15.85	330	0.91	7.19	644.11	0.6856	3.003
PA	Beaver	ENGINEERED POLYMER S/ROCHESTER	ENGPL	561.882	4514.961	10.36	361	1.06	7.93	390.78	0.4676	2.048
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS1	556.078	4502.403	31.39	238	2.22	3.64	320.22	0.1151	0.504
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS2	556.078	4502.403	30.48	238	0.55	16.40	294.11	0.1180	0.517
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS3	556.078	4502.403	18.29	238	1.83	5.39	311.33	0.2015	0.882
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS4	556.078	4502.403	121.91	238	5.39	12.00	365.22	1.9803	8.674
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS5	556.078	4502.403	15.24	238	0.30	5.98	294.11	0.0055	0.024
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS6	556.078	4502.403	34.14	238	1.52	7.76	366.33	0.3453	1.513
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS7	556.078	4502.403	19.20	238	0.40	15.10	338.56	0.0328	0.144
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS8	556.078	4502.403	19.20	238	0.40	6.58	338.56	0.0147	0.064
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS9	556.078	4502.403	60.96	238	3.35	12.10	344.11	0.7019	3.075
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS10	556.078	4502.403	36.88	238	2.13	16.50	352.44	0.5865	2.569
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS11	556.078	4502.403	31.70	238	2.07	14.00	321.89	2.6149	11.453
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS12	556.078	4502.403	31.70	238	2.07	19.60	349.67	0.8864	3.883

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PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS13	556.078	4502.403	31.09	238	1.83	17.30	294.11	0.6884	3.015
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS14	556.078	4502.403	16.46	238	0.58	17.90	294.11	0.0863	0.378
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS15	556.078	4502.403	12.80	238	0.79	6.22	294.11	0.1151	0.504
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS16	556.078	4502.403	13.72	238	1.43	14.60	294.11	0.4605	2.017
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS17	556.078	4502.403	22.86	238	1.07	18.50	471.89	0.1474	0.645
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS18	556.078	4502.403	22.86	238	1.68	8.06	394.11	0.1474	0.645
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS19	556.078	4502.403	22.86	238	1.22	14.20	355.22	0.1474	0.645
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS20	556.078	4502.403	21.94	238	0.91	28.80	394.11	0.3834	1.679
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS21	556.078	4502.403	20.73	238	1.23	19.90	370.78	0.1888	0.827
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS22	556.078	4502.403	14.63	238	1.31	25.30	394.11	0.3407	1.492
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS23	556.078	4502.403	12.80	238	1.31	25.30	394.11	0.1704	0.746
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS24	556.078	4502.403	19.20	238	0.55	14.80	294.11	0.0432	0.189
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS25	556.078	4502.403	7.92	238	0.46	7.19	338.56	0.0144	0.063
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS26	556.078	4502.403	18.29	238	1.01	17.80	294.11	0.4403	1.929
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS27	556.078	4502.403	13.41	238	0.30	23.50	294.11	0.0777	0.340
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS28	556.078	4502.403	18.29	238	0.91	11.20	294.11	0.0863	0.378
PA	Beaver	HORSEHEAD CORP/MONACA SMELTER	HORS29	556.078	4502.403	19.51	238	1.52	9.06	394.11	0.2302	1.008
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL1	545.577	4498.790	14.02	233	0.91	13.03	438.56	0.1704	0.747
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL2	545.577	4498.790	11.28	233	0.56	6.28	494.11	0.0053	0.023
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL3	545.577	4498.790	25.91	233	3.74	9.10	350.22	1.6267	7.125
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL4	545.577	4498.790	4.57	233	0.91	10.93	294.11	0.2476	1.084
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL5	545.577	4498.790	17.37	233	0.86	7.80	551.33	0.1614	0.707
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL6	545.577	4498.790	17.68	233	1.07	10.92	400.78	3.4935	15.302
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL7	545.577	4498.790	17.37	233	0.90	5.79	316.89	1.2544	5.494
PA	Beaver	JEWEL ACQUISITION/MIDLAND FAC	JEWL8	545.577	4498.790	17.68	233	1.04	8.42	497.44	0.1680	0.736
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA1	557.457	4520.775	38.10	238	3.29	0.17	699.67	0.1268	0.555
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA2	557.457	4520.775	16.46	238	1.22	0.04	755.22	0.0766	0.335
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA3	557.457	4520.775	17.37	238	0.86	7.80	551.33	0.0789	0.346
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA4	557.457	4520.775	17.68	238	0.98	11.38	466.33	0.0598	0.262
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA5	557.457	4520.775	17.68	238	1.07	10.92	400.78	0.0383	0.168
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA6	557.457	4520.775	19.51	238	0.61	10.92	755.22	0.0060	0.026
PA	Beaver	KOPPEL STEEL CORP/AMBRIDGE	KOPLA7	557.457	4520.775	11.28	238	0.54	6.31	500.78	5.2664	23.067
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK1	557.466	4520.731	16.46	277	1.22	4.29	755.22	0.0464	0.203
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK2	557.466	4520.731	16.46	277	1.22	3.10	755.22	0.0168	0.073
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK3	557.466	4520.731	30.48	277	3.05	17.43	338.56	0.0834	0.365
PA	Beaver	KOPPEL STEEL CORP/KOPPEL	KOPLK4	557.466	4520.731	14.32	277	0.63	9.04	321.33	0.1077	0.472
PA	Beaver	NGC IND/SHIPPINGPORT	NGC1	549.334	4497.294	9.14	240	0.61	16.17	449.67	0.7484	3.278
PA	Beaver	NGC IND/SHIPPINGPORT	NGC2	549.334	4497.294	17.68	240	0.98	11.38	466.33	0.6768	2.964
PA	Beaver	NGC IND/SHIPPINGPORT	NGC3	549.334	4497.294	0.61	240	0.52	12.19	295.22	0.8101	3.548
PA	Beaver	NGC IND/SHIPPINGPORT	NGC4	549.334	4497.294	17.98	240	0.52	11.87	294.11	1.0259	4.494

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PA	Beaver	NGC IND/SHIPPINGPORT	NGC5	549.334	4497.294	17.98	240	0.52	3.96	294.11	0.3393	1.486
PA	Beaver	NGC IND/SHIPPINGPORT	NGC6	549.334	4497.294	17.98	240	0.46	14.09	294.11	0.9478	4.152
PA	Beaver	NGC IND/SHIPPINGPORT	NGC7	549.334	4497.294	13.72	240	0.46	18.97	294.11	1.2737	5.579
PA	Beaver	NGC IND/SHIPPINGPORT	NGC8	549.334	4497.294	18.29	240	0.30	5.17	294.11	0.1589	0.696
PA	Beaver	NGC IND/SHIPPINGPORT	NGC9	549.334	4497.294	0.61	240	0.43	4.54	295.22	1.6749	7.336
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK1	562.994	4501.215	17.68	217	1.04	8.42	497.44	0.0211	0.093
PA	Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NFLK2	562.994	4501.215	0.61	217	1.16	6.80	295.22	0.7287	3.192
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA1	554.452	4500.526	12.19	230	1.46	21.90	510.78	0.1120	0.491
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA2	554.452	4500.526	30.17	230	0.61	3.03	1255.22	0.0011	0.005
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA3	554.452	4500.526	0.61	230	0.49	8.96	295.22	0.0054	0.024
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA4	554.452	4500.526	9.45	230	0.44	5.43	326.89	0.2981	1.306
PA	Beaver	NOVA CHEM CO/BEAVER	NOVA5	554.452	4500.526	0.61	230	0.64	8.72	295.22	0.5566	2.438
PA	Beaver	SCA PKG NORTH AMERICA /NEW BRIGHTN FAC	SCAPKG	558.798	4510.106	7.62	237	0.61	5.87	488.56	0.0494	0.216
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP1	543.843	4493.285	20.73	231	0.46	28.75	294.11	1.4172	6.207
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP2	543.843	4493.285	3.05	231	0.52	12.19	295.22	0.1539	0.674
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP3	543.843	4493.285	30.17	231	0.61	18.04	333.00	1.8495	8.101
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP4	543.843	4493.285	16.46	231	2.59	15.31	368.00	0.1247	0.546
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP5	543.843	4493.285	17.68	231	0.98	11.38	466.33	1.2532	5.489
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP6	543.843	4493.285	30.48	231	1.55	15.72	377.44	4.9257	21.575
PA	Beaver	US GYPSUM CO/ALIQUIPPA	USGYP7	543.843	4493.285	7.62	231	0.27	15.97	588.56	0.0057	0.025
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF1	546.953	4497.933	17.68	237	1.07	10.92	400.78	0.0926	0.406
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF2	546.953	4497.933	7.92	237	0.69	14.18	302.44	1.0391	4.551
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF3	546.953	4497.933	12.19	237	1.83	21.56	366.33	1.1089	4.857
PA	Beaver	WHEMCO FOUNDRY/MIDLAND	WHEMF4	546.953	4497.933	0.61	237	0.82	7.86	295.22	0.1457	0.638
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST1	589.150	4520.346	17.68	296	1.22	1.55	533.00	0.0815	0.357
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST2	589.150	4520.346	9.14	296	0.91	4.41	533.00	0.0692	0.303
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST3	589.150	4520.346	19.51	296	1.52	3.54	505.22	0.0840	0.368
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST4	589.150	4520.346	19.51	296	1.52	4.54	505.22	0.0840	0.368
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST5	589.150	4520.346	19.51	296	1.52	5.78	505.22	0.1284	0.563
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST6	589.150	4520.346	4.57	296	0.61	7.75	494.11	0.0766	0.335
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST7	589.150	4520.346	11.28	296	0.56	6.28	494.11	2.2661	9.925
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST8	589.150	4520.346	18.29	296	0.61	12.90	321.89	0.4830	2.116
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST9	589.150	4520.346	19.81	296	2.74	11.20	299.67	3.6834	16.133
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST10	589.150	4520.346	22.25	296	1.75	7.53	645.22	0.8900	3.898
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST11	589.150	4520.346	45.72	296	1.16	25.40	1079.67	0.3302	1.446
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST12	589.150	4520.346	15.24	296	0.98	13.42	310.78	0.2940	1.288
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST13	589.150	4520.346	19.51	296	0.76	17.10	310.78	0.7154	3.133
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST14	589.150	4520.346	16.76	296	0.76	15.52	310.78	0.3357	1.470
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST15	589.150	4520.346	17.37	296	0.90	5.79	316.89	4.1557	18.202
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST16	589.150	4520.346	16.46	296	0.91	12.94	310.78	0.2672	1.171

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PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST17	589.150	4520.346	20.42	296	0.61	13.75	310.78	0.1066	0.467
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST18	589.150	4520.346	0.61	296	1.34	10.52	295.22	0.0510	0.223
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST19	589.150	4520.346	0.61	296	0.82	7.86	295.22	0.0071	0.031
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST20	589.150	4520.346	23.47	296	10.67	3.96	394.11	1.1878	5.203
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST21	589.150	4520.346	24.08	296	1.34	6.64	471.33	0.1870	0.819
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST22	589.150	4520.346	30.48	296	1.13	8.20	295.22	0.2264	0.992
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST23	589.150	4520.346	33.22	296	1.99	11.16	470.22	0.5212	2.283
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST24	589.150	4520.346	0.61	296	1.13	8.20	295.22	0.6762	2.962
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST25	589.150	4520.346	7.31	296	0.55	9.36	296.89	1.9475	8.530
PA	Butler	AK STEEL CORP/BUTLER WORKS	AKST26	589.150	4520.346	17.68	296	1.04	8.42	497.44	0.2939	1.287
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC1	609.655	4516.791	53.34	295	3.66	17.80	513.56	5.7959	25.386
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC2	609.655	4516.791	27.43	295	0.30	16.17	294.11	0.0548	0.240
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC3	609.655	4516.791	22.86	295	0.91	30.19	294.11	0.0383	0.168
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC4	609.655	4516.791	12.19	295	0.61	9.70	294.11	0.0383	0.168
PA	Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	ARMC5	609.655	4516.791	6.10	295	0.91	23.43	366.33	4.1569	18.207
PA	Butler	BASF EVANS CITY OPS	BASFE1	584.284	4522.587	0.61	330	3.17	5.09	295.22	0.7931	3.474
PA	Butler	BASF EVANS CITY OPS	BASFE2	584.284	4522.587	0.61	330	0.61	10.30	295.22	0.2733	1.197
PA	Butler	BASF EVANS CITY OPS	BASFE3	584.284	4522.587	15.54	330	0.47	6.99	345.78	0.0698	0.306
PA	Butler	BASF EVANS CITY OPS	BASFE4	584.284	4522.587	10.67	330	0.15	13.61	294.11	0.0698	0.306
PA	Butler	BASF EVANS CITY OPS	BASFE5	584.284	4522.587	9.14	330	0.91	7.91	294.11	0.1211	0.531
PA	Butler	BASF EVANS CITY OPS	BASFE6	584.284	4522.587	0.61	330	0.91	10.30	295.22	0.0605	0.265
PA	Butler	BASF EVANS CITY OPS	BASFE7	584.284	4522.587	0.61	330	0.61	8.02	295.22	0.0668	0.293
PA	Butler	BASF EVANS CITY OPS	BASFE8	584.284	4522.587	0.61	330	0.82	11.09	295.22	0.0088	0.039
PA	Butler	BASF EVANS CITY OPS	BASFE9	584.284	4522.587	3.96	330	0.46	12.82	449.67	0.0296	0.130
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ1	571.795	4516.016	11.89	275	0.51	13.33	301.33	0.6305	2.761
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ2	571.795	4516.016	7.31	275	0.61	16.17	294.11	0.0007	0.003
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ3	571.795	4516.016	7.31	275	0.61	17.79	294.11	0.0007	0.003
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ4	571.795	4516.016	15.54	275	0.88	9.94	453.56	0.0444	0.194
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ5	571.795	4516.016	21.33	275	0.98	10.74	463.56	0.3653	1.600
PA	Butler	BNZ MATERIALS INC/ZELIENOPLE	BNZ6	571.795	4516.016	13.11	275	1.10	13.79	456.33	0.5311	2.326
PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL1	594.788	4524.591	7.62	309	0.61	16.50	596.89	1.7575	7.698
PA	Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	BUTCL2	594.788	4524.591	4.57	309	0.76	19.92	471.89	1.3565	5.942
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR1	597.798	4525.208	2.44	318	0.55	3.49	413.56	0.0363	0.159
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR2	597.798	4525.208	0.91	318	0.30	11.32	293.00	0.4929	2.159
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR3	597.798	4525.208	8.84	318	0.44	7.24	314.67	0.9058	3.968
PA	Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	CASR4	597.798	4525.208	3.66	318	0.61	2.42	421.89	0.0205	0.090
PA	Butler	CROMPTON CORP/PETROLIA	CROM1	607.816	4540.948	60.96	358	2.74	7.66	588.56	0.6094	2.669
PA	Butler	CROMPTON CORP/PETROLIA	CROM2	607.816	4540.948	9.14	358	0.61	29.40	449.67	0.1532	0.671
PA	Butler	CROMPTON CORP/PETROLIA	CROM3	607.816	4540.948	60.96	358	1.83	7.44	610.78	2.0145	8.824
PA	Butler	CROMPTON CORP/PETROLIA	CROM4	607.816	4540.948	18.29	358	0.61	2.51	588.56	0.2266	0.992

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PA	Butler	CROMPTON CORP/PETROLIA	CROM5	607.816	4540.948	15.24	358	0.61	1.15	694.11	0.0175	0.077
PA	Butler	CROMPTON CORP/PETROLIA	CROM6	607.816	4540.948	15.24	358	0.61	1.29	644.11	0.1071	0.469
PA	Butler	CROMPTON CORP/PETROLIA	CROM7	607.816	4540.948	15.24	358	0.61	1.62	644.11	0.0984	0.431
PA	Butler	CROMPTON CORP/PETROLIA	CROM8	607.816	4540.948	3.05	358	0.30	0.02	921.89	0.2470	1.082
PA	Butler	CROMPTON CORP/PETROLIA	CROM9	607.816	4540.948	9.14	358	2.74	4.75	295.22	2.1632	9.475
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS1	607.874	4541.582	9.14	358	0.76	3.62	421.89	0.0371	0.162
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS2	607.874	4541.582	15.24	358	0.76	3.08	433.00	0.0371	0.162
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS3	607.874	4541.582	26.21	358	1.28	16.13	449.67	0.1729	0.757
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS4	607.874	4541.582	15.54	358	1.83	12.93	434.11	0.2352	1.030
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS5	607.874	4541.582	19.51	358	1.68	14.83	434.11	1.2128	5.312
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS6	607.874	4541.582	22.86	358	0.61	20.34	362.44	1.8226	7.983
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS7	607.874	4541.582	12.19	358	0.61	3.23	366.33	0.6979	3.057
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS8	607.874	4541.582	19.81	358	1.07	15.84	366.33	4.3775	19.174
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS9	607.874	4541.582	18.90	358	1.07	18.40	385.22	2.7532	12.059
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS10	607.874	4541.582	12.19	358	0.30	3.24	366.33	0.1397	0.612
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS11	607.874	4541.582	13.72	358	0.76	10.70	334.67	0.5162	2.261
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS12	607.874	4541.582	21.33	358	0.30	8.26	366.33	0.3125	1.369
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS13	607.874	4541.582	18.90	358	0.30	7.64	349.67	0.1042	0.456
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS14	607.874	4541.582	18.29	358	0.40	5.36	533.00	0.0176	0.077
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS15	607.874	4541.582	10.67	358	0.61	16.17	293.00	0.1215	0.532
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS16	607.874	4541.582	19.51	358	0.43	14.90	394.11	1.6652	7.293
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS17	607.874	4541.582	18.90	358	0.24	9.10	394.11	0.8326	3.647
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS18	607.874	4541.582	17.37	358	0.37	16.80	394.11	1.6162	7.079
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS19	607.874	4541.582	11.89	358	0.39	4.97	307.44	0.5054	2.214
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS20	607.874	4541.582	12.19	358	0.21	13.20	588.56	0.0005	0.002
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS21	607.874	4541.582	13.41	358	0.30	2.90	355.22	0.0881	0.386
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS22	607.874	4541.582	15.54	358	0.47	6.99	345.78	3.0229	13.241
PA	Butler	INDSPEC CHEM CORP/PETROLIA	INDS23	607.874	4541.582	8.23	358	0.43	18.35	527.44	0.1881	0.824
PA	Butler	NAPCO INC/VALENCIA	NAPC1	590.144	4508.723	12.19	320	0.43	6.55	295.22	0.0238	0.104
PA	Butler	NAPCO INC/VALENCIA	NAPC2	590.144	4508.723	16.15	320	1.01	26.30	966.33	0.0511	0.224
PA	Butler	PENRECO/KARNS CITY	PENR1	607.229	4539.107	18.59	369	1.13	9.36	577.44	0.0711	0.311
PA	Butler	PENRECO/KARNS CITY	PENR2	607.229	4539.107	19.51	369	1.22	13.22	549.67	4.1355	18.114
PA	Butler	PENRECO/KARNS CITY	PENR3	607.229	4539.107	21.94	369	1.22	13.46	560.78	4.5259	19.824
PA	Butler	PENRECO/KARNS CITY	PENR4	607.229	4539.107	17.37	369	0.70	4.65	810.78	0.1003	0.439
PA	Butler	PENRECO/KARNS CITY	PENR5	607.229	4539.107	16.76	369	0.55	2.40	1144.11	0.0668	0.293
PA	Butler	PENRECO/KARNS CITY	PENR6	607.229	4539.107	12.50	369	0.61	1.45	699.67	0.0466	0.204
PA	Butler	PENRECO/KARNS CITY	PENR7	607.229	4539.107	16.76	369	0.46	13.51	1144.11	0.8277	3.626
PA	Butler	PENRECO/KARNS CITY	PENR8	607.229	4539.107	30.48	369	0.64	8.38	295.22	0.0655	0.287
PA	Butler	PENRECO/KARNS CITY	PENR9	607.229	4539.107	30.48	369	1.16	5.79	295.22	0.0880	0.386
PA	Butler	PENRECO/KARNS CITY	PENR10	607.229	4539.107	31.39	369	1.41	6.62	601.89	0.1003	0.439

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PA	Butler	PENRECO/KARNS CITY	PENR11	607.229	4539.107	0.61	369	1.62	6.49	295.22	0.2996	1.312
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO1	573.014	4525.853	5.79	391	0.82	7.86	295.22	0.0001	0.001
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO2	573.014	4525.853	5.79	391	0.67	12.22	295.22	0.0002	0.001
PA	Butler	RESOLITE STABILIT AMER/ZELIENOPLE	RESO3	573.014	4525.853	0.61	391	0.64	8.38	295.22	0.0012	0.005
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA1	577.712	4518.285	6.10	299	1.83	2.48	1144.11	1.6723	7.325
PA	Butler	SENECA LANDFILL INC/SENECA	SENCA2	577.712	4518.285	0.61	299	1.16	6.80	295.22	1.6723	7.325
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV1	575.000	4506.212	9.75	331	0.91	18.30	316.33	0.0098	0.043
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV2	575.000	4506.212	14.32	331	0.37	5.27	428.00	0.2568	1.125
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV3	575.000	4506.212	14.02	331	1.37	10.73	293.00	0.2568	1.125
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV4	575.000	4506.212	0.61	331	1.04	14.20	295.22	0.0692	0.303
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV5	575.000	4506.212	14.32	331	0.37	27.85	428.00	0.0321	0.141
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV6	575.000	4506.212	0.61	331	0.91	10.30	295.22	0.0321	0.141
PA	Butler	THREE RIVERS ALUM CO/TRACO	THRRV7	575.000	4506.212	10.97	331	0.59	5.45	314.11	0.0028	0.012
PA	Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS PWR ST	ALLGAN	599.485	4400.378	19.81	347	3.48	18.88	616.33	0.1735	0.760
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL1	620.423	4427.412	30.48	287	1.52	8.28	699.67	11.1919	49.021
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL2	620.423	4427.412	22.86	287	0.91	17.97	498.00	17.6280	77.211
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL3	620.423	4427.412	21.03	287	1.47	10.02	323.00	1.0357	4.537
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL4	620.423	4427.412	18.29	287	0.64	8.72	295.22	0.2975	1.303
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL5	620.423	4427.412	17.68	287	1.04	8.42	497.44	0.0071	0.031
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL6	620.423	4427.412	11.28	287	0.61	9.70	588.56	0.0093	0.041
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL7	620.423	4427.412	10.67	287	0.61	10.50	588.56	0.0133	0.058
PA	Fayette	ANCHOR GLASS CONTAINER/PLT 5	ANCGL8	620.423	4427.412	9.14	287	0.91	1.44	588.56	0.0067	0.029
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILLE	CROWN1	621.438	4426.906	5.49	297	0.76	2.07	438.56	0.0091	0.040
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILLE	CROWN2	621.438	4426.906	3.66	297	0.55	3.00	438.56	0.0040	0.018
PA	Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILLE	CROWN3	621.438	4426.906	7.62	297	1.07	12.90	588.56	0.6690	2.930
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS1	613.309	4412.415	10.67	335	0.30	0.65	491.33	0.0018	0.008
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS2	613.309	4412.415	10.67	335	0.30	0.65	494.11	0.0020	0.009
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS3	613.309	4412.415	10.67	335	0.30	0.65	500.78	0.0015	0.006
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS4	613.309	4412.415	11.28	335	0.54	6.31	500.78	0.0053	0.023
PA	Fayette	DOMINION TRANS INC/NORTH SUMMIT	DOMNS5	613.309	4412.415	9.14	335	0.49	20.86	633.00	0.0651	0.285
PA	Fayette	ONYX CHESTNUT VALLEY LANDFILL INC/J & L	ONYX	602.494	4416.913	3.96	380	0.61	0.69	310.78	1.9677	8.619
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES1	613.494	4421.310	16.76	329	0.64	2.20	533.00	0.0006	0.003
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES2	613.494	4421.310	12.19	329	2.13	5.17	588.56	0.0445	0.195
PA	Fayette	TEXAS EASTERN TRANS /UNIONTOWN	TEXES3	613.494	4421.310	12.19	329	1.60	16.22	640.22	0.0667	0.292
PA	Greene	CARNEGIE INTERSTATE /WAYNESBRG COMPRES	CARINT	569.815	4416.045	8.23	289	0.44	17.46	669.11	0.0963	0.422
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR1	591.225	4410.410	17.68	246	1.04	8.42	497.44	0.0988	0.433
PA	Greene	CONSOL COAL CO/ROBENA PREP PLT	CONSR2	591.225	4410.410	0.61	246	1.07	11.52	295.22	2.3076	10.107
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB1	550.194	4424.915	31.70	392	2.32	9.74	393.00	14.0168	61.393
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB2	550.194	4424.915	7.62	392	2.26	12.44	295.22	14.0009	61.324
PA	Greene	CONSOL PA COAL CO/BAILEY PREP PLT	CONSB3	550.194	4424.915	0.61	392	1.07	11.52	295.22	3.5300	15.462

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PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR1	572.662	4417.004	12.19	300	1.60	16.22	640.22	0.1235	0.541
PA	Greene	DOMINION TRANS INC/CRAYNE STA	DOMCR2	572.662	4417.004	9.14	300	0.61	16.17	644.11	0.1482	0.649
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP1	573.038	4417.863	6.10	300	0.30	6.47	644.11	0.0049	0.022
PA	Greene	EQUITRANS INC/PRATT 47	EQTNP2	573.038	4417.863	8.23	300	0.44	17.46	669.11	0.0321	0.141
PA	Greene	KYOWA AMER CORP/WAYNESBURG PLT	KYOWA	569.790	4418.820	6.10	315	0.46	3.36	449.67	0.0239	0.105
PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL1	546.835	4415.714	8.23	306	0.44	17.46	669.11	1.2894	5.647
PA	Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	TEXHL2	546.835	4415.714	13.11	306	1.83	27.10	751.89	0.2396	1.049
PA	Greene	TEXAS EASTERN TRANS /WAYNESBURG STA	TEXWA1	574.778	4419.189	12.19	336	1.60	16.22	640.22	0.0420	0.184
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX1	556.898	4525.467	4.57	255	0.91	14.39	295.22	0.0043	0.019
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX2	556.898	4525.467	3.05	255	0.91	14.39	295.22	0.8684	3.804
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX3	556.898	4525.467	0.61	255	0.91	14.39	295.22	0.5073	2.222
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX4	556.898	4525.467	29.87	255	0.91	14.39	295.22	0.1290	0.565
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX5	556.898	4525.467	23.16	255	0.70	17.80	295.22	0.1903	0.833
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX6	556.898	4525.467	1.22	255	0.70	17.80	295.22	0.1903	0.833
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX7	556.898	4525.467	1.22	255	0.91	14.39	295.22	0.5418	2.373
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX8	556.898	4525.467	0.91	255	0.91	14.39	295.22	0.1289	0.565
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX9	556.898	4525.467	0.91	255	0.70	17.80	295.22	1.9303	8.455
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX10	556.898	4525.467	24.38	255	0.91	14.39	295.22	0.1827	0.800
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX11	556.898	4525.467	23.16	255	0.91	14.39	295.22	0.4581	2.007
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX12	556.898	4525.467	3.66	255	0.70	15.58	295.22	2.0066	8.789
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX13	556.898	4525.467	3.05	255	0.70	15.58	295.22	0.2835	1.242
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX14	556.898	4525.467	3.05	255	0.91	14.39	295.22	0.0002	0.001
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX15	556.898	4525.467	3.05	255	0.70	17.80	295.22	0.0524	0.229
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX16	556.898	4525.467	4.27	255	0.98	14.14	295.22	0.1139	0.499
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX17	556.898	4525.467	24.38	255	0.85	16.09	295.22	0.0698	0.306
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX18	556.898	4525.467	0.61	255	0.61	13.17	295.22	0.2028	0.888
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX19	556.898	4525.467	24.38	255	0.86	12.23	336.33	8.1638	35.757
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX20	556.898	4525.467	13.11	255	0.70	9.78	299.67	1.1384	4.986
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX21	556.898	4525.467	3.05	255	0.34	16.00	299.67	0.4228	1.852
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX22	556.898	4525.467	14.93	255	0.34	16.00	294.11	0.4228	1.852
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX23	556.898	4525.467	6.10	255	0.82	17.80	294.11	0.4228	1.852
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX24	556.898	4525.467	21.33	255	0.34	16.00	299.67	0.4228	1.852
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX25	556.898	4525.467	9.14	255	0.79	19.10	299.67	2.8049	12.286
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX26	556.898	4525.467	8.53	255	0.98	15.80	299.67	3.5615	15.599
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX27	556.898	4525.467	16.76	255	0.50	11.87	314.11	0.4768	2.089
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX28	556.898	4525.467	22.25	255	0.58	21.50	299.67	2.1451	9.396
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX29	556.898	4525.467	32.00	255	0.52	17.90	299.67	0.6844	2.998
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX30	556.898	4525.467	13.72	255	0.61	13.80	299.67	1.2702	5.564
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX31	556.898	4525.467	35.05	255	0.70	14.70	294.11	3.4151	14.958
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX32	556.898	4525.467	35.05	255	0.70	12.20	294.11	1.4311	6.268

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PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX33	556.898	4525.467	35.05	255	0.40	5.74	294.11	0.2114	0.926
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX34	556.898	4525.467	15.54	255	1.19	14.50	294.11	14.5387	63.680
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX35	556.898	4525.467	11.58	255	1.01	5.94	294.11	2.2767	9.972
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX36	556.898	4525.467	10.97	255	0.27	16.00	294.11	0.2927	1.282
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX37	556.898	4525.467	10.06	255	0.34	26.70	294.11	0.7155	3.134
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX38	556.898	4525.467	16.76	255	0.34	16.00	299.67	0.4228	1.852
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX39	556.898	4525.467	24.38	255	0.53	12.36	306.89	2.9492	12.917
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX40	556.898	4525.467	18.90	255	2.74	16.40	408.00	2.0857	9.135
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX41	556.898	4525.467	91.44	255	3.35	19.60	408.00	13.5517	59.356
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX42	556.898	4525.467	23.47	255	0.91	13.92	345.22	12.0343	52.710
PA	Lawrence	CEMEX INC/WAMPUM CEMENT PLT	CMEX43	556.898	4525.467	12.19	255	0.70	24.50	349.67	2.1792	9.545
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB1	541.971	4541.031	9.14	325	1.22	26.28	294.11	0.7048	3.087
PA	Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	DUNB2	541.971	4541.031	0.61	325	1.37	17.50	295.22	0.0783	0.343
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF1	559.518	4523.534	0.61	278	1.19	5.58	295.22	0.2426	1.063
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF2	559.518	4523.534	0.61	278	1.65	4.97	295.22	0.0221	0.097
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF3	559.518	4523.534	0.61	278	0.64	11.00	295.22	0.1324	0.580
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF4	559.518	4523.534	25.30	278	0.79	2.44	421.89	0.0867	0.380
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF5	559.518	4523.534	11.58	278	0.91	5.17	477.44	0.0867	0.380
PA	Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	ELWF6	559.518	4523.534	10.36	278	0.49	8.80	336.89	0.3757	1.645
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ1	554.699	4537.917	25.91	240	0.76	4.85	560.78	0.0321	0.141
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ2	554.699	4537.917	0.61	240	1.13	8.20	295.22	0.0191	0.084
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ3	554.699	4537.917	22.86	240	3.05	21.97	316.33	3.0305	13.274
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ4	554.699	4537.917	30.48	240	2.44	14.68	551.33	0.0754	0.330
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ5	554.699	4537.917	0.61	240	1.28	7.92	295.22	0.0040	0.018
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ6	554.699	4537.917	0.61	240	0.98	2.47	295.22	0.9353	4.097
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ7	554.699	4537.917	0.61	240	2.01	11.03	295.22	1.9306	8.456
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ8	554.699	4537.917	0.61	240	0.82	7.86	295.22	0.0074	0.033
PA	Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	ELWQ9	554.699	4537.917	17.68	240	1.07	10.92	400.78	0.5605	2.455
PA	Lawrence	ESSROC/BESSEMER	ESRC1	542.900	4536.052	0.61	340	2.29	12.07	295.22	0.2724	1.193
PA	Lawrence	ESSROC/BESSEMER	ESRC2	542.900	4536.052	0.61	340	1.04	16.00	295.22	0.0661	0.290
PA	Lawrence	ESSROC/BESSEMER	ESRC3	542.900	4536.052	9.14	340	1.01	15.70	295.22	0.0715	0.313
PA	Lawrence	ESSROC/BESSEMER	ESRC4	542.900	4536.052	0.61	340	1.10	13.35	295.22	0.1421	0.623
PA	Lawrence	ESSROC/BESSEMER	ESRC5	542.900	4536.052	62.48	340	3.35	10.86	449.67	15.0373	65.863
PA	Lawrence	ESSROC/BESSEMER	ESRC6	542.900	4536.052	60.96	340	4.63	7.14	477.44	21.0545	92.219
PA	Lawrence	ESSROC/BESSEMER	ESRC7	542.900	4536.052	21.33	340	2.13	20.05	344.11	10.0986	44.232
PA	Lawrence	ESSROC/BESSEMER	ESRC8	542.900	4536.052	21.94	340	0.61	9.90	294.11	0.3275	1.434
PA	Lawrence	ESSROC/BESSEMER	ESRC9	542.900	4536.052	0.61	340	0.98	14.69	295.22	0.2196	0.962
PA	Lawrence	ESSROC/BESSEMER	ESRC10	542.900	4536.052	0.61	340	1.01	16.15	295.22	0.1087	0.476
PA	Lawrence	ESSROC/BESSEMER	ESRC11	542.900	4536.052	0.61	340	0.98	14.69	295.22	4.4712	19.584
PA	Lawrence	ESSROC/BESSEMER	ESRC12	542.900	4536.052	26.52	340	0.91	19.05	338.56	0.0931	0.408

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PA	Lawrence	ESSROC/BESSEMER	ESRC13	542.900	4536.052	28.65	340	0.30	12.29	338.56	0.2761	1.209
PA	Lawrence	ESSROC/BESSEMER	ESRC14	542.900	4536.052	16.76	340	0.37	3.26	338.56	0.2680	1.174
PA	Lawrence	ESSROC/BESSEMER	ESRC15	542.900	4536.052	21.64	340	0.86	18.81	354.67	0.8058	3.530
PA	Lawrence	ESSROC/BESSEMER	ESRC16	542.900	4536.052	22.86	340	0.30	28.18	299.67	0.0861	0.377
PA	Lawrence	ESSROC/BESSEMER	ESRC17	542.900	4536.052	41.76	340	0.30	25.24	338.56	0.4376	1.917
PA	Lawrence	ESSROC/BESSEMER	ESRC18	542.900	4536.052	41.76	340	0.30	23.25	338.56	0.8968	3.928
PA	Lawrence	ESSROC/BESSEMER	ESRC19	542.900	4536.052	16.76	340	0.50	11.87	314.11	0.8968	3.928
PA	Lawrence	ESSROC/BESSEMER	ESRC20	542.900	4536.052	6.71	340	0.30	20.23	294.11	0.6530	2.860
PA	Lawrence	ESSROC/BESSEMER	ESRC21	542.900	4536.052	9.14	340	0.30	20.23	294.11	0.3265	1.430
PA	Lawrence	ESSROC/BESSEMER	ESRC22	542.900	4536.052	0.61	340	1.01	15.97	295.22	0.4966	2.175
PA	Lawrence	FLOWLINE DIV MARKOVI/NEW CASTLE	FLWLN	549.053	4540.775	0.61	309	0.30	6.38	491.33	0.0281	0.123
PA	Lawrence	GENERIC UNIT - NEW CASTLE	GEN1	553.177	4532.100	18.90	245	3.05	18.68	580.22	6.0251	26.390
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC1	560.995	4523.213	0.61	280	0.43	6.55	295.22	0.0346	0.152
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC2	560.995	4523.213	18.59	280	1.52	16.00	294.11	1.3428	5.881
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC3	560.995	4523.213	21.03	280	1.01	19.30	330.22	2.3447	10.270
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC4	560.995	4523.213	22.25	280	1.46	21.90	346.89	0.5195	2.276
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC5	560.995	4523.213	21.94	280	3.05	11.00	402.44	0.2676	1.172
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC6	560.995	4523.213	17.98	280	0.82	7.50	294.11	1.3428	5.881
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC7	560.995	4523.213	0.61	280	0.70	5.79	295.22	0.1049	0.459
PA	Lawrence	INMETCO/ELLWOOD CITY	INMTC8	560.995	4523.213	10.36	280	0.49	8.80	336.89	0.3508	1.537
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG1	554.446	4537.982	7.31	244	0.91	0.10	355.22	0.1510	0.661
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG2	554.446	4537.982	0.61	244	0.70	5.79	295.22	0.0849	0.372
PA	Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NAFRG3	554.446	4537.982	3.96	244	0.91	0.37	355.22	0.0524	0.230
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF1	567.699	4456.709	9.14	288	1.52	2.59	449.67	0.0247	0.108
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF2	567.699	4456.709	4.27	288	0.91	8.35	294.11	0.0823	0.361
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF3	567.699	4456.709	9.14	288	1.52	5.17	449.67	0.4067	1.782
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF4	567.699	4456.709	8.84	288	0.72	13.64	303.00	0.0163	0.071
PA	Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	ALLHF5	567.699	4456.709	0.61	288	4.33	9.05	295.22	0.7537	3.301
PA	Washington	ALLEGHENY LUDLUM COR/WASHINGTON FLATROLL	ALLWA	561.999	4448.612	0.61	313	0.61	16.98	295.22	0.0544	0.238
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	CLMGD1	548.183	4457.824	8.23	300	0.44	17.46	669.11	0.2964	1.298
PA	Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	CLMGD2	548.183	4457.824	11.28	300	0.56	6.28	494.11	0.0089	0.039
PA	Washington	DOMINION PEOPLES/GIBSON STA	DOMGIB	588.256	4444.277	7.62	322	0.27	3.99	633.00	0.0236	0.104
PA	Washington	DYNO NOBEL INC/DONORA	DYNO1	597.479	4449.142	15.24	234	0.91	9.76	435.78	0.3682	1.613
PA	Washington	DYNO NOBEL INC/DONORA	DYNO2	597.479	4449.142	15.54	234	0.47	6.99	345.78	0.9963	4.364
PA	Washington	DYNO NOBEL INC/DONORA	DYNO3	597.479	4449.142	32.61	234	1.16	23.27	469.67	0.1024	0.448
PA	Washington	DYNO NOBEL INC/DONORA	DYNO4	597.479	4449.142	44.19	234	1.98	27.55	302.44	8.5353	37.384
PA	Washington	DYNO NOBEL INC/DONORA	DYNO5	597.479	4449.142	9.14	234	0.64	14.90	305.22	0.4507	1.974
PA	Washington	DYNO NOBEL INC/DONORA	DYNO6	597.479	4449.142	13.72	234	1.01	10.69	546.89	0.1683	0.737
PA	Washington	DYNO NOBEL INC/DONORA	DYNO7	597.479	4449.142	0.61	234	0.55	10.82	295.22	0.4574	2.003
PA	Washington	DYNO NOBEL INC/DONORA	DYNO8	597.479	4449.142	0.61	234	0.85	1.34	295.22	2.5495	11.167

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
PA	Washington	DYNO NOBEL INC/DONORA	DYNO9	597.479	4449.142	7.62	234	0.85	1.34	295.22	0.0858	0.376
PA	Washington	DYNO NOBEL INC/DONORA	DYNO10	597.479	4449.142	0.61	234	0.85	15.91	295.22	0.1081	0.473
PA	Washington	EQUITRANS INC/HARTSON	EQTNH1	588.216	4456.399	10.67	316	0.46	21.60	477.44	0.0247	0.108
PA	Washington	EQUITRANS INC/HARTSON	EQTNH2	588.216	4456.399	4.88	316	0.46	0.86	533.00	0.0025	0.011
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN1	566.547	4463.825	0.61	310	1.25	12.01	295.22	0.0185	0.081
PA	Washington	FALCON PLASTICS/WASHINGTON	FALCN2	566.547	4463.825	12.19	310	0.21	2.30	449.67	0.0095	0.041
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS1	591.478	4448.378	12.50	232	0.59	6.38	491.33	0.1418	0.621
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS2	591.478	4448.378	16.46	232	0.09	17.39	293.00	0.3131	1.372
PA	Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	FLEXS3	591.478	4448.378	34.14	232	0.91	3.35	923.00	0.0494	0.216
PA	Washington	GENERIC UNIT - WASHNGTN	GEN2	548.238	4479.681	18.90	300	3.05	18.68	580.22	0.1096	0.480
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP1	561.781	4447.222	6.10	318	0.30	14.57	494.11	0.0247	0.108
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP2	561.781	4447.222	3.66	318	0.61	0.05	294.11	0.1091	0.478
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP3	561.781	4447.222	15.24	318	1.52	1.06	588.56	0.7502	3.286
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP4	561.781	4447.222	1.52	318	1.22	10.39	295.22	1.3659	5.983
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP5	561.781	4447.222	3.66	318	0.91	12.90	294.11	0.0232	0.101
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP6	561.781	4447.222	0.61	318	1.28	7.92	295.22	0.0116	0.051
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP7	561.781	4447.222	0.61	318	1.04	14.20	295.22	0.0124	0.054
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP8	561.781	4447.222	17.37	318	0.86	7.80	551.33	0.0347	0.152
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP9	561.781	4447.222	10.67	318	0.76	8.28	588.56	0.0718	0.314
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP10	561.781	4447.222	0.61	318	1.19	6.95	295.22	0.4225	1.850
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP11	561.781	4447.222	11.28	318	0.56	6.28	494.11	0.0741	0.325
PA	Washington	JESSOP STEEL CO/WASHINGTON	JESP12	561.781	4447.222	0.61	318	1.19	5.58	295.22	0.2163	0.948
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL1	550.858	4468.276	153.31	369	2.44	3.60	323.56	0.8529	3.736
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL2	550.858	4468.276	17.07	369	0.80	10.88	300.22	0.1826	0.800
PA	Washington	LANGELOTH METALLURGICAL/LANGELOTH	LANGL3	550.858	4468.276	12.19	369	0.61	4.24	366.33	0.2870	1.257
PA	Washington	PA DPW/WESTERN STATE SCH & HOSP	DPWWS	570.698	4458.801	18.29	315	0.91	9.00	588.56	0.0071	0.031
PA	Washington	PA TRANSFORMER TECH /CANONSBURG	TRNTCH	570.545	4457.956	11.89	295	0.52	9.78	491.33	0.0356	0.156
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR1	589.996	4451.213	10.06	227	0.56	12.70	396.33	1.0062	4.407
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR2	589.996	4451.213	15.85	227	0.92	10.10	380.22	0.0035	0.015
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR3	589.996	4451.213	13.72	227	0.69	15.07	317.44	0.0505	0.221
PA	Washington	THERM O ROCK INC/NEW EAGLE PLT	THRMR4	589.996	4451.213	0.61	227	0.94	15.73	295.22	0.0328	0.144
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC1	550.382	4472.213	25.91	320	3.74	9.10	350.22	0.4399	1.927
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC2	550.382	4472.213	24.08	320	1.34	6.64	471.33	0.0865	0.379
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC3	550.382	4472.213	17.68	320	1.07	10.92	400.78	1.1784	5.161
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC4	550.382	4472.213	12.19	320	1.28	7.92	295.22	0.1181	0.517
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC5	550.382	4472.213	12.19	320	1.04	14.20	295.22	0.1260	0.552
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC6	550.382	4472.213	0.61	320	1.86	9.60	295.22	0.1563	0.685
PA	Washington	UNION ELEC STEEL CORP/HARMON CREEK	UNELC7	550.382	4472.213	0.61	320	1.04	14.20	295.22	0.1667	0.730
PA	Washington	USA WASTE SVC INC/USA SOUTH HILLS LDFL I	USAWSH	586.001	4458.216	0.61	307	1.10	11.19	295.22	0.2205	0.966
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA1	598.695	4438.189	11.28	233	0.82	16.41	421.89	0.0593	0.260

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PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA2	598.695	4438.189	0.61	233	0.43	6.55	295.22	0.0074	0.033
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA3	598.695	4438.189	6.10	233	0.30	7.80	977.44	0.1148	0.503
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA4	598.695	4438.189	17.37	233	0.86	7.80	551.33	0.0168	0.073
PA	Washington	WHEELING PGH STEEL/ALLENPORT	WHPGA5	598.695	4438.189	0.61	233	1.07	3.14	295.22	2.0660	9.049
PA	Washington	WILLIAM H MARTIN INC/ARDEN LDFL	WILMAR	562.566	4451.147	15.24	300	3.44	0.26	1088.56	1.3771	6.032
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH1	594.082	4443.703	30.48	234	0.61	25.87	627.44	1.5008	6.574
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH2	594.082	4443.703	24.38	234	0.86	12.21	448.00	2.9133	12.760
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH3	594.082	4443.703	0.61	234	0.82	7.86	295.22	0.2223	0.974
PA	Washington	WORLD KITCHEN INC/CHARLEROI	WKTCH4	594.082	4443.703	0.61	234	1.10	15.88	295.22	0.8394	3.677
PA	Westmoreland	ALCOA INC/UPPER BURREL	ALCOA	613.893	4490.207	10.67	392	0.30	0.65	497.44	0.0980	0.429
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV1	620.711	4495.922	16.76	247	0.61	2.44	435.78	0.0260	0.114
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV2	620.711	4495.922	21.33	247	1.52	17.46	321.89	2.8889	12.653
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV3	620.711	4495.922	0.61	247	1.19	5.58	295.22	0.0629	0.276
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV4	620.711	4495.922	21.33	247	0.79	11.09	316.33	2.6207	11.479
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV5	620.711	4495.922	3.05	247	2.01	11.03	295.22	0.2683	1.175
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV6	620.711	4495.922	15.24	247	1.83	0.05	810.78	0.0494	0.216
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV7	620.711	4495.922	12.50	247	0.76	20.70	344.11	0.5674	2.485
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV8	620.711	4495.922	21.33	247	1.22	4.04	321.89	0.1238	0.542
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV9	620.711	4495.922	0.61	247	0.82	7.86	295.22	0.2511	1.100
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV10	620.711	4495.922	4.88	247	1.01	15.12	810.78	0.0645	0.282
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV11	620.711	4495.922	18.29	247	0.61	5.82	321.89	0.0885	0.388
PA	Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	ALLV12	620.711	4495.922	18.29	247	0.46	6.89	316.33	0.0442	0.194
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW1	617.435	4499.733	23.16	242	2.29	3.45	421.89	0.0008	0.004
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW2	617.435	4499.733	13.11	242	1.07	15.84	421.89	0.0371	0.163
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW3	617.435	4499.733	16.76	242	0.61	0.49	494.11	0.0078	0.034
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW4	617.435	4499.733	15.24	242	1.22	1.52	294.11	3.4585	15.148
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW5	617.435	4499.733	17.68	242	1.04	8.42	497.44	0.0489	0.214
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW6	617.435	4499.733	15.24	242	1.07	6.40	810.78	0.2228	0.976
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW7	617.435	4499.733	0.61	242	1.19	5.58	295.22	0.0484	0.212
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW8	617.435	4499.733	15.24	242	0.46	28.65	321.89	0.4204	1.841
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW9	617.435	4499.733	25.91	242	1.07	15.85	303.56	0.0731	0.320
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW10	617.435	4499.733	6.10	242	0.82	7.86	295.22	0.0177	0.078
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW11	617.435	4499.733	0.61	242	1.13	8.20	295.22	0.0247	0.108
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW12	617.435	4499.733	9.14	242	0.30	17.91	294.11	0.5455	2.389
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW13	617.435	4499.733	18.29	242	0.40	13.78	338.56	0.0221	0.097
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW14	617.435	4499.733	16.76	242	1.04	10.67	310.22	0.0221	0.097
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW15	617.435	4499.733	7.62	242	0.91	5.39	321.89	0.5455	2.389
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW16	617.435	4499.733	15.24	242	0.46	21.64	321.89	0.0221	0.097
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW17	617.435	4499.733	3.05	242	0.82	7.86	295.22	0.0038	0.017
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW18	617.435	4499.733	15.24	242	0.61	24.38	810.78	0.0494	0.216

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PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW19	617.435	4499.733	7.92	242	0.30	12.80	321.89	0.8292	3.632
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW20	617.435	4499.733	15.24	242	0.61	12.13	321.89	0.0221	0.097
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW21	617.435	4499.733	0.61	242	0.82	7.86	295.22	0.0082	0.036
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW22	617.435	4499.733	15.24	242	0.61	24.26	810.78	0.0493	0.216
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW23	617.435	4499.733	18.29	242	0.91	7.32	810.78	0.0147	0.064
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW24	617.435	4499.733	18.29	242	0.91	7.19	810.78	0.0147	0.064
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW25	617.435	4499.733	17.68	242	1.07	10.92	400.78	0.7670	3.359
PA	Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	ALLW26	617.435	4499.733	0.61	242	1.22	10.39	295.22	0.2683	1.175
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA1	638.194	4465.255	7.62	311	1.77	21.60	310.22	0.3584	1.570
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA2	638.194	4465.255	17.68	311	1.07	10.92	400.78	0.1964	0.860
PA	Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	ALLVA3	638.194	4465.255	0.61	311	1.34	10.52	295.22	0.1594	0.698
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG1	621.198	4449.907	53.34	370	1.22	24.08	574.67	0.6447	2.824
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG2	621.198	4449.907	17.68	370	1.04	8.42	497.44	0.1758	0.770
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG3	621.198	4449.907	23.16	370	0.61	0.69	477.44	0.0175	0.077
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG4	621.198	4449.907	23.16	370	0.61	0.83	477.44	0.0108	0.048
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG5	621.198	4449.907	23.16	370	0.30	10.35	485.78	0.0062	0.027
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG6	621.198	4449.907	11.28	370	0.54	6.31	500.78	0.0413	0.181
PA	Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	AVIDG7	621.198	4449.907	20.73	370	1.15	7.50	485.78	0.0127	0.056
PA	Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	CHSRDG	639.449	4465.423	22.86	313	0.67	1.34	394.11	0.0065	0.028
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP1	624.894	4443.205	12.50	323	0.59	6.38	491.33	0.0045	0.020
PA	Westmoreland	CK COMPOSITES INC/MT PLEASANT	CKCMP2	624.894	4443.205	7.92	323	0.37	21.26	293.00	0.0020	0.009
PA	Westmoreland	COLUMBIA GAS TRANS C/DELMONT COMPRES	CLMDEL	621.901	4471.713	8.23	312	0.44	17.46	669.11	0.0033	0.014
PA	Westmoreland	DOMINION PEOPLES/LATROBE STATION	DOMLA	632.811	4463.038	8.23	326	0.44	17.46	669.11	0.0271	0.119
PA	Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	DOMLH	617.340	4462.014	9.14	398	0.49	20.86	633.00	0.0330	0.144
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK1	622.279	4473.474	9.75	347	0.61	9.66	505.22	0.0201	0.088
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK2	622.279	4473.474	8.84	347	0.61	16.80	588.56	0.6545	2.867
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK3	622.279	4473.474	4.57	347	0.49	20.40	421.89	0.0075	0.033
PA	Westmoreland	DOMINION TRANS INC/OAKFORD STA	DOMOK4	622.279	4473.474	9.14	347	0.24	10.10	449.67	0.0005	0.002
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO1	623.247	4471.435	6.40	381	0.30	0.72	449.67	0.0007	0.003
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO2	623.247	4471.435	14.93	381	1.52	13.80	671.89	0.2890	1.266
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO3	623.247	4471.435	10.97	381	0.62	20.58	639.67	0.0010	0.004
PA	Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	DOMSO4	623.247	4471.435	14.02	381	0.61	0.72	449.67	0.0018	0.008
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN1	615.601	4479.974	11.28	319	0.56	6.28	494.11	0.0004	0.002
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN2	615.601	4479.974	9.14	319	0.49	20.86	633.00	0.0002	0.001
PA	Westmoreland	DOMINION TRANS INC/TONKIN STA	DOMTN3	615.601	4479.974	8.23	319	0.44	17.46	669.11	0.1650	0.723
PA	Westmoreland	DURA BOND IND INC/EXPORT STEEL PLT	DRBND	616.426	4475.990	9.14	301	0.30	0.65	294.11	5.9301	25.974
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY1	620.501	4439.714	0.61	319	1.13	13.26	295.22	0.0303	0.133
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY2	620.501	4439.714	0.61	319	1.13	17.13	295.22	0.1708	0.748
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY3	620.501	4439.714	9.45	319	0.61	11.68	304.11	0.0408	0.179
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY4	620.501	4439.714	0.61	319	2.07	9.85	295.22	0.1134	0.497

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PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY5	620.501	4439.714	0.61	319	1.13	12.19	295.22	1.0579	4.634
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY6	620.501	4439.714	0.61	319	0.79	13.08	295.22	0.0768	0.336
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY7	620.501	4439.714	7.92	319	0.69	14.18	302.44	0.1192	0.522
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY8	620.501	4439.714	0.61	319	0.70	9.54	295.22	0.5289	2.317
PA	Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	DURLY9	620.501	4439.714	12.50	319	0.59	6.38	491.33	0.0226	0.099
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ1	618.000	4466.011	20.73	312	0.91	12.60	1088.56	0.0009	0.004
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ2	618.000	4466.011	13.11	312	1.52	10.19	1088.56	0.0003	0.002
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ3	618.000	4466.011	10.67	312	0.43	6.55	295.22	0.0073	0.032
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ4	618.000	4466.011	10.67	312	0.30	0.65	497.44	0.0029	0.013
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ5	618.000	4466.011	20.73	312	0.91	22.00	1088.56	0.1321	0.579
PA	Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	ELLJ6	618.000	4466.011	10.67	313	0.67	7.80	295.22	0.3356	1.470
PA	Westmoreland	EQUITRANS INC/SLEEPY HOLLOW COMPRES S	EQTNSL	623.743	4469.112	8.23	385	0.44	17.46	669.11	0.0015	0.006
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC1	620.497	4442.612	0.61	335	0.73	5.88	295.22	0.0110	0.048
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC2	620.497	4442.612	15.24	335	3.23	9.25	1088.56	0.1076	0.471
PA	Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	GRNRC3	620.497	4442.612	0.61	335	1.16	6.80	295.22	8.5830	37.594
PA	Westmoreland	HUNTINGTON FOAM PITT/MT PLEASANT	HUNTFM	618.999	4445.209	20.73	377	1.15	7.50	485.78	0.0092	0.040
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM1	593.794	4446.286	38.40	235	1.74	7.29	435.78	0.4552	1.994
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM2	593.794	4446.286	10.67	235	2.35	6.58	295.22	0.0204	0.089
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM3	593.794	4446.286	30.48	235	1.52	0.65	388.56	0.5851	2.563
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM4	593.794	4446.286	7.62	235	2.10	6.77	295.22	0.5851	2.563
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM5	593.794	4446.286	18.29	235	4.57	2.68	366.33	1.8081	7.920
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM6	593.794	4446.286	79.55	235	2.44	7.96	588.56	1.9674	8.617
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM7	593.794	4446.286	7.62	235	2.65	4.88	295.22	1.2449	5.453
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM8	593.794	4446.286	9.14	235	1.58	4.42	295.22	0.0327	0.143
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM9	593.794	4446.286	7.62	235	1.58	4.42	295.22	0.7416	3.248
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM10	593.794	4446.286	121.91	235	0.61	4.04	449.67	0.6662	2.918
PA	Westmoreland	KOPPERS IND/MONESSEN COKE PLT	KOPM11	593.794	4446.286	0.61	235	1.46	7.92	295.22	0.8201	3.592
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP1	636.598	4464.715	33.53	308	1.10	3.23	533.00	0.0279	0.122
PA	Westmoreland	LATROBE AREA HOSP/LATROBE	LAHSP2	636.598	4464.715	11.89	308	0.89	22.23	598.00	0.0031	0.013
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW1	636.897	4464.610	17.68	297	1.04	8.42	497.44	0.0612	0.268
PA	Westmoreland	LATROBE BREWING CO/LATROBE	LABRW2	636.897	4464.610	10.67	297	0.76	8.05	348.56	0.0445	0.195
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM1	629.653	4487.833	10.67	258	0.30	0.65	699.67	0.1793	0.785
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM2	629.653	4487.833	12.19	258	1.22	0.04	294.11	0.1357	0.594
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM3	629.653	4487.833	9.14	258	1.98	14.78	295.22	0.0457	0.200
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM4	629.653	4487.833	10.67	258	0.30	0.65	338.00	5.7117	25.017
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM5	629.653	4487.833	0.61	258	1.25	18.14	295.22	4.7329	20.730
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM6	629.653	4487.833	10.67	258	0.30	0.65	494.11	0.0005	0.002
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM7	629.653	4487.833	10.67	258	0.30	0.65	304.11	0.0141	0.062
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM8	629.653	4487.833	10.67	258	0.30	0.65	294.11	0.0947	0.415
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM9	629.653	4487.833	15.85	258	1.01	14.90	303.00	0.0585	0.256

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PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM10	629.653	4487.833	0.61	258	1.13	13.47	295.22	0.0006	0.003
PA	Westmoreland	NATL ROLL CO/AVONMORE	NRAM11	629.653	4487.833	0.61	258	0.43	6.55	295.22	0.1008	0.441
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA1	617.368	4464.580	13.72	299	0.61	0.81	497.44	0.0014	0.006
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA2	617.368	4464.580	17.68	299	1.04	8.42	497.44	0.0195	0.085
PA	Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	OMNA3	617.368	4464.580	10.97	299	0.91	5.87	313.00	0.4842	2.121
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR1	647.783	4473.367	19.81	343	1.52	15.04	449.67	0.0455	0.200
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR2	647.783	4473.367	76.20	343	3.66	4.97	421.89	0.3801	1.665
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR3	647.783	4473.367	8.23	343	0.44	8.71	498.56	0.0005	0.002
PA	Westmoreland	PA DPW/TORRANCE STATE HOSP	DPWTR4	647.783	4473.367	8.53	343	0.38	22.38	603.56	0.0025	0.011
PA	Westmoreland	POLY HI SOLIDUR INC/DELMONT PLT	POLYHI	621.009	4475.918	17.68	363	1.04	8.42	497.44	0.0305	0.134
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR1	613.805	4446.672	7.62	292	0.91	3.84	295.22	0.1097	0.480
PA	Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	RANBR2	613.805	4446.672	10.67	292	0.91	8.62	500.78	0.0147	0.065
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY1	621.146	4449.462	12.19	356	0.61	12.93	608.00	0.0321	0.141
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY2	621.146	4449.462	13.11	356	0.76	11.64	491.33	0.2025	0.887
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY3	621.146	4449.462	12.50	356	0.76	6.74	477.44	0.0593	0.260
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY4	621.146	4449.462	10.67	356	0.15	3.39	491.33	0.0037	0.016
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY5	621.146	4449.462	10.67	356	0.15	2.59	491.33	0.0032	0.014
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY6	621.146	4449.462	21.33	356	0.70	9.17	310.78	0.2951	1.293
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY7	621.146	4449.462	10.67	356	0.30	4.53	294.11	0.2626	1.150
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY8	621.146	4449.462	10.67	356	0.15	3.91	294.11	0.0079	0.035
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY9	621.146	4449.462	10.67	356	0.30	6.47	294.11	0.0039	0.017
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY10	621.146	4449.462	9.14	356	0.30	12.94	366.33	0.0108	0.047
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY11	621.146	4449.462	9.45	356	0.30	6.47	500.78	0.0089	0.039
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY12	621.146	4449.462	11.28	356	0.54	6.31	500.78	0.0065	0.029
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY13	621.146	4449.462	12.19	356	1.22	1.25	399.67	0.0449	0.197
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY14	621.146	4449.462	13.11	356	0.61	5.14	399.67	0.0213	0.093
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY15	621.146	4449.462	12.80	356	0.43	5.83	491.33	0.0230	0.101
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY16	621.146	4449.462	12.19	356	0.55	17.70	477.44	0.0371	0.162
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY17	621.146	4449.462	15.24	356	0.30	29.11	294.11	0.0038	0.017
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY18	621.146	4449.462	18.29	356	0.46	28.75	305.22	0.0076	0.033
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY19	621.146	4449.462	9.45	356	0.50	7.79	324.67	0.0004	0.002
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY20	621.146	4449.462	10.67	356	0.76	7.24	491.33	0.0003	0.001
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY21	621.146	4449.462	15.24	356	1.07	14.26	294.11	0.0943	0.413
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY22	621.146	4449.462	13.72	356	0.46	6.90	299.67	0.0038	0.017
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY23	621.146	4449.462	1.52	356	0.82	7.86	295.22	0.0025	0.011
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY24	621.146	4449.462	10.67	356	0.15	20.70	421.89	0.0009	0.004
PA	Westmoreland	SONY ELECTRONICS INC/NEW STANTON	SONY25	621.146	4449.462	12.19	356	0.55	13.58	465.22	0.0014	0.006
PA	Westmoreland	ST GEORGE CRYSTAL LTD/JEANNETTE	STGCRS	618.600	4465.110	15.24	309	0.61	11.32	477.44	0.2545	1.115
PA	Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	STVNCT	636.295	4461.712	17.68	344	1.04	8.42	497.44	0.2021	0.885
PA	Westmoreland	STD STEEL/LATROBE	STDSL1	637.612	4463.157	60.96	311	3.05	0.85	435.78	0.1284	0.563

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PA	Westmoreland	STD STEEL/LATROBE	STDSL2	637.612	4463.157	25.91	311	3.74	9.10	350.22	1.1488	5.032
PA	Westmoreland	STD STEEL/LATROBE	STDSL3	637.612	4463.157	12.19	311	0.98	2.47	295.22	0.1080	0.473
PA	Westmoreland	STD STEEL/LATROBE	STDSL4	637.612	4463.157	4.57	311	0.91	20.48	338.56	0.0046	0.020
PA	Westmoreland	STD STEEL/LATROBE	STDSL5	637.612	4463.157	8.84	311	0.72	13.64	303.00	0.0003	0.001
PA	Westmoreland	STD STEEL/LATROBE	STDSL6	637.612	4463.157	0.61	311	0.82	7.86	295.22	0.0840	0.368
PA	Westmoreland	STD STEEL/LATROBE	STDSL7	637.612	4463.157	10.36	311	0.48	4.92	369.11	0.0197	0.087
PA	Westmoreland	STD STEEL/LATROBE	STDSL8	637.612	4463.157	11.28	311	0.56	6.28	494.11	0.0982	0.430
PA	Westmoreland	SUMMERILL TUBE CORP/SCOTTDALE PLT	SUMMRL	620.674	4440.616	17.68	313	1.04	8.42	497.44	0.0034	0.015
PA	Westmoreland	SUNOCO PARTNERS M&T/DELMONT FACILITY	SUNDEL	620.935	4476.317	7.62	391	1.00	3.33	418.56	0.0091	0.040
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL1	621.041	4476.514	17.07	388	0.37	23.88	788.56	0.2527	1.107
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL2	621.041	4476.514	8.23	388	0.44	17.46	669.11	0.2760	1.209
PA	Westmoreland	TEXAS EASTERN TRANS /DELMONT	TEXDL3	621.041	4476.514	12.19	388	1.60	16.22	640.22	0.2841	1.244
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN1	638.479	4462.729	12.19	313	1.52	2.59	497.44	0.0694	0.304
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN2	638.479	4462.729	11.28	313	0.56	6.28	494.11	0.0395	0.173
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN3	638.479	4462.729	22.86	313	3.05	29.11	366.33	0.6630	2.904
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN4	638.479	4462.729	15.24	313	1.95	24.16	310.78	0.6044	2.647
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN5	638.479	4462.729	0.61	313	0.98	2.47	295.22	0.1266	0.555
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN6	638.479	4462.729	17.68	313	1.07	10.92	400.78	0.0042	0.018
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN7	638.479	4462.729	14.02	313	0.46	2.87	294.11	0.0175	0.077
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN8	638.479	4462.729	3.35	313	0.61	12.94	294.11	0.0463	0.203
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN9	638.479	4462.729	10.36	313	0.61	10.50	294.11	0.2160	0.946
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN10	638.479	4462.729	9.14	313	1.52	0.97	310.78	0.0078	0.034
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN11	638.479	4462.729	14.02	313	0.61	16.20	294.11	0.0087	0.038
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN12	638.479	4462.729	3.05	313	1.77	8.02	295.22	0.0444	0.194
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN13	638.479	4462.729	0.61	313	1.77	8.02	295.22	0.0495	0.217
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN14	638.479	4462.729	9.75	313	0.76	12.42	294.11	0.0003	0.001
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN15	638.479	4462.729	3.66	313	0.30	1.29	477.44	0.1460	0.640
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN16	638.479	4462.729	0.61	313	0.91	10.30	295.22	0.5557	2.434
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN17	638.479	4462.729	3.66	313	0.30	2.59	477.44	0.2312	1.013
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN18	638.479	4462.729	15.54	313	0.88	9.94	453.56	0.1910	0.836
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN19	638.479	4462.729	18.29	313	1.01	0.12	477.44	0.1247	0.546
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN20	638.479	4462.729	9.14	313	0.37	18.87	294.11	0.1128	0.494
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN21	638.479	4462.729	0.61	313	2.01	11.03	295.22	0.1259	0.551
PA	Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	TMKN22	638.479	4462.729	0.61	313	2.38	6.00	295.22	0.0334	0.146
PA	Westmoreland	USA VALLEY FAC INC/VALLEY LDFL	USAVAL	612.520	4471.689	0.61	360	0.55	16.28	295.22	0.5784	2.533
PA	Westmoreland	WESTMORELAND WASTE LLC/SANITARY LDFL	WESWST	597.397	4444.311	4.57	286	0.91	0.86	366.33	0.1285	0.563
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA1	636.798	4462.609	10.36	309	0.58	4.45	511.33	0.0067	0.030
PA	Westmoreland	ZEUS ALUM PROD/LATROBE PLT	ZEUSA2	636.798	4462.609	13.72	309	0.77	9.73	358.56	1.1853	5.192
Ohio Sources (w/o EGUs)												
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART1	524.378	4438.785	16.15	210	1.22	40.42	477.44	0.0068	0.030

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OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART2	524.377	4438.896	6.40	210	0.46	8.62	477.44	0.0137	0.060
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART3	524.122	4438.895	38.71	210	1.43	7.19	430.78	0.0073	0.032
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART4	524.122	4438.895	36.88	210	1.19	5.58	401.89	0.0051	0.022
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART5	524.377	4438.896	21.33	210	0.91	14.37	327.44	0.2136	0.935
OH	Belmont	WHEELING-PITTSBURGH STEEL CORP - MARTIN'S	MART6	524.377	4438.896	24.38	210	0.91	14.37	327.44	0.3575	1.566
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE1	533.645	4463.129	42.67	209	3.05	6.06	449.67	1.7997	7.883
OH	Jefferson	MINGO JUNCTION ENERGY CENTER, LLC	MJE2	533.645	4463.129	42.67	209	3.05	6.06	544.11	1.8383	8.052
OH	Jefferson	TITANIUM METALS CORPORATION	TITN1	532.989	4477.112	10.36	216	0.56	4.79	463.56	0.0183	0.080
OH	Jefferson	TITANIUM METALS CORPORATION	TITN2	533.242	4477.335	18.29	216	1.42	9.77	299.67	0.4744	2.078
OH	Jefferson	TITANIUM METALS CORPORATION	TITN3	533.159	4477.112	8.84	216	1.24	19.52	296.89	0.8620	3.776
OH	Jefferson	TITANIUM METALS CORPORATION	TITN4	533.158	4477.334	27.43	216	1.38	1.05	1088.56	0.0023	0.010
OH	Jefferson	TITANIUM METALS CORPORATION	TITN5	532.989	4477.001	22.25	216	0.49	6.70	310.78	1.1339	4.967
OH	Jefferson	TITANIUM METALS CORPORATION	TITN6	532.988	4477.334	16.46	216	1.22	16.17	296.89	0.2198	0.963
OH	Jefferson	TITANIUM METALS CORPORATION	TITN7	533.074	4477.001	11.58	216	1.22	18.19	310.78	3.8299	16.775
OH	Jefferson	TITANIUM METALS CORPORATION	TITN8	533.242	4477.446	16.15	216	0.91	10.30	294.11	0.0160	0.070
OH	Jefferson	TITANIUM METALS CORPORATION	TITN9	533.158	4477.334	22.86	216	1.38	1.05	1088.56	0.0023	0.010
OH	Jefferson	TITANIUM METALS CORPORATION	TITN10	532.989	4477.112	19.81	216	1.01	11.66	310.78	2.1959	9.618
OH	Jefferson	TITANIUM METALS CORPORATION	TITN11	533.158	4477.223	22.86	216	1.38	2.09	1088.56	0.0046	0.020
OH	Jefferson	TITANIUM METALS CORPORATION	TITN12	533.157	4477.445	5.18	216	0.84	14.79	303.00	0.0665	0.291
OH	Jefferson	TITANIUM METALS CORPORATION	TITN13	533.158	4477.334	5.18	216	0.84	24.66	300.22	0.1475	0.646
OH	Jefferson	TITANIUM METALS CORPORATION	TITN14	533.242	4477.446	9.14	216	0.84	21.23	302.44	0.3732	1.634
OH	Jefferson	TITANIUM METALS CORPORATION	TITN15	533.158	4477.223	19.81	216	1.37	8.59	1588.56	0.0548	0.240
OH	Jefferson	TITANIUM METALS CORPORATION	TITN16	533.242	4477.446	19.81	216	1.13	8.20	294.11	0.0183	0.080
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING1	533.732	4462.685	20.12	209	1.29	18.78	283.00	0.4518	1.979
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING2	533.986	4463.019	29.26	209	2.01	11.03	283.00	0.2003	0.877
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING3	533.647	4462.685	9.14	209	2.75	18.44	410.78	2.1029	9.211
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING4	533.986	4463.019	30.78	209	2.96	10.61	412.44	1.1784	5.161
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING5	533.986	4463.019	36.88	209	1.19	5.58	401.89	0.7321	3.207
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING6	533.986	4463.019	49.38	209	3.93	3.99	283.00	1.4718	6.446
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING7	533.393	4462.461	56.99	209	3.96	2.18	783.00	1.9787	8.667
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING8	533.986	4463.019	19.81	209	1.13	8.20	294.11	0.0822	0.360
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING9	533.645	4463.129	71.32	209	3.05	8.55	574.67	10.5098	46.033
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING10	533.732	4462.796	19.20	209	1.75	17.54	377.44	3.0810	13.495
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING11	533.563	4462.573	19.20	209	1.52	10.35	310.78	0.3819	1.673
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING12	533.563	4462.573	53.95	209	3.96	9.94	324.67	33.5063	146.758
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING13	533.732	4462.685	53.64	209	1.52	24.58	1088.56	0.1481	0.649
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING14	533.986	4463.019	41.76	209	2.04	9.97	283.00	0.0939	0.411
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - MINGO	MING15	533.986	4463.019	17.37	209	4.54	10.55	283.00	0.1054	0.462
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB1	532.697	4466.232	77.42	203	3.43	1.74	588.56	1.4501	6.351
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB2	532.697	4466.232	35.66	203	2.44	7.39	505.22	6.5879	28.855

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB3	532.612	4466.232	10.67	203	1.52	10.10	588.56	0.0457	0.200
OH	Jefferson	WHEELING-PITTSBURGH STEEL CORP - STEUB	STEUB4	532.697	4466.232	55.78	203	1.83	19.42	574.67	6.0639	26.560
West Virginia Sources (w/o EGUs)												
WV	Brooke	BALL METAL FOOD CONTAINER CORP.	BALMFC	531.912	4471.113	12.19	224	1.31	6.16	653.00	0.3546	1.553
WV	Brooke	BROOKE COUNTY LANDFILL	BROOK	535.821	4470.132	3.05	333	0.00	0.00	295.22	2.3318	10.213
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN1	532.168	4470.781	8.23	222	0.76	6.10	449.67	0.0076	0.033
WV	Brooke	CROWN CORK & SEAL COMPANY (USA) INC.	CROWN2	532.168	4470.781	16.76	222	1.37	8.99	588.56	0.2237	0.980
WV	Brooke	IMPRESS USA, INC	IMPRS1	531.824	4471.779	10.97	223	0.46	7.09	449.67	0.1020	0.447
WV	Brooke	IMPRESS USA, INC	IMPRS2	531.824	4471.779	7.31	223	0.20	9.94	255.22	0.0153	0.067
WV	Brooke	IMPRESS USA, INC	IMPRS3	531.824	4471.779	10.97	223	0.49	6.06	449.67	0.0403	0.177
WV	Brooke	IMPRESS USA, INC	IMPRS4	531.824	4471.779	12.50	223	0.51	5.57	449.67	0.0510	0.223
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF1	533.459	4466.680	0.30	218	0.30	6.38	294.11	0.0069	0.030
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF2	533.459	4466.680	9.14	218	0.91	21.33	294.11	0.0167	0.073
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF3	533.459	4466.680	14.93	218	4.72	0.14	755.22	0.0299	0.131
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF4	533.459	4466.680	18.29	218	0.46	0.09	1366.33	0.0091	0.040
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF5	533.459	4466.680	30.48	218	3.05	0.03	560.78	0.6621	2.900
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF6	533.459	4466.680	23.47	218	0.79	7.16	605.22	0.0299	0.131
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF7	533.459	4466.680	30.48	218	3.05	0.03	533.00	0.2740	1.200
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF8	533.459	4466.680	24.38	218	3.05	0.03	533.00	0.3373	1.477
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF9	533.459	4466.680	24.99	218	1.37	22.07	449.67	1.1963	5.240
WV	Brooke	KOPPERS FOLLANSBEE TAR PLANT	KOPF10	533.459	4466.680	3.05	218	0.00	0.00	295.22	0.0586	0.257
WV	Brooke	NESTLE PURINA PETCARE COMPANY	NESTL	532.167	4471.114	12.19	223	0.61	8.53	728.56	0.2123	0.930
WV	Brooke	ROLL COATER, INC.	ROLL1	534.035	4470.900	17.68	210	2.58	9.75	1088.56	0.4049	1.773
WV	Brooke	ROLL COATER, INC.	ROLL2	534.035	4470.900	17.68	210	0.46	16.67	294.11	0.2991	1.310
WV	Brooke	ROLL COATER, INC.	ROLL3	534.035	4470.900	3.05	210	0.00	0.00	295.22	8.1644	35.760
WV	Brooke	UNITED STATES CAN COMPANY	USCAN1	532.082	4471.003	10.67	223	0.91	3.96	421.89	0.2465	1.080
WV	Brooke	UNITED STATES CAN COMPANY	USCAN2	532.082	4471.003	3.05	223	0.00	0.00	295.22	0.0158	0.069
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR1	528.842	4452.675	12.80	203	0.30	6.28	449.67	0.0092	0.040
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR2	528.842	4452.675	13.72	203	0.61	7.92	435.78	0.0818	0.358
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR3	528.842	4452.675	3.05	203	0.00	0.00	295.22	3.6015	15.775
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR4	528.842	4452.675	18.29	203	1.37	13.56	533.00	0.0921	0.403
WV	Brooke	WHEELING CORRUGATING COMPANY	WHCOR5	528.842	4452.675	12.80	203	0.30	11.89	449.67	0.0102	0.045
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB1	533.377	4466.013	60.96	206	2.28	5.06	583.00	2.3790	10.420
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB4	533.377	4466.013	24.99	206	9.20	0.88	394.11	4.2671	18.690
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB3	533.377	4466.013	13.11	206	0.70	23.19	333.00	4.1804	18.310
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB2	533.377	4466.013	60.96	206	2.44	5.00	588.56	1.2078	5.290
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB8	533.377	4466.013	3.05	206	0.00	0.00	295.22	17.4095	76.253
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB6	533.377	4466.013	18.29	206	2.28	13.41	318.00	8.0228	35.140
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB7	533.377	4466.013	22.86	206	11.30	0.88	394.11	7.3744	32.300
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB5	533.377	4466.013	76.20	206	3.96	8.32	596.89	6.6689	29.210

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WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB9	533.377	4466.013	60.96	206	2.74	10.09	450.78	1.3166	5.767
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB10	533.377	4466.013	6.10	206	0.61	8.42	568.00	0.2550	1.117
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB11	533.377	4466.013	24.38	206	0.51	10.45	316.33	3.2100	14.060
WV	Brooke	WHEELING-PITTSBURGH STEEL CORPORATION - STEUB2	STEB12	533.377	4466.013	63.40	206	5.67	19.99	1273.00	1.2139	5.317
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN1	530.962	4495.418	38.10	205	0.91	14.32	633.00	0.1720	0.753
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN2	530.962	4495.418	38.10	205	1.07	4.88	744.11	0.0650	0.285
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN3	530.962	4495.418	38.10	205	0.61	3.57	775.78	0.0100	0.044
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN4	530.962	4495.418	41.15	205	1.68	6.16	714.11	0.1697	0.743
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN5	530.962	4495.418	38.10	205	1.98	1.95	490.22	0.1224	0.536
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN6	530.962	4495.418	30.48	205	0.76	3.57	539.67	0.0070	0.031
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN7	530.962	4495.418	41.15	205	0.76	3.57	539.67	0.0189	0.083
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN8	530.962	4495.418	45.72	205	1.83	11.58	466.89	1.8190	7.967
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN9	530.962	4495.418	10.67	205	2.44	3.26	1033.00	0.0078	0.034
WV	Hancock	ERGON - WEST VIRGINIA, INC.	ERGN10	530.962	4495.418	4.57	205	0.05	1.01	421.89	0.0023	0.010
WV	Hancock	ISG WEIRTON	ISG2	533.678	4474.673	3.05	224	0.00	0.00	295.22	202.4421	886.696
WV	Hancock	ISG WEIRTON	ISG1	533.678	4474.673	76.20	224	3.35	4.57	559.67	100.1050	438.460
WV	Hancock	ISG WEIRTON	ISG3	533.678	4474.673	45.72	224	3.51	4.08	324.11	1.0685	4.680
WV	Hancock	ISG WEIRTON	ISG4	533.678	4474.673	60.96	224	3.35	3.05	559.67	142.2854	623.210
WV	Hancock	ISG WEIRTON	ISG5	533.678	4474.673	60.96	224	5.18	6.40	335.78	715.2998	3133.013
WV	Hancock	ISG WEIRTON	ISG8	533.678	4474.673	17.07	224	1.52	8.53	310.78	4.1530	18.190
WV	Hancock	ISG WEIRTON	ISG6	533.678	4474.673	27.74	224	2.59	13.41	408.00	0.1484	0.650
WV	Hancock	ISG WEIRTON	ISG7	533.678	4474.673	73.15	224	0.49	16.76	366.33	0.0731	0.320
WV	Hancock	ISG WEIRTON	ISG9	533.678	4474.673	76.20	224	3.66	10.67	885.78	6.7321	29.487
WV	Hancock	ISG WEIRTON	ISG10	533.678	4474.673	12.80	224	1.22	7.01	579.67	0.5312	2.327
WV	Hancock	ISG WEIRTON	ISG11	533.678	4474.673	52.42	224	3.05	15.85	487.44	1.5150	6.636
WV	Hancock	ISG WEIRTON	ISG12	533.678	4474.673	63.09	224	4.88	8.23	313.00	2.4000	10.512
WV	Hancock	ISG WEIRTON	ISG13	533.678	4474.673	54.86	224	3.35	17.98	455.22	4.3742	19.159
WV	Hancock	ISG WEIRTON	ISG14	533.678	4474.673	68.58	224	3.05	2.44	505.22	5.5878	24.474
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL2	532.902	4496.870	8.53	222	0.61	2.59	294.11	0.0198	0.087
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL1	532.902	4496.870	17.37	222	0.31	5.18	294.11	0.0076	0.033
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL6	532.902	4496.870	14.02	222	0.91	0.64	449.67	0.1110	0.486
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL3	532.902	4496.870	11.89	222	0.61	0.49	449.67	0.0593	0.260
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL8	532.902	4496.870	13.72	222	0.91	2.59	449.67	0.0317	0.139
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL7	532.902	4496.870	13.41	222	0.91	0.64	449.67	0.0276	0.121
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL4	532.902	4496.870	12.80	222	0.61	0.55	449.67	0.0158	0.069
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL5	532.902	4496.870	13.11	222	0.46	0.12	449.67	0.0036	0.016
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL11	532.902	4496.870	9.75	222	0.13	0.18	324.67	0.0037	0.016
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL9	532.902	4496.870	13.72	222	0.15	0.43	324.67	0.0035	0.015
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL12	532.902	4496.870	13.72	222	0.30	1.01	324.67	0.0022	0.010
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL10	532.902	4496.870	13.41	222	0.30	1.01	324.67	0.0013	0.006

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WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL19	532.902	4496.870	11.28	222	0.61	4.88	294.11	3.4117	14.943
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL20	532.902	4496.870	12.80	222	0.40	12.74	294.11	2.1804	9.550
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL13	532.902	4496.870	12.80	222	0.40	12.01	294.11	1.3014	5.700
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL14	532.902	4496.870	12.50	222	0.41	8.75	294.11	0.9863	4.320
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL15	532.902	4496.870	13.41	222	0.41	30.94	294.11	0.1895	0.830
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL16	532.902	4496.870	11.28	222	0.61	13.75	294.11	0.1324	0.580
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL21	532.902	4496.870	7.62	222	0.36	4.02	294.11	0.0411	0.180
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL17	532.902	4496.870	14.32	222	0.41	9.11	294.11	0.0091	0.040
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL18	532.902	4496.870	13.41	222	0.41	9.11	294.11	0.0068	0.030
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL22	532.902	4496.870	10.36	222	0.15	0.88	294.11	0.1043	0.457
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL23	532.902	4496.870	10.06	222	0.61	0.98	294.11	0.0723	0.317
WV	Hancock	THE HOMER LAUGHLIN CHINA COMPANY	HMRL24	532.902	4496.870	3.05	222	0.00	0.00	295.22	0.5195	2.275
WV	Marshall	BAYER CORPORATION	BAYR1	514.656	4396.473	3.05	195	0.40	11.61	294.11	0.0487	0.213
WV	Marshall	BAYER CORPORATION	BAYR2	514.656	4396.473	25.60	195	0.25	3.81	294.11	0.0137	0.060
WV	Marshall	BAYER CORPORATION	BAYR3	514.656	4396.473	15.24	195	1.83	13.81	431.89	0.1892	0.829
WV	Marshall	BAYER CORPORATION	BAYR19	514.656	4396.473	40.23	195	1.01	15.64	383.56	0.4932	2.160
WV	Marshall	BAYER CORPORATION	BAYR15	514.656	4396.473	39.32	195	0.89	7.50	523.00	0.1941	0.850
WV	Marshall	BAYER CORPORATION	BAYR16	514.656	4396.473	29.26	195	0.65	12.80	423.00	0.1553	0.680
WV	Marshall	BAYER CORPORATION	BAYR11	514.656	4396.473	32.92	195	0.51	15.36	288.56	0.0822	0.360
WV	Marshall	BAYER CORPORATION	BAYR4	514.656	4396.473	28.35	195	0.55	1.55	288.56	0.0616	0.270
WV	Marshall	BAYER CORPORATION	BAYR18	514.656	4396.473	40.23	195	0.30	9.08	323.00	0.0571	0.250
WV	Marshall	BAYER CORPORATION	BAYR14	514.656	4396.473	39.32	195	0.69	3.57	373.00	0.0434	0.190
WV	Marshall	BAYER CORPORATION	BAYR12	514.656	4396.473	29.26	195	0.37	15.36	288.56	0.0434	0.190
WV	Marshall	BAYER CORPORATION	BAYR21	514.656	4396.473	3.05	195	0.00	0.00	295.22	0.0434	0.190
WV	Marshall	BAYER CORPORATION	BAYR9	514.656	4396.473	32.92	195	0.49	17.65	288.56	0.0411	0.180
WV	Marshall	BAYER CORPORATION	BAYR10	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.0342	0.150
WV	Marshall	BAYER CORPORATION	BAYR5	514.656	4396.473	33.53	195	0.40	14.48	294.11	0.0251	0.110
WV	Marshall	BAYER CORPORATION	BAYR7	514.656	4396.473	32.92	195	0.46	16.92	288.56	0.0251	0.110
WV	Marshall	BAYER CORPORATION	BAYR13	514.656	4396.473	39.32	195	0.69	3.57	423.00	0.0228	0.100
WV	Marshall	BAYER CORPORATION	BAYR6	514.656	4396.473	32.92	195	0.37	15.24	288.56	0.0228	0.100
WV	Marshall	BAYER CORPORATION	BAYR8	514.656	4396.473	32.92	195	0.49	15.64	288.56	0.0228	0.100
WV	Marshall	BAYER CORPORATION	BAYR17	514.656	4396.473	32.00	195	0.41	15.03	334.11	0.0183	0.080
WV	Marshall	BAYER CORPORATION	BAYR20	514.656	4396.473	27.13	195	0.25	10.42	293.00	0.0183	0.080
WV	Marshall	BAYER CORPORATION	BAYR22	514.656	4396.473	30.48	195	0.46	27.43	327.44	0.0440	0.193
WV	Marshall	BAYER CORPORATION	BAYR23	514.656	4396.473	15.24	195	1.83	8.63	453.00	0.1202	0.526
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA1	530.320	4401.846	7.31	234	0.46	8.29	449.67	0.0205	0.090
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA2	530.320	4401.846	10.06	234	0.46	21.73	644.11	0.3503	1.534
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA3	530.320	4401.846	10.97	234	0.70	21.09	644.11	0.5193	2.274
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA4	530.320	4401.846	6.10	234	0.10	5.56	810.78	0.0075	0.033
WV	Marshall	COLUMBIA GAS - ADALINE CS	COLA5	530.320	4401.846	4.57	234	0.30	5.36	449.67	0.0102	0.045

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM1	540.909	4423.761	0.61	259	0.61	2.96	449.67	0.0102	0.045
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM2	540.909	4423.761	6.10	259	0.05	5.56	810.78	0.0150	0.066
WV	Marshall	COLUMBIA GAS - MAJORSVILLE CS	COLM3	540.909	4423.761	6.71	259	0.30	19.63	588.56	0.0782	0.343
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC1	515.324	4405.464	60.96	194	1.28	25.08	477.44	14.5616	63.780
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC2	515.324	4405.464	39.62	194	1.22	0.73	463.56	0.0099	0.043
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC3	515.324	4405.464	24.38	194	0.36	17.59	338.56	0.3950	1.730
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC4	515.324	4405.464	21.03	194	0.30	5.82	305.22	1.0145	4.443
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC5	515.324	4405.464	28.04	194	0.30	16.31	338.56	0.6195	2.713
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC6	515.324	4405.464	21.33	194	0.23	13.11	296.89	1.0221	4.477
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC7	515.324	4405.464	21.64	194	0.66	2.26	296.89	0.3729	1.633
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC8	515.324	4405.464	28.95	194	0.61	16.18	449.67	0.6195	2.713
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC9	515.324	4405.464	21.33	194	0.56	19.32	449.67	0.4026	1.763
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC10	515.324	4405.464	24.08	194	0.56	19.32	449.67	4.0723	17.837
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC11	515.324	4405.464	18.29	194	0.36	6.52	338.56	4.0723	17.837
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC12	515.324	4405.464	23.77	194	0.30	17.07	296.89	2.5540	11.187
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC13	515.324	4405.464	7.62	194	0.61	11.43	644.11	0.0511	0.224
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC14	515.324	4405.464	23.47	194	0.76	1.16	463.56	0.0129	0.057
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC15	515.324	4405.464	7.62	194	0.51	21.00	644.11	0.0061	0.027
WV	Marshall	COLUMBIAN CHEMICALS COMPANY	COLC16	515.324	4405.464	60.96	194	1.49	8.66	588.56	0.0076	0.033
WV	Marshall	PPG INDUSTRIES, INC.	PPG1	513.624	4398.580	68.58	195	4.88	6.71	441.33	0.3918	1.716
WV	Marshall	PPG INDUSTRIES, INC.	PPG2	513.624	4398.580	90.83	195	2.74	24.38	445.78	0.3417	1.497
WV	Marshall	PPG INDUSTRIES, INC.	PPG3	513.624	4398.580	30.48	195	0.20	0.18	1399.67	0.0018	0.008
WV	Marshall	PPG INDUSTRIES, INC.	PPG4	513.624	4398.580	30.48	195	0.91	2.80	505.22	0.2250	0.985
WV	Marshall	PPG INDUSTRIES, INC.	PPG5	513.624	4398.580	49.38	195	1.37	1.46	533.00	0.0920	0.403
WV	Marshall	PPG INDUSTRIES, INC.	PPG6	513.624	4398.580	11.89	195	0.46	0.09	699.67	0.0205	0.090
WV	Marshall	PPG INDUSTRIES, INC.	PPG7	513.624	4398.580	30.48	195	0.76	10.27	685.78	0.0177	0.078
WV	Marshall	PPG INDUSTRIES, INC.	PPG8	513.624	4398.580	3.05	195	0.00	0.00	295.22	4.2998	18.833
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC1	515.487	4409.682	57.91	200	3.81	19.54	1219.11	52.7603	231.090
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC2	515.487	4409.682	57.91	200	3.81	22.19	1252.44	75.4526	330.482
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC4	515.487	4409.682	3.66	200	0.48	10.06	288.56	0.0190	0.083
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC3	515.487	4409.682	9.14	200	0.25	9.14	288.56	0.0099	0.043
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC5	515.487	4409.682	36.27	200	1.52	21.00	469.67	17.6849	77.460
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC6	515.487	4409.682	32.00	200	1.22	0.61	471.89	0.0502	0.220
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC9	515.487	4409.682	10.97	200	0.45	12.19	310.78	0.1553	0.680
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC8	515.487	4409.682	15.24	200	0.45	17.07	310.78	0.1454	0.637
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC11	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.1324	0.580
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC7	515.487	4409.682	5.79	200	0.55	18.29	288.56	0.0799	0.350
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC15	515.487	4409.682	76.50	200	0.33	19.51	299.67	0.0776	0.340
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC14	515.487	4409.682	32.31	200	0.33	19.81	299.67	0.0708	0.310
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC10	515.487	4409.682	37.49	200	0.29	11.58	288.56	0.0662	0.290

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC12	515.487	4409.682	37.49	200	0.24	11.58	288.56	0.0662	0.290
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC13	515.487	4409.682	10.97	200	0.58	5.49	288.56	0.0068	0.030
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC18	515.487	4409.682	17.68	200	0.30	16.15	288.56	0.0190	0.083
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC17	515.487	4409.682	18.59	200	0.34	10.06	288.56	0.0099	0.043
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC16	515.487	4409.682	9.45	200	0.49	19.20	288.56	0.0023	0.010
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC19	515.487	4409.682	3.96	200	0.27	13.11	288.56	0.0023	0.010
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC20	515.487	4409.682	5.79	200	0.70	20.73	288.56	0.2785	1.220
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC21	515.487	4409.682	29.87	200	0.30	5.49	288.56	0.0312	0.137
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC22	515.487	4409.682	29.87	200	0.30	3.05	288.56	0.0190	0.083
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC23	515.487	4409.682	28.04	200	0.30	3.05	288.56	0.0152	0.067
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC24	515.487	4409.682	28.35	200	0.22	19.81	288.56	0.0883	0.387
WV	Marshall	VENCO MOUNDSVILLE CALCINING PLANT	VENC25	515.487	4409.682	3.05	200	0.00	0.00	295.22	4.7024	20.597
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL1	560.001	4396.138	0.30	309	0.30	3.78	255.22	1.1484	5.030
WV	Monongalia	CONSOL- BLACKSVILLE #2 PREPARATION PLANT	CONSL2	560.001	4396.138	27.43	309	2.44	14.32	324.11	2.7694	12.130
WV	Ohio	SHORT CREEK LANDFILL	SHRTCR	530.663	4444.246	3.05	331	0.00	0.00	295.22	0.6164	2.700
			EGUs									
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES1	554.452	4500.526	68.58	241	2.38	14.93	441.49	37.0060	162.086
PA	Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	AES2	554.452	4500.526	68.58	241	1.46	19.65	441.49	1.3299	5.825
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST1	629.178	4532.009	307.22	255	4.45	23.38	449.27	90.8290	397.831
PA	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG	ARMST2	629.178	4532.009	0.61	255	1.07	3.14	295.38	16.1150	70.584
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM1	549.486	4498.347	289.55	225	5.79	87.43	324.67	571.9700	2505.229
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM2	549.362	4498.154	182.87	225	5.79	40.60	323.00	127.3400	557.749
PA	Beaver	PA POWER CO/BRUCE MANSFIELD PLT	BRUCM3	549.048	4498.335	0.61	241	1.07	3.14	295.38	3.0092	13.180
OH	Belmont	R. E. BURGER PLANT	BURG1	520.417	4417.673	259.07	215	6.55	6.38	461.33	617.5200	2704.738
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD1	529.860	4455.801	251.45	203	6.71	2.70	447.05	153.9600	674.345
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD2	529.860	4455.801	251.45	203	6.71	2.50	447.05	148.8600	652.007
OH	Jefferson	CARDINAL POWER PLANT (CARDINAL OPER)	CARD5	529.228	4454.692	274.31	203	7.31	3.10	430.38	179.7500	787.305
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES1	602.379	4488.086	168.40	231	8.20	11.60	324.70	116.2700	509.263
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES2	602.455	4488.109	60.96	232	0.60	28.01	629.83	0.0123	0.054
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES3	602.296	4487.985	16.46	232	0.46	9.54	295.38	0.1625	0.712
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES4	602.296	4487.985	10.06	232	0.79	16.22	295.38	0.2409	1.055
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES5	602.296	4487.985	15.24	232	1.07	3.14	295.38	0.6737	2.951
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES6	602.296	4487.985	28.95	232	0.52	9.85	295.38	0.3063	1.342
PA	Allegheny	ORION POWER MIDWEST, CHESWICK STATION	CHES7	602.296	4487.985	17.07	232	0.70	16.49	295.38	0.1715	0.751
PA	Fayette	FAYETTE ENERGY FACILITY	FAYENG	593.016	4412.996	18.90	270	3.05	18.68	580.38	10.5340	46.139
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART1	592.901	4394.989	167.63	245	7.16	23.47	415.94	1127.9000	4940.202
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART2	592.901	4394.989	3.05	245	0.00	0.00	295.38	56.3400	246.769
WV	Monongalia	MONONGAHELA POWER CO.- FORT MARTIN	FMART3	592.901	4394.989	155.44	245	4.45	18.90	380.94	9.0274	39.540
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF1	591.802	4412.271	167.63	262	13.72	17.70	328.00	372.5300	1631.681
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF2	591.802	4412.271	0.61	262	0.55	5.49	295.38	22.9330	100.447

State	County	Facility Name	ID	UTMx (km)	UTMy (km)	Ht (m)	Elev (m)	Diam (m)	Vel (m/s)	Temp (K)	PM25 (lb/hr)	PM25 (TPY)
PA	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FER	HATSF3	591.802	4412.271	0.61	262	0.79	9.63	295.38	2.6673	11.683
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER1	652.765	4486.326	243.83	366	7.31	26.03	427.60	293.4900	1285.486
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER2	652.765	4486.326	260.29	366	8.23	19.14	441.49	215.9900	946.036
PA	Indiana	HOMER CITY OL/HOMER CITY GEN STA	HOMER3	652.765	4486.326	0.61	366	1.07	11.52	295.38	17.0720	74.775
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM1	515.468	4410.652	274.31	194	7.01	29.87	427.60	480.9500	2106.561
WV	Marshall	OHIO POWER - KAMMER PLANT	KAMM2	515.468	4410.652	3.05	194	0.00	0.00	295.38	1.1750	5.147
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST1	640.174	4502.359	171.50	308	10.30	30.60	325.20	336.2000	1472.556
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST2	640.174	4502.359	83.82	310	2.13	15.86	616.49	0.1697	0.743
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST3	640.174	4502.359	5.49	310	1.22	9.54	699.83	0.0183	0.080
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST4	640.174	4502.359	0.61	310	1.07	3.14	295.38	16.0260	70.194
PA	Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	KEYST5	640.174	4502.359	0.61	310	1.16	6.80	295.38	3.6755	16.099
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA1	553.211	4532.067	228.60	241	6.90	16.20	394.10	289.3100	1267.178
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA2	553.211	4532.067	6.10	241	1.10	23.40	616.30	0.0082	0.036
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA3	553.211	4532.067	0.61	243	1.07	3.14	295.38	1.5249	6.679
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA4	553.211	4532.067	0.61	243	0.52	12.19	295.38	0.6481	2.839
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA5	553.211	4532.067	0.61	243	0.64	6.68	295.38	0.1640	0.718
PA	Lawrence	ORION POWER MIDWEST /NEW CASTLE	NEWCA6	553.177	4532.100	18.90	243	3.05	18.68	580.38	6.0251	26.390
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT1	515.719	4408.910	365.74	194	10.06	32.92	428.72	539.4500	2362.791
WV	Marshall	OHIO POWER - MITCHELL PLANT	OMIT2	515.719	4408.910	3.05	194	0.00	0.00	295.38	1.3623	5.967
OH	Jefferson	W. H. SAMMIS PLANT	SAMM1	531.264	4486.691	259.07	210	9.75	12.57	320.22	506.8100	2219.828
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM1	592.001	4456.411	119.48	229	7.92	15.10	324.70	91.0046	398.600
PA	Washington	ORION POWER MIDWEST/ELRAMA	ELRAM2	592.001	4456.411	0.61	233	1.16	6.80	295.38	5.4216	23.747
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL1	587.739	4452.830	114.27	228	6.10	19.20	423.72	57.1900	250.470
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL2	587.739	4452.830	45.72	228	1.07	6.98	469.27	0.0025	0.011
PA	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL	MTCHL3	587.739	4452.830	0.61	228	0.55	5.49	295.38	4.1319	18.098

County	Facility Name	Device ID	Stack ID	Lat	Lon	NOX (TPY)	SO2 (TPY)
Allegheny	ACEOMATIC RECON LLC	NEIPA2106	1	40.4866	-80.0726	0.726	0.178
Allegheny	ALLDERDICE SCHOOL	NEIPA0030564	1	40.3826	-79.9209	0.948	0.006
Allegheny	ALLEGHENY ASPHALT MFG INC	NEIPA2149	1	40.4324	-79.9763	7.748	0.727
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	NEIPA0030133	1	40.4971	-80.2378	9.014	0.054
Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	NEIPA2159	1	40.4742	-80.0427	6.998	20.296
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	NEIPA0030451	1	40.5441	-79.7672	23.297	0.009
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	NEI39	3	40.6098	-79.7282	351.612	40.379
Allegheny	ALLEGHENY VALLEY HOSPITAL	NEIPA2120	1	40.6175	-79.7373	2.037	6.356
Allegheny	AMERICAN BRIDGE MANUFACTURING	NEI2PA301032	1	40.5246	-80.1724	2.835	0.125
Allegheny	AMG RESOURCES CORPORATION	NEIPA2144	1	40.5090	-80.1238	0.712	0.047
Allegheny	ARROW CONCRETE COMPANY	NEIPA0030812	1	40.4310	-79.9956	4.474	0.137
Allegheny	ARSENAL SCHOOL	NEIPA0030573	1	40.4695	-79.9632	0.542	0.003
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	NEI5609	1	40.4994	-80.0825	46.989	0.223
Allegheny	BAKE- LINE GROUP LLC	NEIPA0030241	1	40.4563	-79.9154	4.130	0.025
Allegheny	BAKERSTOWN CONTAINER CORPORATION	NEIPA2102	1	40.6539	-79.9355	2.172	0.119
Allegheny	BARBER SPRING	NEIPA2096	1	40.4836	-79.9556	5.235	0.071
Allegheny	BELLEFIELD BOILER PLANT	NEIPA2162	1	40.4466	-79.9491	197.302	722.021
Allegheny	BEST FEEDS & FARM SUPPLIES INC	NEIPA0030379	1	40.3946	-80.1788	1.443	0.009
Allegheny	BETTIS ATOMIC POWER LABORATORY	NEIPA2100	1	40.3613	-79.8988	5.873	0.044
Allegheny	BFI - IMPERIAL LANDFILL	NEIPALF10156	1	40.4479	-80.2748	68.324	19.177
Allegheny	BOX USA	NEIPA2129	1	40.4960	-79.9109	1.644	0.010
Allegheny	BP PRODUCTS NORTH AMERICA INC	NEIPA003348	1	40.5261	-80.1784	0.069	0.000
Allegheny	BRADDOCK RECOVERY INC	NEIPA0030913	1	40.3911	-79.8520	3.568	1.213
Allegheny	BUCKEYE CORAOPOLIS PIPELINE FACILITY	NEIPA2133	1	40.5262	-80.1807	4.392	---
Allegheny	CALGON CARBON CORPORATION	NEIPA003346	2	40.4939	-80.0792	6.490	2.536
Allegheny	CARGILL INC - SALT DIVISION	NEIPA0030823	1	40.4838	-80.0621	0.913	0.061
Allegheny	CARRICK SCHOOL	NEIPA0030577	1	40.3922	-79.9891	0.620	0.004
Allegheny	CDC NIOSH PITTSBURGH RESEARCH LAB	NEIPA2092	1	40.3052	-79.9769	20.862	77.174
Allegheny	CENTRAL FOOD KITCHEN	NEIPA0030634	1	40.4327	-79.9850	1.286	0.008
Allegheny	CHAMBERS DEVELOPMENT CO INC	NEI1163	1	40.4075	-79.7944	51.981	12.315
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	NEIPA2124	1	40.4541	-79.9599	5.664	0.034
Allegheny	CLAIRTON SLAG INC	NEIPA2131	1	40.2697	-79.8980	17.505	3.082
Allegheny	CONNELLEY SCHOOL	NEIPA0030581	1	40.4554	-80.0082	1.247	0.007
Allegheny	CP INDUSTRIES	NEIPA2167	1	40.3351	-79.8534	1.478	0.009
Allegheny	CREIGHTON STATION	NEIPA0030338	1	40.5828	-79.7778	1.451	0.003
Allegheny	DICE COMPRESSOR STATION	NEIPA0031215	1	40.4621	-79.7040	19.839	0.007
Allegheny	DLM FOODS	NEI36	1	40.4548	-79.9882	214.476	626.468
Allegheny	DUQUESNE UNIVERSITY	NEIPA2119	1	40.4363	-79.9931	24.647	0.263
Allegheny	EASTMAN CHEMICAL RESINS INC	NEI31	3	40.2635	-79.9052	34.787	4.918
Allegheny	EPIC METALS CORPORATION	NEIPA2112	1	40.4056	-79.8758	0.533	0.003
Allegheny	EXXONMOBIL NEVILLE ISLAND MARKETING TERM	NEIPA2155	2	40.5027	-80.1137	0.449	0.030

County	Facility Name	Device ID	Stack ID	Lat	Lon	NOX (TPY)	SO2 (TPY)
Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	NEIPA0030498	1	40.5172	-79.8704	1.297	0.008
Allegheny	GALVTECH	NEIPA0030134	1	40.3923	-79.9326	34.260	0.206
Allegheny	GE CONSUMER PRODUCTS LIGHTING	NEIPA2174	2	40.3659	-80.0999	161.223	0.092
Allegheny	GENERAL ELECTRIC APPARATUS SERVICE	NEIPA2172	1	40.3554	-79.9371	0.340	0.002
Allegheny	GENERAL MOTORS PITTSBURGH PLANT	NEIPA2154	1	40.3431	-79.9029	7.620	1.123
Allegheny	GLENSHAW GLASS COMPANY INC	NEIPA2173	1	40.5207	-79.9516	233.956	106.525
Allegheny	GUARDIAN INDUSTRIES CORP FLOREFFE	NEIPA003338	1	40.2555	-79.9159	1056.264	94.278
Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	NEIPA2125	1	40.4428	-79.9594	2.386	0.259
Allegheny	HEIGHTS PLAZA MATERIALS INC	NEIPA0030308	1	40.4428	-79.9594	8.803	0.579
Allegheny	HOECHSTETTER PRINTING	NEI2PA301033	1	40.4476	-79.8936	0.272	0.002
Allegheny	HUSSEY COPPER LTD	NEI33	2	40.5733	-80.2218	20.787	0.233
Allegheny	IA CONSTRUCTION GIBSONIA	NEIPA2165	1	40.6209	-79.8746	2.398	1.168
Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	NEIPA2113	1	40.3173	-80.0773	3.751	0.076
Allegheny	KELLY RUN SANITATION	NEIPA2123	1	40.2515	-79.8766	15.891	0.743
Allegheny	KINDER MORGAN INDIANOLA PLANT	NEIPA003347	1	40.5712	-79.8636	5.919	0.140
Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	NEIPA0030208	1	40.3543	-79.8802	6.341	3.568
Allegheny	KOPP GLASS INCORPORATED	NEIPA2098	2	40.4219	-79.8885	5.748	0.034
Allegheny	LAUREL MOUNTAIN WHIRLPOOLS INC	NEIPA2117	1	40.4086	-79.8156	0.171	0.001
Allegheny	LIBERTY POLYGLAS PULTRUSIONS	NEI2172	1	40.3391	-79.8993	0.279	0.002
Allegheny	LIBERTY-PITTSBURGH SYSTEMS INC	NEIPA2140	1	40.5088	-80.1128	0.041	0.000
Allegheny	LOZIER CORPORATION	NEIPA0030330	1	40.3770	-80.0000	0.650	0.004
Allegheny	MARSH ASPHALT INC - DRAVOSBURG PLANT	NEIPA2175	1	40.3517	-79.8821	3.074	0.553
Allegheny	MAYVIEW STATE HOSPITAL	NEIPA2161	1	40.3250	-80.1083	8.143	0.120
Allegheny	MCCONWAY & TORLEY CORPORATION	NEIPA003343	2	40.4785	-79.9647	5.705	1.948
Allegheny	MCKEES ROCKS FORGINGS	NEIPA2128	1	40.4772	-80.0606	7.481	0.042
Allegheny	MERCY HOSPITAL OF PITTSBURGH	NEIPA2164	1	40.4367	-79.9867	7.060	0.285
Allegheny	METALTECH	NEIPA0030760	1	40.4365	-79.9696	16.848	0.101
Allegheny	MOTIVA ENTERPRISES LLC	NEIPA2136	1	40.5268	-80.1796	3.137	0.041
Allegheny	MT LEBANON HIGH SCHOOL	NEIPA0030950	1	40.3757	-80.0506	2.113	0.013
Allegheny	NASH_ELMO INDUSTRIES L L C	NEIPA2116	1	40.2785	-79.8767	1.300	0.026
Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	NEIPA2132	1	40.3032	-79.9775	0.985	4.385
Allegheny	NEVILLE CHEMICAL COMPANY	NEI32	1	40.5021	-80.0984	57.347	9.748
Allegheny	NEVILLE PULVERIZED LIME	NEIPA0030047	1	40.6101	-80.2010	1.178	0.078
Allegheny	NEXTECH	NEIPA0030889	1	40.4033	-79.8322	12.090	0.073
Allegheny	NRG ENERGY CENTER PITTSBURGH	NEIPA2118	1	40.4494	-80.0069	43.928	0.227
Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	NEIPA2171	1	40.4648	-80.0435	18.821	1.138
Allegheny	ORION POWER MIDWEST CHESWICK STATION	NEI13183	1	40.5370	-79.7911	5761.731	42018.445
Allegheny	ORION POWER MIDWEST PHILLIPS STATION	NEIPA2093	1	40.5697	-80.2298	0.000	0.000
Allegheny	PANNIER CORPORATION GRAPHICS DIVISION	NEIPA2114	1	40.6264	-79.8975	0.111	0.001
Allegheny	PARC TECHNICAL SERVICES INC	NEIPA2111	1	40.5456	-79.8280	1.502	0.083
Allegheny	PITT PENN OIL COMPANY	NEI2176	1	40.5717	-79.7773	1.499	0.003

County	Facility Name	Device ID	Stack ID	Lat	Lon	NOX (TPY)	SO2 (TPY)
Allegheny	PITTSBURGH ALLEGHENY THERMAL LTD	NEIPA2146	1	40.4430	-80.0032	91.036	0.254
Allegheny	PITTSBURGH BREWING CO PITTSBURGH	NEIPA17359	1	40.4613	-79.9677	28.033	77.913
Allegheny	PITTSBURGH ELECTRICAL INSULATION	NEIPA2108	1	40.4076	-79.8993	0.069	0.000
Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CTR	NEIPA003333	1	40.4448	-79.7182	2.345	0.014
Allegheny	PPG INDUSTRIES INC SPRINGDALE	NEI54	3	40.5371	-79.7867	5.754	1.773
Allegheny	PRECOAT METALS A DIV OF SEQUA COATINGS	NEI58	2	40.3269	-79.8430	11.186	0.067
Allegheny	PRESSURE CHEMICAL COMPANY	NEIPA003341	1	40.4623	-79.9692	0.500	0.003
Allegheny	PRUETT-SCHAFFER CHEMICAL CO INC	NEIPA003339	1	40.4612	-80.0565	0.140	0.001
Allegheny	RANBAR TECHNOLOGY INC	NEI43352	2	40.5214	-79.9473	1.303	0.008
Allegheny	REDLAND BRICK INC - HARMAR PLANT	NEIPA2104	2	40.5584	-79.8413	29.294	2.779
Allegheny	REICHHOLD INC	NEIPA003336	1	40.3600	-80.1238	11.826	0.072
Allegheny	ROYSTON LABORATORIES DIVISION	NEIPA2163	3	40.4878	-79.8661	0.036	0.000
Allegheny	SCHENLEY SCHOOL	NEIPA0030611	1	40.4523	-79.9552	1.151	0.007
Allegheny	SHALER AREA INTERMEDIATE SCHOOL	NEIPA0030642	1	40.5264	-79.7970	0.500	0.003
Allegheny	SHENANGO INC	NEI6999	3	40.4946	-80.0790	465.202	307.778
Allegheny	SOUTH HIGH SCHOOL	NEIPA0030617	1	40.4300	-79.9897	0.825	0.005
Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH	NEIPA2166	1	40.4716	-80.0422	8.564	22.588
Allegheny	SUN REFINING AND MARKETING BLAWNOX	NEIPA2145	1	40.5009	-79.8600	0.158	0.001
Allegheny	SUNOCO CHEMICALS INC NEVILLE ISLAND	NEIPA2153	1	40.4957	-80.0796	0.104	0.005
Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	NEIPA2151	1	40.3734	-80.1143	25.480	29.070
Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	NEIPA2139	1	40.4720	-80.0493	27.567	22.425
Allegheny	THE VALSPAR CORPORATION	NEI1493	1	40.4747	-80.0445	2.084	0.013
Allegheny	TRINITY INDUSTRIES INC PLT # 441	NEIPA2127	1	40.4703	-80.0587	0.329	0.002
Allegheny	TRUMBULL CORPORATION	NEIPA2148	1	40.5105	-80.1384	8.910	0.843
Allegheny	TUBE CITY INC	NEIPA0030774	1	40.3504	-79.9521	0.065	0.000
Allegheny	UNION ELECTRIC STEEL CORPORATION	NEIPA2089	2	40.4155	-80.0783	7.151	0.032
Allegheny	UNITED REFINING CO SPRINGDALE ASPHALT TE	NEIPA0030339	1	40.5546	-79.7787	0.700	0.004
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPARC	NEIPA0030335	1	40.5452	-79.8294	8.712	0.064
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	NEIPA003335	3	40.3582	-80.1086	45.366	3.927
Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	NEI2PA300005	1	40.4428	-79.9594	5.703	0.102
Allegheny	UPMC - OAKLAND CAMPUS	NEIPA2109	1	40.4414	-79.9609	7.125	0.582
Allegheny	UPMC MAGEE HOSPITAL	NEIPA2158	1	40.4360	-79.9614	7.005	0.876
Allegheny	UPMC MCKEESPORT	NEIPA17513	1	40.3543	-79.8492	8.972	0.217
Allegheny	UPMC SHADYSIDE	NEIPA17516	1	40.4548	-79.9464	13.445	0.453
Allegheny	UPMC SOUTHSIDE	NEIPA0030766	1	40.4272	-79.9780	2.479	0.055
Allegheny	US AIRWAYS MAINTENANCE BASE	NEIPA2095	1	40.5040	-80.2341	5.471	---
Allegheny	US STEEL CORPORATION - IRVIN PLANT	NEIPA2156	1	40.3349	-79.9026	596.255	330.233
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	NEIPA2157	2	40.3920	-79.8575	298.171	1251.559
Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	NEIPA2097	1	40.4957	-79.8871	2.078	0.012
Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	NEIPA2122	1	40.4759	-79.8849	2.591	0.045
Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	NEIPA17510	1	40.4549	-79.9617	3.845	0.024

County	Facility Name	Device ID	Stack ID	Lat	Lon	NOX (TPY)	SO2 (TPY)
Allegheny	VALLEY PROTEINS (PA) INC	NEIPA2107	1	40.5059	-80.1172	9.164	0.005
Allegheny	VORTEC U-PARC PROCESS TEST FACILITY	NEIPA2115	1	40.5414	-79.8334	0.010	0.000
Allegheny	WESTINGHOUSE SCHOOL	NEIPA0030623	1	40.4625	-79.8996	0.780	0.005
Allegheny	WHEMCO - HAYS PLANT	NEIPA0030982	1	40.3917	-79.9326	2.709	0.022
Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	NEIPAT$1474	2	40.4015	-79.9253	2.537	0.015
Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	NEIPA0030885	1	40.4498	-79.9835	7.000	0.042
Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG POWER STATION	NEI8226	1	40.9290	-79.4657	4127.900	32499.700
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	NEIPA0050121	1	40.6320	-79.3505	32.300	0.907
Armstrong	DLR MINING INC/TRIPLE K #1 DEEP MINE	NEI2PA050068	1	40.6709	-79.4676	13.180	4.160
Armstrong	DOMINION PEOPLES/GIRTY STA	NEIPA2176	1	40.6377	-79.3572	135.000	---
Armstrong	DOMINION PEOPLES/ROARING RUN STA	NEIPA0051225	1	40.5760	-79.5006	2.500	---
Armstrong	DOMINION PEOPLES/VALLEY STA	NEIPA2177	1	40.7912	-79.3658	123.100	0.000
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	NEIPA17369	1	40.6377	-79.3572	55.300	---
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	NEIPARCC135	2	40.7772	-79.5294	424.000	0.190
Armstrong	EQUITABLE GAS CO/FISHER STATION	NEIPA00590-4	1	41.0639	-79.2334	13.100	0.009
Armstrong	EQUITABLE GAS CO/SHOEMAKER	NEIPA00590-5	1	40.7555	-79.5500	4.700	0.020
Armstrong	EQUITABLE GAS CO/VILLAGE STATION	NEIPA00590-6	1	40.7850	-79.3408	43.900	0.003
Armstrong	EQUITRANS INC/ATWOOD BOOSTER STA 16	NEIPA00575-1	1	40.7573	-79.2692	25.600	0.003
Armstrong	EQUITRANS INC/CROOKED CREEK COMPRESSOR STA 4	NEIPA00575-2	1	40.7173	-79.5319	65.100	0.011
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	NEIPA25-0491	1	40.6837	-79.6894	3.260	9.040
Armstrong	International Chimney Corp	NEIPARBSCP17	1	40.8167	-79.4833	---	24.342
Armstrong	KITTANNING BRICK CO/REESEDALE	NEIPA25-1586	1	41.0139	-79.5334	1.770	1.205
Armstrong	NATL FUEL GAS SUPPLY/KAYLOR STA	NEIPA00505-1	1	40.9444	-79.6167	27.400	0.030
Armstrong	NATURES BLEND WOOD PROD/FORD CITY	NEIPAT$1660	1	40.7749	-79.5304	0.073	0.000
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	NEI8179	1	40.6602	-79.3418	18243.170	150640.430
Armstrong	VISTA METALS/KITTANNING PLT	NEIPA00568-1	1	40.8126	-79.5559	0.100	---
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGEN	NEIPA5402	2	40.6538	-80.3559	3336.080	3645.020
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	NEIPA00771-1	1	40.6899	-80.2814	102.792	9.279
Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	NEI115	2	40.7541	-80.3243	12.500	0.070
Beaver	BASF CORP/MONACA PLT	NEIPA34-0434	2	40.6605	-80.3458	4.500	---
Beaver	CENTRIA/CENTRIA	NEIPAT$1420	2	40.7222	-80.2001	8.180	0.040
Beaver	CUTLER HAMMER/BEAVER	NEIPA25-0877	2	40.6931	-80.3207	6.010	0.030
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	NEIPA00736-2	1	40.8103	-80.4294	14.300	224.500
Beaver	DOMINION TRANS INC/BEAVER	NEIPA00755-0	1	40.7722	-80.2499	132.400	0.173
Beaver	HORSEHEAD CORP/MONACA SMELTER	NEI40661	2	40.6706	-80.3365	1702.300	7057.100
Beaver	JEWEL ACQUISITION/MIDLAND FAC	NEI5361	3	40.6387	-80.4610	523.618	17.772
Beaver	KOPPEL STEEL CORP/AMBRIDGE	NEIPA00733-4	2	40.8360	-80.3185	52.460	0.203
Beaver	KOPPEL STEEL CORP/KOPPEL	NEI6981	3	40.8356	-80.3184	20.790	28.030
Beaver	NGC IND/SHIPPINGPORT	NEI2PA070167	2	40.6250	-80.4167	9.350	---
Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	NEIPA00753-6	1	40.6594	-80.2548	3.944	0.008
Beaver	NOVA CHEM CO/BEAVER	NEIPAT$1454	1	40.6538	-80.3559	6.459	0.035

County	Facility Name	Device ID	Stack ID	Lat	Lon	NOX (TPY)	SO2 (TPY)
Beaver	PA POWER CO/BRUCE MANSFIELD PLT	NEI65	1	40.6344	-80.4200	29868.600	30312.500
Beaver	SCA PKG NORTH AMERICA /NEW BRIGHTON FAC	NEIPAT$1460	2	40.7398	-80.3036	0.910	0.020
Beaver	US GYPSUM CO/ALIQUIPPA	NEI2PA070165	2	40.5892	-80.4819	68.460	0.718
Beaver	WHEMCO FOUNDRY/MIDLAND	NEI1958	2	40.6309	-80.4448	15.120	0.642
Beaver	Wienerberger Group (General Shale)	NEIPA36-2608	1	40.8026	-80.4414	---	90.335
Butler	AK STEEL CORP/BUTLER WORKS	NEI7060	2	40.8293	-79.9427	476.486	30.292
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	NEIPA01993-1	2	40.7948	-79.7002	693.730	1114.000
Butler	BASF EVANS CITY OPS	NEI2PA190615	1	40.8500	-80.0001	4.520	0.030
Butler	BNZ MATERIALS INC/ZELIENOPLE	NEIPA01914-1	1	40.7920	-80.1490	16.220	---
Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	NEIPA01925-1	1	40.8669	-79.8752	6.610	0.007
Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	NEIPA25-1645	1	40.8721	-79.8394	3.848	0.023
Butler	CROMPTON CORP/PETROLIA	NEIPA13-1870	1	41.0126	-79.7178	155.154	73.107
Butler	CUE INC/CRANBERRY TWP PLT	NEI57013	2	40.7097	-80.1028	0.600	---
Butler	FB LEOPOLD CO/ZELIENOPLE	NEIPAT$1617	1	40.7872	-80.1449	0.386	0.002
Butler	INDSPEC CHEM CORP/PETROLIA	NEI40666	1	41.0183	-79.7170	87.164	37.102
Butler	NAPCO INC/VALENCIA	NEI7061	2	40.7245	-79.9325	10.109	0.061
Butler	PENRECO/KARNS CITY	NEI88	2	40.9961	-79.7251	223.000	571.954
Butler	PURVIS BROS INC/MARS	NEI2PA191007	2	40.6885	-80.0057	0.013	0.004
Butler	RESOLITE STABILIT AMER/ZELIENOPLE	NEI7063	1	40.8805	-80.1334	0.370	0.002
Butler	SENECA LANDFILL INC/SENECA	NEIPA01990-1	1	40.8119	-80.0786	6.200	2.100
Butler	THREE RIVERS ALUM CO/TRACO	NEI6989	2	40.7034	-80.1122	6.200	0.043
Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS POWER STA	NEI2PA510119	1	39.7475	-79.8388	23.300	---
Fayette	ANCHOR GLASS CONTAINER/PLT 5	NEIPAT$1529	1	39.9883	-79.5894	433.504	258.788
Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILLE	NEIPA05123-1	1	39.9836	-79.5777	4.731	0.023
Fayette	DOMINION TRANS INC/NORTH SUMMIT	NEIPA05155-0	1	39.8542	-79.6754	35.550	0.025
Fayette	ONYX CHESTNUT VALLEY LANDFILL INC/J & L LANDFILL	NEIPALF7835	2	39.8961	-79.8011	12.800	1.220
Fayette	TEXAS EASTERN TRANS /UNIONTOWN	NEIPA4205100	1	39.9343	-79.6717	30.000	0.548
Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FERRY POWER STA	NEI8227	1	39.8555	-79.9268	23064.700	158712.500
Greene	CARNEGIE INTERSTATE /HOLLY HILL EXTRACTION PLT	NEI2PA590012	1	39.8929	-80.1579	0.695	---
Greene	CARNEGIE INTERSTATE /WAYNESBURG COMPRESSOR STATION	NEIPA05968-1	1	39.8916	-80.1834	3.893	---
Greene	CONSOL COAL CO/ROBENA PREP PLT	NEIPA05994-2	1	39.8388	-79.9338	4.300	---
Greene	CONSOL PA COAL CO/BAILEY PREP PLT	NEIPA05986-1	1	39.9729	-80.4121	445.800	793.500
Greene	DOMINION TRANS INC/CRAYNE STA	NEIPA05955-0	1	39.9000	-80.1500	17.400	---
Greene	EQUITRANS INC/PRATT 47	NEIPA05975-5	1	39.9077	-80.1455	46.340	---
Greene	EQUITRANS INC/ROGERSVILLE COMP STA	NEIPA05975-4	1	39.9083	-80.3167	0.035	---
Greene	KYOWA AMER CORP/WAYNESBURG PLT	NEIPA05915-1	1	39.9166	-80.1834	1.700	0.010
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	NEIPA0590-10	1	39.8902	-80.4522	219.790	0.820
Greene	TEXAS EASTERN TRANS /WAYNESBURG STA	NEIPA0590-24	1	39.9195	-80.1250	4.180	0.120
Indiana	HOMER CITY OL/HOMER CITY GEN STA	NEI8173	1	40.5136	-79.1968	25169.400	105784.400
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	NEI46744	3	40.8783	-80.3247	1142.400	2609.902
Lawrence	DUNBAR ASPHALT PROD INC/MAHONING TWP	NEI2PA730034	1	41.0194	-80.5008	0.820	6.020

County	Facility Name	Device ID	Stack ID	Lat	Lon	NOX (TPY)	SO2 (TPY)
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	NEIPA07325-0	1	40.8607	-80.2938	23.000	0.100
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT	NEIPAT$1620	3	40.9906	-80.3497	29.680	40.550
Lawrence	ESSROC/BESSEMER	NEIPAT$1626	2	40.9745	-80.4901	2254.500	592.587
Lawrence	FLOWLINE DIV MARKOVI/NEW CASTLE	NEI7068	2	41.0167	-80.4166	2.840	0.004
Lawrence	INMETCO/ELLWOOD CITY	NEI730	2	40.8577	-80.2763	56.650	8.130
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	NEIPA07323-2	1	40.9912	-80.3527	8.300	0.100
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	NEI8180	1	40.9380	-80.3679	3506.373	25551.022
Lawrence	US CAN CO/NEW CASTLE PLANT	NEI40698	2	40.9812	-80.3042	2.480	---
Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POWER STA	NEI8233	1	40.2213	-79.9688	2276.400	1164.240
Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORKS	NEIPA25-1364	2	40.2581	-80.2039	5.400	0.127
Washington	ALLEGHENY LUDLUM COR/WASHINGTON FLATROLL	NEIPAT$1515	1	40.1856	-80.2717	2.100	0.100
Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRESSOR STA	NEIPA12531-0	1	40.2695	-80.4334	23.200	0.025
Washington	DOMINION PEOPLES/GIBSON STA	NEIPA4212500	1	40.1442	-79.9639	23.600	---
Washington	DYNO NOBEL INC/DONORA	NEIPA12516-0	1	40.1870	-79.8549	234.400	---
Washington	EQUITRANS INC/HARTSON	NEIPA12575-6	1	40.3000	-79.9667	41.160	---
Washington	FALCON PLASTICS/WASHINGTON	NEIPA25-1810	1	40.3223	-80.2167	0.580	0.002
Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	NEI6986	1	40.1808	-79.9255	11.900	6.000
Washington	JESSOP STEEL CO/WASHINGTON	NEIPA25-0575	2	40.1731	-80.2744	50.000	7.025
Washington	LANGELOTH METALLURGICAL/LANGELOTH	NEIPAT$1448	2	40.3635	-80.4010	2.400	32.700
Washington	ORION POWER MIDWEST/ELRAMA	NEI8126	1	40.2531	-79.9182	8080.100	5395.200
Washington	PA DPW/WESTERN STATE SCH & HOSP	NEIPA12525-7	1	40.2767	-80.1684	1.320	0.006
Washington	PA TRANSFORMER TECH /CANONSBURG	NEIPA31-1226	1	40.2691	-80.1703	5.017	0.030
Washington	THERM O ROCK INC/NEW EAGLE PLT	NEIPA12551-1	1	40.2065	-79.9425	2.503	0.015
Washington	UNION ELEC STEEL CORP/HARMON CREEK	NEIPA25-0847	1	40.3990	-80.4063	62.790	1.190
Washington	USA WASTE SVC INC/USA SOUTH HILLS LDFL INC	NEIPALF10154	1	40.2700	-79.9885	8.650	---
Washington	WHEELING PGH STEEL/ALLENPORT	NEI40734	1	40.0882	-79.8423	35.200	0.260
Washington	WILLIAM H MARTIN INC/ARDEN LDFL	NEIPALF514	1	40.2084	-80.2648	0.090	---
Washington	WORLD KITCHEN INC/CHARLEROI	NEIPA12516-1	2	40.1384	-79.8957	91.000	10.500
Westmoreland	ALCOA INC/UPPER BURREL	NEI6987	1	40.5548	-79.6547	13.220	0.079
Westmoreland	ALLEGHENY FOUNDRY CO/BOLIVAR	NEIPA12990-1	1	40.3999	-79.1506	0.086	1.070
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	NEI40735	2	40.6667	-79.5834	189.683	0.302
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	NEIPA12994-1	2	40.6401	-79.6112	75.064	0.352
Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	NEIPA95-2316	2	40.3265	-79.3733	14.400	0.893
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT PLT	NEIPAT$1537	2	40.1908	-79.5762	582.905	0.897
Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	NEIPA25-1530	2	40.3277	-79.3585	3.694	0.015
Westmoreland	CK COMPOSITES INC/MT PLEASANT	NEI2PA290070	1	40.1299	-79.5341	0.637	0.004
Westmoreland	COLUMBIA GAS TRANS C/DELMONT COMPRESSOR STA	NEIPA12931-0	1	40.3871	-79.5638	0.643	0.001
Westmoreland	DOMINION PEOPLES/LATROBE STATION	NEI2PA290323	1	40.3073	-79.4371	34.900	0.007
Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	NEIPA12955-0	1	40.3004	-79.6193	23.200	0.008
Westmoreland	DOMINION TRANS INC/OAKFORD STA	NEIPA17462	1	40.4029	-79.5590	604.398	0.189
Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	NEIPA1293-18	1	40.3844	-79.5480	239.553	0.076

County	Facility Name	Device ID	Stack ID	Lat	Lon	NOX (TPY)	SO2 (TPY)
Westmoreland	DOMINION TRANS INC/TONKIN STA	NEIPA1293-63	1	40.4624	-79.6365	45.221	0.041
Westmoreland	DURA BOND IND INC/EXPORT STEEL PLT	NEI7012	1	40.4264	-79.6275	0.520	---
Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	NEIPAT$1561	2	40.0991	-79.5863	3.403	0.043
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	NEIPAT$1546	1	40.3363	-79.6108	15.660	0.116
Westmoreland	EQUITRANS INC/SLEEPY HOLLOW COMPRESSOR STATN	NEIPA1295-10	1	40.3634	-79.5426	0.310	0.000
Westmoreland	FC MEYER PKG PLT	NEIPA12900-1	1	40.3261	-79.6110	0.250	---
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	NEIPALF336	2	40.1252	-79.5858	29.150	4.260
Westmoreland	HUNTINGTON FOAM PITT/MT PLEASANT	NEI2PA129129	1	40.1488	-79.6029	1.288	0.008
Westmoreland	HYDRO CARBIDE INC/LATROBE	NEI2PA290426	1	40.2843	-79.3696	0.183	---
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	NEI6985	5	40.1617	-79.8986	536.680	409.750
Westmoreland	LATROBE AREA HOSP/LATROBE	NEIPA17519	1	40.3218	-79.3922	5.380	0.032
Westmoreland	LATROBE BREWING CO/LATROBE	NEIPA12952-1	1	40.3208	-79.3887	2.641	0.049
Westmoreland	NATL ROLL CO/AVONMORE	NEIPAT$1538	2	40.5311	-79.4692	16.376	0.855
Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	NEIPA12934-1	1	40.3235	-79.6185	2.822	0.017
Westmoreland	PA DPW/TORRANCE STATE HOSP	NEIPA12923-6	1	40.3978	-79.2586	34.310	123.598
Westmoreland	POLY HI SOLIDUR INC/DELMONT PLT	NEIPA39-1864	1	40.4251	-79.5735	4.117	0.025
Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	NEIPART$1556	2	40.1627	-79.6636	1.992	0.012
Westmoreland	SONY CHEM CORP OF AM/PGH MFG CTR	NEIPA22-287A	2	40.1868	-79.5745	3.300	---
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	NEIPA22-2878	1	40.1868	-79.5769	20.684	0.175
Westmoreland	ST GEORGE CRYSTAL LTD/JEANNETTE	NEIPA12925-1	1	40.3281	-79.6039	20.900	16.381
Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	NEIPA12926-1	1	40.2948	-79.3964	9.747	21.843
Westmoreland	STD STEEL/LATROBE	NEI40737	2	40.3076	-79.3806	33.199	1.049
Westmoreland	SUMMERILL TUBE CORP/SCOTTDALE PLT	NEIPA23-2947	2	40.1072	-79.5841	0.468	0.003
Westmoreland	SUNOCO PARTNERS M&T/DELMONT FACILITY	NEIPAT$1539	2	40.4287	-79.5743	0.070	2.480
Westmoreland	TEXAS EASTERN TRANS /DELMONT	NEIPA12972-0	1	40.4150	-79.5319	213.330	2.179
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	NEIPA25-0610	3	40.3036	-79.3705	85.003	33.700
Westmoreland	USA VALLEY FAC INC/VALLEY LDFL	NEIPA86199-1	1	40.3882	-79.6743	1.970	---
Westmoreland	WESTMORELAND WASTE LLC/SANITARY LDFL	NEIPALF338	2	40.1435	-79.8566	2.510	0.023
Westmoreland	ZEUS ALUM PROD/LATROBE PLT	NEIPA25-1717	2	40.3028	-79.3903	---	0.002

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	ALLEGHENY ASPHALT MFG. INC.	1	1	40.4310	79.9770	26.0	4.0	351.0	5.00	1.00
Allegheny	ALLEGHENY ASPHALT MFG. INC.	9	9999	40.4340	79.9760	0.0	0.0	72.0	3.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	11B	14	40.4990	80.2560	0.0	0.0	150.0	1.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B03	6	40.4970	80.2300	25.0	2.0	150.0	1.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B11	1	40.4970	80.2550	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B12	2	40.4970	80.2550	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B13	3	40.4970	80.2550	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B14	4	40.4970	80.2550	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	12	10	40.4760	80.0440	300.0	8.0	110.0	5.00	17.00
Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	13	10	40.4760	80.0440	300.0	8.0	110.0	1.00	4.00
Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	19	19	40.4760	80.0430	80.0	3.0	800.0	1.00	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	1	1	40.5441	-79.7672	75.0	9.0	816.0	6.41	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	1	1	40.5440	79.7670	75.0	9.0	816.0	13.00	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	2	1	40.5441	-79.7672	75.0	9.0	816.0	6.68	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	3	2	40.5440	79.7670	75.0	9.0	816.0	13.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	2	2	40.6180	79.7170	92.0	4.0	200.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	4	3	40.6180	79.7170	92.0	4.0	200.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	7	1	40.6180	79.7170	149.0	10.0	140.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	8	9999	40.6170	79.7290	0.0	0.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	9	9999	40.6170	79.7290	0.0	0.0	72.0	5.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	10	9999	40.6170	79.7290	0.0	0.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	11	9999	40.6170	79.7290	0.0	0.0	72.0	2.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	12	51	40.6090	79.7270	84.0	17.0	200.0	19.00	3.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	13	52	40.6090	79.7270	84.0	17.0	200.0	19.00	3.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	15	53	40.6090	79.7270	75.0	14.0	200.0	11.00	2.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	16	54	40.6090	79.7270	75.0	14.0	200.0	11.00	2.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	18	49	40.6180	79.7180	75.0	10.0	200.0	34.00	28.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	19	9999	40.6170	79.7290	0.0	0.0	72.0	5.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	20	9999	40.6170	79.7290	0.0	0.0	72.0	4.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	21	9999	40.6170	79.7290	0.0	0.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	22	9999	40.6170	79.7290	0.0	0.0	72.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	23	9999	40.6170	79.7290	0.0	0.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	24	9999	40.6170	79.7290	0.0	0.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	25	9999	40.6170	79.7290	0.0	0.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	27	9999	40.6170	79.7290	0.0	0.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	16	40.6060	79.7320	125.0	4.0	1000.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	17	40.6050	79.7330	125.0	6.0	1000.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	18	40.6050	79.7330	125.0	6.0	1000.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	19	40.6050	79.7330	125.0	6.0	1000.0	5.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	22	40.6060	79.7290	125.0	6.0	1000.0	2.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	29	20	40.6060	79.7310	125.0	4.0	1000.0	2.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	29	21	40.6060	79.7310	125.0	6.0	1000.0	2.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	30	23	40.6060	79.7310	125.0	8.0	1000.0	61.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	31	24	40.6060	79.7320	125.0	5.0	1000.0	29.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	36	9999	40.6170	79.7290	0.0	0.0	72.0	14.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	37	9999	40.6170	79.7290	0.0	0.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	39	9999	40.6170	79.7290	0.0	0.0	72.0	15.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	40	9999	40.6170	79.7290	0.0	0.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	41	9999	40.6170	79.7290	0.0	0.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	45	9999	40.6170	79.7290	0.0	0.0	72.0	43.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	46	59	40.6080	79.7320	8.0	6.0	2050.0	7.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	47	9999	40.6170	79.7290	0.0	0.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	54	39	40.6070	79.7390	20.0	7.0	350.0	10.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	55	9999	40.6170	79.7290	0.0	0.0	72.0	4.00	0.00
Allegheny	ALLEGHENY VALLEY HOSPITAL	7	2	40.6190	79.7380	30.0	2.0	410.0	2.00	6.00
Allegheny	AMERICAN BRIDGE MANUFACTURING	F01	9999	40.5250	80.1720	0.0	0.0	72.0	2.00	0.00
Allegheny	AMG RESOURCES CORPORATION	5	9999	40.5100	80.1170	0.0	0.0	72.0	1.00	0.00
Allegheny	ARROW CONCRETE COMPANY	11	4	40.4310	79.9960	57.0	1.0	500.0	3.00	0.00
Allegheny	ARROW CONCRETE COMPANY	13	9999	40.4310	79.9960	0.0	0.0	72.0	2.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	2	7	40.5000	80.0830	110.0	4.0	1450.0	15.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	3	8	40.4960	80.0800	39.0	2.0	515.0	31.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	4	9	40.4960	80.0800	39.0	2.0	514.0	1.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	5	10	40.5000	80.0830	28.0	2.0	500.0	2.00	0.00
Allegheny	BAKE- LINE GROUP LLC	B1G	20	40.4570	79.9160	141.0	7.0	450.0	2.00	0.00
Allegheny	BAKE- LINE GROUP LLC	B2G	20	40.4570	79.9160	141.0	7.0	450.0	2.00	0.00
Allegheny	BAKERSTOWN CONTAINER CORPORATION	P06	9	40.6540	79.9360	34.0	12.0	290.0	1.00	0.00
Allegheny	BARBER SPRING	1	1	40.4840	79.9560	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	1	1	40.4840	79.9560	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	2	2	40.4840	79.9560	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	3	3	40.4840	79.9560	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	32	9999	40.4840	79.9560	0.0	0.0	72.0	1.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	1	1	40.4560	79.9490	194.0	9.0	558.0	36.00	232.00
Allegheny	BELLEFIELD BOILER PLANT	2	1	40.4560	79.9490	194.0	9.0	558.0	13.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	3	1	40.4560	79.9490	194.0	9.0	558.0	7.00	24.00
Allegheny	BELLEFIELD BOILER PLANT	4	2	40.4420	79.9490	256.0	11.0	309.0	61.00	242.00
Allegheny	BELLEFIELD BOILER PLANT	5	2	40.4420	79.9490	256.0	11.0	309.0	12.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	8	2	40.4420	79.9490	256.0	11.0	309.0	35.00	229.00
Allegheny	BELLEFIELD BOILER PLANT	9	2	40.4420	79.9490	256.0	11.0	309.0	11.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	10	2	40.4420	79.9490	256.0	11.0	309.0	26.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	12	2	40.4420	79.9490	256.0	11.0	309.0	3.00	0.00
Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	3	4	40.3950	80.1790	40.0	0.0	680.0	1.00	0.00
Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	3	5	40.3950	80.1790	25.0	1.0	680.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	BETTIS ATOMIC POWER LABORATORY	B3G	3	40.3620	79.8990	29.0	2.0	338.0	1.00	0.00
Allegheny	BETTIS ATOMIC POWER LABORATORY	RV1	9999	40.3620	79.8990	0.0	0.0	72.0	1.00	0.00
Allegheny	BETTIS ATOMIC POWER LABORATORY	SCG	9999	40.3620	79.8990	0.0	0.0	72.0	3.00	0.00
Allegheny	BETTIS ATOMIC POWER LABORATORY	VHG	5	40.3600	79.8990	69.0	5.0	700.0	1.00	0.00
Allegheny	BFI - IMPERIAL LANDFILL	1	1	40.4480	80.2750	60.0	12.0	1600.0	14.00	7.00
Allegheny	BFI - IMPERIAL LANDFILL	8	9999	40.4480	80.2750	0.0	0.0	72.0	48.00	13.00
Allegheny	BOX USA	4	2	40.4960	79.9110	148.0	8.0	325.0	2.00	0.00
Allegheny	BRADDOCK RECOVERY, INC.	2	1	40.3910	79.8520	39.0	3.0	201.0	2.00	1.00
Allegheny	BUCKEYE CORAOPOLIS PIPELINE FACILITY	3	9999	40.5260	80.1810	0.0	0.0	72.0	4.00	0.00
Allegheny	CALGON CARBON CORPORATION	1	1	40.4940	80.0780	79.0	4.0	425.0	4.00	0.00
Allegheny	CALGON CARBON CORPORATION	2	4	40.4940	80.0800	50.0	2.0	250.0	1.00	0.00
Allegheny	CALGON CARBON CORPORATION	5	13	40.4940	80.0780	62.0	3.0	1929.0	0.00	3.00
Allegheny	CALGON CARBON CORPORATION	8	19	40.4940	80.0800	72.0	3.0	163.0	2.00	0.00
Allegheny	CARGILL, INC. - SALT DIVISION	2	9999	40.4840	80.0620	0.0	0.0	72.0	1.00	0.00
Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	1	1	40.3050	79.9760	151.0	7.0	350.0	20.00	78.00
Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	8	9999	40.3060	79.9770	0.0	0.0	72.0	1.00	0.00
Allegheny	CHAMBERS DEVELOPMENT CO., INC.	1	1	40.4070	79.7940	30.0	11.0	1650.0	13.00	3.00
Allegheny	CHAMBERS DEVELOPMENT CO., INC.	8	9999	40.4070	79.7940	0.0	0.0	72.0	35.00	10.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	1	1	40.4500	79.9670	65.0	4.0	314.0	2.00	0.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	2	1	40.4500	79.9670	65.0	4.0	314.0	2.00	0.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	3	1	40.4500	79.9670	65.0	4.0	314.0	2.00	0.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	4	1	40.4500	79.9670	65.0	4.0	314.0	2.00	0.00
Allegheny	CLAIRTON SLAG, INC.	1	1	40.2700	79.8980	16.0	5.0	250.0	1.00	0.00
Allegheny	CLAIRTON SLAG, INC.	1	1	40.2700	79.8980	16.0	5.0	250.0	0.00	2.00
Allegheny	CLAIRTON SLAG, INC.	16	9999	40.2700	79.8980	0.0	0.0	72.0	15.00	1.00
Allegheny	CP INDUSTRIES	P05	5	40.3350	79.8530	0.0	0.0	1600.0	1.00	0.00
Allegheny	CREIGHTON STATION	2	2	40.5830	79.7780	20.0	2.0	600.0	1.00	0.00
Allegheny	DICE COMPRESSOR STATION	0.00E+00	1	40.4620	79.7040	15.0	1.0	420.0	6.00	0.00
Allegheny	DICE COMPRESSOR STATION	0.00E+00	2	40.4620	79.7040	15.0	1.0	420.0	6.00	0.00
Allegheny	DICE COMPRESSOR STATION	0.00E+00	3	40.4620	79.7040	15.0	1.0	420.0	9.00	0.00
Allegheny	DLM FOODS	1	1	40.4550	79.9900	249.0	10.0	390.0	69.00	210.00
Allegheny	DLM FOODS	2	1	40.4550	79.9900	249.0	10.0	390.0	2.00	0.00
Allegheny	DLM FOODS	3	1	40.4550	79.9900	249.0	10.0	390.0	66.00	202.00
Allegheny	DLM FOODS	5	2	40.4560	79.9890	249.0	10.0	250.0	49.00	123.00
Allegheny	DLM FOODS	6	2	40.4560	79.9890	249.0	10.0	250.0	1.00	0.00
Allegheny	DLM FOODS	7	2	40.4560	79.9890	249.0	10.0	250.0	39.00	98.00
Allegheny	DLM FOODS	8	2	40.4560	79.9890	249.0	10.0	250.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	7	9999	40.4360	79.9930	0.0	0.0	72.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	8	9999	40.4360	79.9930	0.0	0.0	72.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	B01	1	40.4360	79.9930	82.0	6.0	360.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	B02	2	40.4360	79.9930	82.0	6.0	360.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	DUQUESNE UNIVERSITY	B03	3	40.4360	79.9930	82.0	6.0	360.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	T05	5	40.4360	79.9930	152.0	4.0	350.0	21.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	8	143	40.2640	79.9050	46.0	2.0	667.0	2.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	9	143	40.2640	79.9050	46.0	2.0	667.0	9.00	2.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	10	144	40.2640	79.9050	72.0	3.0	446.0	1.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	11	144	40.2640	79.9050	72.0	3.0	446.0	13.00	3.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	15	56	40.2640	79.9050	20.0	1.0	650.0	3.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	19	106	40.2640	79.9050	20.0	1.0	1000.0	2.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	19	107	40.2640	79.9050	20.0	1.0	650.0	1.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	24	9999	40.2640	79.9050	0.0	0.0	72.0	3.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	26	292	40.2640	79.9050	25.0	2.0	650.0	2.00	0.00
Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	1	1	40.5170	79.8700	20.0	7.0	500.0	1.00	0.00
Allegheny	GALVTECH	1	1	40.3930	79.9330	75.0	5.0	500.0	26.00	0.00
Allegheny	GALVTECH	1	1	40.3930	79.9330	75.0	5.0	500.0	9.00	0.00
Allegheny	GALVTECH	1	3	40.3920	79.9330	60.0	0.0	200.0	1.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	3	9999	40.3660	80.0970	0.0	0.0	72.0	106.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	4	503	40.3660	80.1030	0.0	0.0	0.0	1.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	7	506	40.3660	80.1030	0.0	0.0	0.0	2.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	8	507	40.3660	80.1030	0.0	0.0	0.0	87.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	9	9999	40.3660	80.0970	0.0	0.0	72.0	1.00	0.00
Allegheny	GENERAL MOTORS PITTSBURGH PLANT	2	2	40.3440	79.9040	46.0	2.0	437.0	2.00	0.00
Allegheny	GENERAL MOTORS PITTSBURGH PLANT	5	5	40.3440	79.9030	20.0	1.0	250.0	3.00	1.00
Allegheny	GENERAL MOTORS PITTSBURGH PLANT	17	9999	40.3360	79.9020	0.0	0.0	72.0	1.00	0.00
Allegheny	GENERIC UNIT	GGT42	41	40.4358	-80.0271	62.0	10.0	585.0	2.66	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	B01	9999	40.5210	79.9520	0.0	0.0	72.0	4.00	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P01	1	40.5210	79.9520	135.0	5.0	1087.0	92.00	72.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P02	2	40.5210	79.9520	135.0	5.0	1087.0	110.00	30.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P04	4	40.5210	79.9520	64.0	5.0	427.0	76.00	28.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P13	9	40.5210	79.9510	0.0	0.0	0.0	1.00	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P14	10	40.5210	79.9520	0.0	0.0	0.0	1.00	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P16	12	40.5210	79.9510	0.0	0.0	0.0	1.00	0.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	2	1	40.2550	79.9160	82.0	9.0	504.0	287.00	31.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	2	2	40.2550	79.9160	100.0	7.0	539.0	1000.00	78.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	4	9999	40.2550	79.9160	0.0	0.0	72.0	1.00	0.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	6	9999	40.2550	79.9160	0.0	0.0	72.0	0.00	6.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	12	9999	40.2550	79.9160	0.0	0.0	72.0	2.00	0.00
Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	21	9999	40.4430	79.9590	0.0	0.0	72.0	2.00	0.00
Allegheny	HEIGHTS PLAZA MATERIALS, INC	5	9999	40.4430	79.9590	0.0	0.0	72.0	1.00	0.00
Allegheny	HEIGHTS PLAZA MATERIALS, INC	6	9999	40.4430	79.9590	0.0	0.0	72.0	6.00	0.00
Allegheny	HUSSEY COPPER LTD.	1	1	40.5730	80.2230	45.0	7.0	276.0	10.00	0.00
Allegheny	HUSSEY COPPER LTD.	6	5	40.5720	80.2210	45.0	1.0	900.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	HUSSEY COPPER LTD.	7	6	40.5730	80.2210	60.0	1.0	800.0	1.00	0.00
Allegheny	HUSSEY COPPER LTD.	8	7	40.5740	80.2230	12.0	3.0	1500.0	5.00	0.00
Allegheny	HUSSEY COPPER LTD.	28	9999	40.5730	80.2230	0.0	0.0	72.0	2.00	0.00
Allegheny	IA CONSTRUCTION GIBSONIA	1	1	40.6210	79.8750	35.0	4.0	300.0	1.00	0.00
Allegheny	IA CONSTRUCTION GIBSONIA	2	2	40.6210	79.8750	12.0	2.0	400.0	0.00	1.00
Allegheny	IA CONSTRUCTION GIBSONIA	9	9999	40.6210	79.8750	0.0	0.0	72.0	1.00	0.00
Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	1	1	40.3170	80.0770	96.0	11.0	500.0	2.00	0.00
Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	1	1	40.3170	80.0770	96.0	11.0	500.0	1.00	0.00
Allegheny	KELLY RUN SANITATION	1	9999	40.2530	79.8710	0.0	0.0	72.0	10.00	1.00
Allegheny	KELLY RUN SANITATION	5	2	40.2500	79.8820	31.0	7.0	1630.0	5.00	0.00
Allegheny	KINDER MORGAN INDIANOLA PLANT	104	2	40.5710	79.8640	10.0	1.0	601.0	6.00	0.00
Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	1	1	40.3540	79.8800	12.0	3.0	1600.0	1.00	0.00
Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	1	1	40.3540	79.8800	12.0	3.0	1600.0	6.00	4.00
Allegheny	LOZIER CORPORATION	2	9999	40.3770	0.0080	0.0	0.0	72.0	1.00	0.00
Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	1	1	40.3500	79.8840	16.0	3.0	225.0	1.00	0.00
Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	3	3	40.3520	79.8810	14.0	1.0	500.0	2.00	1.00
Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	4	9999	40.3520	79.8810	0.0	0.0	72.0	1.00	0.00
Allegheny	MAYVIEW STATE HOSPITAL	12	1	40.3250	80.1080	69.0	5.0	450.0	4.00	0.00
Allegheny	MAYVIEW STATE HOSPITAL	12	2	40.3250	80.1080	69.0	5.0	450.0	2.00	0.00
Allegheny	MAYVIEW STATE HOSPITAL	12	2	40.3250	80.1080	69.0	5.0	450.0	2.00	0.00
Allegheny	MCCONWAY & TORLEY CORPORATION	1	10	40.4780	79.9650	28.0	5.0	275.0	2.00	2.00
Allegheny	MCCONWAY & TORLEY CORPORATION	5	9999	40.4780	79.9640	0.0	0.0	72.0	4.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	1	3	40.4780	80.0610	80.0	4.0	400.0	3.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	1	9999	40.4760	80.0610	0.0	0.0	72.0	2.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	1	9999	40.4760	80.0610	0.0	0.0	72.0	1.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	2	1	40.4770	80.0600	20.0	5.0	700.0	3.00	0.00
Allegheny	MERCY HOSPITAL OF PITTSBURGH	1	1	40.4360	79.9860	96.0	4.0	250.0	2.00	0.00
Allegheny	MERCY HOSPITAL OF PITTSBURGH	7	9999	40.4360	79.9860	0.0	0.0	72.0	3.00	0.00
Allegheny	MERCY HOSPITAL OF PITTSBURGH	8	9999	40.4360	79.9860	0.0	0.0	72.0	2.00	0.00
Allegheny	METALTECH	1	1	40.4360	79.9700	66.0	4.0	350.0	8.00	0.00
Allegheny	METALTECH	1	1	40.4360	79.9700	66.0	4.0	350.0	8.00	0.00
Allegheny	METALTECH	1	3	40.4370	79.9700	5.0	1.0	200.0	1.00	0.00
Allegheny	MOTIVA ENTERPRISES LLC	22	9999	40.5280	80.1820	0.0	0.0	72.0	3.00	0.00
Allegheny	MT. LEBANON HIGH SCHOOL	1	1	40.3760	80.0510	60.0	3.0	250.0	1.00	0.00
Allegheny	MT. LEBANON HIGH SCHOOL	1	1	40.3760	80.0510	60.0	3.0	250.0	1.00	0.00
Allegheny	MT. LEBANON HIGH SCHOOL	1	1	40.3760	80.0510	60.0	3.0	250.0	1.00	0.00
Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	B01	3	40.2790	79.8770	25.0	1.0	550.0	1.00	0.00
Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	1	1	40.3060	79.9780	79.0	1.0	280.0	1.00	5.00
Allegheny	NEVILLE CHEMICAL COMPANY	4	4	40.5020	80.0980	58.0	4.0	620.0	2.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	12	10	40.5020	80.0980	44.0	2.0	646.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	15	12	40.5020	80.0980	27.0	3.0	641.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	NEVILLE CHEMICAL COMPANY	22	18	40.5020	80.0980	36.0	2.0	625.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	24	23	40.5020	80.0980	37.0	3.0	625.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	26	27	40.5020	80.0980	51.0	2.0	626.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	29	29	40.5020	80.0980	24.0	2.0	640.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	33	34	40.5020	80.0980	54.0	4.0	520.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	35	35	40.5020	80.0980	35.0	3.0	354.0	15.00	3.00
Allegheny	NEVILLE CHEMICAL COMPANY	37	36	40.5020	80.0980	40.0	4.0	621.0	30.00	6.00
Allegheny	NEVILLE CHEMICAL COMPANY	39	9999	40.5020	80.0980	0.0	0.0	72.0	2.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	71	16	40.5020	80.0980	23.0	2.0	620.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	72	16	40.5020	80.0980	23.0	2.0	620.0	2.00	0.00
Allegheny	NEVILLE PULVERIZED LIME	7	9999	40.5600	80.2090	0.0	0.0	72.0	1.00	0.00
Allegheny	NEXTECH	1	1	40.4030	79.8320	84.0	5.0	350.0	10.00	0.00
Allegheny	NEXTECH	1	1	40.4030	79.8320	84.0	5.0	350.0	2.00	0.00
Allegheny	NEXTECH	1	2	40.4030	79.8320	0.0	0.0	0.0	1.00	0.00
Allegheny	NRG ENERGY CENTER PITTSBURGH	1	1	40.4490	80.0060	50.0	3.0	605.0	4.00	0.00
Allegheny	NRG ENERGY CENTER PITTSBURGH	3	2	40.4490	80.0060	50.0	3.0	310.0	12.00	0.00
Allegheny	NRG ENERGY CENTER PITTSBURGH	5	3	40.4490	80.0060	50.0	4.0	535.0	28.00	0.00
Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	1	1	40.4630	80.0420	33.0	7.0	864.0	34.00	2.00
Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	4	2	40.4660	80.0440	69.0	10.0	320.0	3.00	0.00
Allegheny	ORION POWER MIDWEST, CHESWICK STATION	1	1	40.5372	-79.7911	751.0	21.0	286.0	1272.10	5300.50
Allegheny	ORION POWER MIDWEST, CHESWICK STATION	3	2	40.5370	79.7900	200.0	2.0	674.0	1.00	1.00
Allegheny	PARC TECHNICAL SERVICES, INC.	1	5	40.5460	79.8290	30.0	0.0	500.0	2.00	0.00
Allegheny	PARC TECHNICAL SERVICES, INC.	3	6	40.5460	79.8290	30.0	1.0	70.0	1.00	0.00
Allegheny	PITT PENN OIL COMPANY	F02	9999	40.5760	79.7770	0.0	0.0	68.0	1.00	0.00
Allegheny	PITTSBURGH ALLEGHENY THERMAL, LT	1	1	40.4430	80.0040	207.0	18.0	250.0	14.00	0.00
Allegheny	PITTSBURGH ALLEGHENY THERMAL, LT	3	1	40.4430	80.0040	207.0	18.0	250.0	29.00	0.00
Allegheny	PITTSBURGH ALLEGHENY THERMAL, LT	5	1	40.4430	80.0040	207.0	18.0	250.0	34.00	0.00
Allegheny	PITTSBURGH ALLEGHENY THERMAL, LT	7	1	40.4430	80.0040	207.0	18.0	250.0	14.00	0.00
Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	1	1	40.4610	79.9660	210.0	8.0	401.0	13.00	40.00
Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	3	1	40.4610	79.9660	210.0	8.0	401.0	13.00	39.00
Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	5	1	40.4610	79.9660	210.0	8.0	401.0	3.00	0.00
Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	B03	5	40.4440	79.7180	25.0	2.0	352.0	1.00	0.00
Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	B04	6	40.4440	79.7180	25.0	2.0	352.0	1.00	0.00
Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	B05	7	40.4440	79.7180	25.0	2.0	352.0	1.00	0.00
Allegheny	PPG INDUSTRIES -- PPG PLACE	EG-1	41	40.4358	-80.0271	62.0	10.0	585.0	0.03	0.00
Allegheny	PPG INDUSTRIES -- PPG PLACE	EG-2	41	40.4358	-80.0271	62.0	10.0	585.0	0.03	0.00
Allegheny	PPG INDUSTRIES -- PPG PLACE	EG-3	41	40.4358	-80.0271	62.0	10.0	585.0	0.02	0.00
Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	1	1	40.5370	79.7870	43.0	2.0	399.0	0.00	2.00
Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	05A	9999	40.5370	79.7870	0.0	0.0	72.0	3.00	0.00
Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	06A	9999	40.5370	79.7870	0.0	0.0	72.0	3.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	1	9999	40.3270	79.8430	0.0	0.0	72.0	2.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	2	14	40.3270	79.8430	45.0	5.0	1300.0	1.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	2	14	40.3270	79.8430	45.0	5.0	1300.0	2.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	2	4	40.3270	79.8430	45.0	5.0	1400.0	1.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	2	4	40.3270	79.8430	45.0	5.0	1400.0	3.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	5	9999	40.3270	79.8430	0.0	0.0	72.0	1.00	0.00
Allegheny	PRESSURE CHEMICAL COMPANY	2	4	40.4620	79.9690	0.0	0.0	70.0	1.00	0.00
Allegheny	RANBAR TECHNOLOGY INC.	1	1	40.5210	79.9480	20.0	2.0	500.0	1.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	1	9999	40.5580	79.8410	0.0	0.0	72.0	3.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	6	5	40.5580	79.8410	51.0	4.0	180.0	5.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	7	9999	40.5580	79.8410	0.0	0.0	72.0	21.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	7	9999	40.5580	79.8410	0.0	0.0	72.0	2.00	3.00
Allegheny	REICHHOLD, INC.	1	7	40.3600	80.1240	75.0	3.0	429.0	9.00	0.00
Allegheny	REICHHOLD, INC.	9	3	40.3600	80.1240	51.0	7.0	750.0	2.00	0.00
Allegheny	REICHHOLD, INC.	14	4	40.3600	80.1240	36.0	3.0	260.0	1.00	0.00
Allegheny	SHENANGO INC.	5	33	40.4970	80.0770	125.0	10.0	670.0	31.00	0.00
Allegheny	SHENANGO INC.	6	33	40.4970	80.0770	125.0	10.0	670.0	54.00	78.00
Allegheny	SHENANGO INC.	7	33	40.4970	80.0770	125.0	10.0	670.0	0.00	1.00
Allegheny	SHENANGO INC.	8	34	40.4970	80.0760	112.0	10.0	400.0	5.00	0.00
Allegheny	SHENANGO INC.	9	34	40.4970	80.0760	112.0	10.0	400.0	51.00	47.00
Allegheny	SHENANGO INC.	11	9999	40.4930	80.0770	0.0	0.0	72.0	0.00	4.00
Allegheny	SHENANGO INC.	12	4	40.4990	80.0810	250.0	9.0	603.0	291.00	115.00
Allegheny	SHENANGO INC.	14	43	40.4930	80.0800	150.0	10.0	70.0	4.00	22.00
Allegheny	SHENANGO INC.	16	17	40.4930	80.0770	56.0	15.0	150.0	0.00	1.00
Allegheny	SHENANGO INC.	30	42	40.4930	80.0800	70.0	3.0	592.0	0.00	3.00
Allegheny	SHENANGO INC.	31	41	40.4930	80.0800	100.0	2.0	592.0	2.00	4.00
Allegheny	SHENANGO INC.	35	9999	40.4930	80.0770	0.0	0.0	72.0	15.00	1.00
Allegheny	SHENANGO -- NEVILLE ISLAND COKE WORKS	2WH	41	40.4358	-80.0271	371.0	5.5	122.0	90.89	0.00
Allegheny	SHENANGO -- NEVILLE ISLAND COKE WORKS	3GE	41	40.4358	-80.0271	371.0	5.5	122.0	114.51	0.00
Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	2	1	40.4710	80.0420	175.0	8.0	600.0	6.00	23.00
Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	4	1	40.4710	80.0420	175.0	8.0	600.0	2.00	0.00
Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	2	1	40.3730	80.1140	34.0	3.0	200.0	1.00	0.00
Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	3	1	40.3730	80.1140	34.0	3.0	200.0	23.00	23.00
Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	4	1	40.3730	80.1140	34.0	3.0	200.0	3.00	7.00
Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	1	1	40.4720	80.0490	33.0	4.0	220.0	1.00	0.00
Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	2	1	40.4720	80.0490	33.0	4.0	220.0	28.00	15.00
Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	3	1	40.4720	80.0490	33.0	4.0	220.0	0.00	9.00
Allegheny	TRUMBULL CORPORATION	8	1	40.5110	80.1380	35.0	4.0	350.0	4.00	1.00
Allegheny	TRUMBULL CORPORATION	13	9999	40.5110	80.1380	0.0	0.0	72.0	5.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	B01	3	40.4150	80.0780	30.0	3.0	70.0	1.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	P02	3	40.4150	80.0780	30.0	3.0	70.0	1.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	P03	3	40.4150	80.0780	30.0	3.0	70.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	UNION ELECTRIC STEEL CORPORATION	P04	3	40.4150	80.0780	30.0	3.0	70.0	1.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	P05	3	40.4150	80.0780	30.0	3.0	70.0	3.00	0.00
Allegheny	UNITED REFINING CO.SPRINGDALE ASPHALT T	2	1	40.5740	79.7770	23.0	2.0	435.0	1.00	0.00
Allegheny	UNITED STATES STEEL -- MON VALLEY WORKS	GEN1	41	40.3925	-79.8564	371.0	5.5	122.0	449.85	0.00
Allegheny	UNITED STATES STEEL -- MON VALLEY WORKS	GEN2	41	40.3925	-79.8564	371.0	5.5	122.0	449.85	0.00
Allegheny	UNITED STATES STEEL -- MON VALLEY WORKS	GEN3	41	40.3925	-79.8564	371.0	5.5	122.0	45.44	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	B01	1	40.5450	79.8270	151.0	4.0	400.0	2.00	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	B02	1	40.5450	79.8270	151.0	4.0	400.0	2.00	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	B03	1	40.5450	79.8270	151.0	4.0	400.0	3.00	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	B04	1	40.5450	79.8270	151.0	4.0	400.0	2.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	1	1	40.3620	80.1090	69.0	15.0	103.0	2.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	3	9999	40.3570	80.1090	0.0	0.0	72.0	1.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	11	9999	40.3570	80.1090	0.0	0.0	72.0	14.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	12	9999	40.3570	80.1090	0.0	0.0	72.0	10.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	18	9999	40.3570	80.1090	0.0	0.0	72.0	1.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	V01	9999	40.3570	80.1090	0.0	0.0	72.0	16.00	4.00
Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	B01	9999	40.4430	79.9590	0.0	0.0	72.0	4.00	0.00
Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	DG1	9999	40.4430	79.9590	0.0	0.0	72.0	1.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	1	1	40.4400	79.9620	174.0	6.0	400.0	2.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	1	1	40.4400	79.9620	174.0	6.0	400.0	2.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	1	1	40.4400	79.9620	174.0	6.0	400.0	2.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	3	2	40.4430	79.9610	189.0	3.0	590.0	1.00	1.00
Allegheny	UPMC MAGEE HOSPITAL	1	1	40.4360	79.9610	121.0	3.0	450.0	2.00	0.00
Allegheny	UPMC MAGEE HOSPITAL	3	1	40.4360	79.9610	121.0	3.0	450.0	2.00	0.00
Allegheny	UPMC MAGEE HOSPITAL	5	1	40.4360	79.9610	121.0	3.0	450.0	2.00	0.00
Allegheny	UPMC MAGEE HOSPITAL	8	2	40.4360	79.9610	0.0	0.0	0.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	1	1	40.3550	79.8500	50.0	3.0	400.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	2	2	40.3540	79.8500	50.0	3.0	375.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	4	4	40.3540	79.8500	45.0	1.0	920.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	5	5	40.3550	79.8480	50.0	0.0	300.0	6.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4550	79.9400	151.0	7.0	550.0	1.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4550	79.9400	151.0	7.0	550.0	1.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4550	79.9400	151.0	7.0	550.0	5.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4550	79.9400	151.0	7.0	550.0	2.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4550	79.9400	151.0	7.0	550.0	1.00	0.00
Allegheny	UPMC SHADYSIDE	7	9999	40.4550	79.9480	0.0	0.0	72.0	2.00	0.00
Allegheny	UPMC SOUTHSIDE	1	1	40.4270	79.9780	112.0	2.0	350.0	1.00	0.00
Allegheny	UPMC SOUTHSIDE	1	2	40.4270	79.9780	112.0	2.0	350.0	1.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	16	16	40.5040	80.2340	30.0	1.0	70.0	2.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	29	29	40.5040	80.2340	35.0	2.0	350.0	1.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	30	30	40.5040	80.2340	35.0	2.0	350.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	US AIRWAYS MAINTENANCE BASE	107	107	40.5040	80.2340	32.0	1.0	100.0	1.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	111	111	40.5040	80.2340	70.0	1.0	100.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	1	1	40.3320	79.9040	69.0	4.0	465.0	20.00	14.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	2	1	40.3320	79.9040	69.0	4.0	465.0	4.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	3	2	40.3350	79.9040	75.0	4.0	465.0	17.00	13.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	4	2	40.3350	79.9040	75.0	4.0	465.0	4.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	5	3	40.3360	79.9010	98.0	10.0	700.0	5.00	4.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	6	3	40.3360	79.9010	98.0	10.0	700.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	7	3	40.3360	79.9010	98.0	10.0	700.0	5.00	4.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	8	3	40.3360	79.9010	98.0	10.0	700.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	91	40.3380	79.9030	70.0	7.0	455.0	26.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	92	40.3380	79.9030	70.0	7.0	455.0	26.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	93	40.3380	79.9030	70.0	7.0	455.0	25.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	94	40.3380	79.9030	70.0	7.0	455.0	23.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	95	40.3380	79.9030	70.0	7.0	455.0	27.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	91	40.3380	79.9030	70.0	7.0	455.0	53.00	40.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	92	40.3380	79.9030	70.0	7.0	455.0	55.00	42.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	93	40.3380	79.9030	70.0	7.0	455.0	51.00	38.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	94	40.3380	79.9030	70.0	7.0	455.0	49.00	37.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	95	40.3380	79.9030	70.0	7.0	455.0	56.00	43.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	15	16	40.3340	79.9020	84.0	5.0	1240.0	9.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	17	19	40.3340	79.9020	88.0	5.0	1240.0	7.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	19	212	40.3360	79.9020	55.0	3.0	700.0	3.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	20	212	40.3360	79.9020	55.0	3.0	700.0	20.00	15.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	21	23	40.3330	79.9020	66.0	10.0	401.0	2.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	22	23	40.3330	79.9020	66.0	10.0	401.0	9.00	7.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	23	25	40.3380	79.9030	85.0	4.0	401.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	24	25	40.3380	79.9030	85.0	4.0	401.0	4.00	3.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	25	5	40.3360	79.9020	0.0	0.0	0.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	32	312	40.3270	79.9040	50.0	2.0	1400.0	9.00	15.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	34	9999	40.3340	79.9030	0.0	0.0	72.0	16.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	10	1	40.3930	79.8550	174.0	11.0	427.0	12.00	110.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	11	1	40.3930	79.8550	174.0	11.0	427.0	0.00	14.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	12	1	40.3930	79.8550	174.0	11.0	427.0	6.00	4.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	14	1	40.3930	79.8550	174.0	11.0	427.0	11.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	15	9999	40.3920	79.8610	0.0	0.0	72.0	3.00	25.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	16	4	40.3930	79.8570	187.0	9.0	427.0	11.00	97.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	17	4	40.3930	79.8570	187.0	9.0	427.0	1.00	22.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	18	4	40.3930	79.8570	187.0	9.0	427.0	4.00	3.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	20	4	40.3930	79.8570	187.0	9.0	427.0	9.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	21	9999	40.3920	79.8610	0.0	0.0	72.0	3.00	21.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	22	2	40.3920	79.8550	69.0	12.0	63.0	10.00	74.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	23	3	40.3930	79.8560	174.0	11.0	428.0	6.00	13.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	25	7	40.3960	79.8620	180.0	10.0	107.0	21.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	25	8	40.3960	79.8620	180.0	10.0	107.0	21.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	27	24	40.3920	79.8560	0.0	0.0	0.0	20.00	14.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	28	24	40.3920	79.8560	0.0	0.0	0.0	13.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	39	9999	40.3920	79.8610	0.0	0.0	72.0	1.00	1.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	40	9999	40.3920	79.8610	0.0	0.0	72.0	5.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	44	2	40.3920	79.8550	69.0	12.0	63.0	9.00	63.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	48	9999	40.3920	79.8610	0.0	0.0	72.0	1.00	1.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	49	9999	40.3920	79.8610	0.0	0.0	72.0	1.00	1.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	55	9999	40.3920	79.8610	0.0	0.0	72.0	8.00	0.00
Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	2	2	40.4960	79.8870	85.0	2.0	350.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	3	3	40.4960	79.8870	85.0	2.0	350.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	4	4	40.4960	79.8870	85.0	2.0	350.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	1	1	40.4750	79.8830	62.0	3.0	500.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	2	2	40.4750	79.8830	62.0	3.0	500.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	3	3	40.4750	79.8830	62.0	3.0	500.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	2	2	40.4470	79.9620	150.0	9.0	300.0	2.00	0.00
Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	3	2	40.4470	79.9620	150.0	9.0	300.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	4	2	40.4470	79.9620	150.0	9.0	300.0	1.00	0.00
Allegheny	VALLEY PROTEINS (PA), INC.	3	5	40.5060	80.1170	33.0	3.0	450.0	9.00	0.00
Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	1	1	40.4020	79.9250	60.0	0.0	70.0	2.00	0.00
Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	12	1	40.4500	79.9840	10.0	4.0	480.0	3.00	0.00
Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	12	1	40.4500	79.9840	10.0	4.0	480.0	2.00	0.00
Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	12	1	40.4500	79.9840	10.0	4.0	480.0	2.00	0.00
Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG PO	W 031	S03	40.9290	-79.4657	1008.0	14.6	344.0	1470.73	7162.54
Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG PO	W 032	S04	40.9290	-79.4657	1008.0	14.6	354.0	1384.42	7308.58
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	201	SO1	40.6456	-79.3423	57.3	11.5	733.0	111.90	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	31	S01	40.6602	-79.3418	800.0	26.9	314.0	1478.37	5682.30
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	32	S02	40.6602	-79.3418	800.0	26.9	314.0	1470.28	5582.13
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	101	S03	40.6602	-79.3418	18.0	4.0	800.0	0.37	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	102	S04	40.6602	-79.3418	18.0	4.0	800.0	0.37	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	103	S05	40.6602	-79.3418	18.0	4.0	800.0	0.37	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	104	S06	40.6602	-79.3418	18.0	4.0	800.0	0.37	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	101	SO5	40.6460	79.3420	25.0	2.0	500.0	1.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	102	SO6	40.6460	79.3420	25.0	2.0	500.0	1.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	202	SO2	40.6460	79.3420	57.0	11.0	734.0	1.00	1.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	202	SO2	40.6460	79.3420	57.0	11.0	734.0	5.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	203	SO3	40.6460	79.3420	57.0	11.0	734.0	2.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	203	SO3	40.6460	79.3420	57.0	11.0	734.0	7.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	204	SO4	40.6460	79.3420	57.0	11.0	734.0	2.00	1.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	204	SO4	40.6460	79.3420	57.0	11.0	734.0	10.00	0.00
Armstrong	DLR MINING INC/TRIPLE K #1 DEEP MINE	101	S01	40.6710	79.4680	28.0	1.0	627.0	12.00	4.00
Armstrong	DOMINION PEOPLES/GIRTY STA	101	S01	40.6380	79.3570	34.0	1.0	780.0	26.00	0.00
Armstrong	DOMINION PEOPLES/GIRTY STA	102	S02	40.6380	79.3570	34.0	1.0	780.0	16.00	0.00
Armstrong	DOMINION PEOPLES/GIRTY STA	103	S03	40.6380	79.3570	33.0	1.0	500.0	54.00	0.00
Armstrong	DOMINION PEOPLES/GIRTY STA	104	S04	40.6380	79.3570	30.0	2.0	680.0	41.00	0.00
Armstrong	DOMINION PEOPLES/ROARING RUN STA	101	SO1	40.5760	79.5010	33.0	1.0	500.0	3.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	32	S32	40.7910	79.3660	24.0	1.0	1000.0	1.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	101	S01	40.7910	79.3660	31.0	1.0	740.0	30.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	102	S02	40.7910	79.3660	30.0	2.0	680.0	2.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	103	S03	40.7910	79.3660	30.0	2.0	680.0	55.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	104	S04	40.7910	79.3660	30.0	2.0	680.0	8.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	105	S05	40.7910	79.3660	31.0	1.0	550.0	29.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	101	S01	40.6380	79.3570	26.0	2.0	600.0	3.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	102	S02	40.6380	79.3570	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	103	S03	40.6380	79.3570	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	104	S04	40.6380	79.3570	26.0	2.0	600.0	1.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	105	S05	40.6380	79.3570	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	106	S06	40.6380	79.3570	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	114	S09	40.6380	79.3570	26.0	2.0	350.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	101	S01	40.7770	79.5290	25.0	3.0	235.0	95.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	102	S02	40.7770	79.5290	56.0	2.0	550.0	27.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	102	S11	40.7770	79.5290	56.0	2.0	550.0	27.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	102	S12	40.7770	79.5290	59.0	2.0	550.0	27.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	103	S03	40.7770	79.5290	71.0	3.0	550.0	62.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	104	S04	40.7770	79.5290	31.0	2.0	550.0	54.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	105	S05	40.7770	79.5290	31.0	2.0	550.0	55.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	106	S06	40.7770	79.5290	31.0	2.0	550.0	55.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	107	S07	40.7770	79.5290	28.0	2.0	550.0	57.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	108	S08	40.7770	79.5290	29.0	2.0	550.0	4.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	109	S09	40.7770	79.5290	33.0	3.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	109	S13	40.7770	79.5290	33.0	3.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	110	S10	40.7770	79.5290	43.0	4.0	550.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	110	S14	40.7770	79.5290	43.0	4.0	550.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	110	S15	40.7770	79.5290	43.0	4.0	550.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	111	S16	40.7770	79.5290	47.0	4.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	111	S17	40.7770	79.5290	47.0	4.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	120	Z01	40.7770	79.5290	1.0	0.0	72.0	7.00	0.00
Armstrong	EQUITABLE GAS CO/FISHER STATION	101	S01	40.7570	79.2690	20.0	3.0	500.0	22.00	0.00
Armstrong	EQUITABLE GAS CO/SHOEMAKER	101	S01	40.7850	79.3410	27.0	1.0	745.0	38.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Armstrong	EQUITABLE GAS CO/SHOEMAKER	102	S02	40.7560	79.5500	18.0	2.0	660.0	3.00	0.00
Armstrong	EQUITABLE GAS CO/VILLAGE STATION	102	S02	40.7690	79.2430	27.0	1.0	745.0	11.00	0.00
Armstrong	EQUITRANS INC/ATWOOD BOOSTER STA 16	101	S01	40.7170	79.5320	20.0	3.0	500.0	31.00	0.00
Armstrong	EQUITRANS INC/CROOKED CREEK COMPRESSOR	32	S02	40.6930	80.3210	49.0	5.0	350.0	4.00	0.00
Armstrong	EQUITRANS INC/CROOKED CREEK COMPRESSOR	102	S02	40.7170	79.5320	20.0	3.0	500.0	26.00	0.00
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	100	S01	40.6840	79.6890	36.0	3.0	410.0	1.00	4.00
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	101	S02	40.6840	79.6890	36.0	3.0	410.0	1.00	5.00
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	101	S02	40.6840	79.6890	36.0	3.0	410.0	1.00	0.00
Armstrong	KITTANNING BRICK CO/REESEDALE	100	S01	40.9360	79.4690	43.0	4.0	362.0	1.00	0.00
Armstrong	KITTANNING BRICK CO/REESEDALE	101	S01	40.9440	79.6170	27.0	1.0	745.0	24.00	0.00
Armstrong	KITTANNING BRICK CO/REESEDALE	105	S04	40.9360	79.4690	31.0	3.0	559.0	0.00	1.00
Armstrong	NATL FUEL GAS SUPPLY/KAYLOR STA	101	S01	40.7560	79.5500	18.0	2.0	660.0	1.00	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	37	S07	40.6600	79.3420	275.0	7.0	650.0	7.00	20.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	38	S07	40.6600	79.3420	275.0	7.0	650.0	8.00	19.00
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	N 032	S02	40.6538	-80.3559	225.0	7.8	335.0	2086.90	887.20
Beaver	PA POWER CO/BRUCE MANSFIELD PLT	31	S01	40.6344	-80.4200	950.0	19.2	356.0	1596.50	6652.30
Beaver	PA POWER CO/BRUCE MANSFIELD PLT	32	S03	40.6344	-80.4200	950.0	19.2	356.0	1595.10	6646.20
Beaver	PA POWER CO/BRUCE MANSFIELD PLT	33	S05	40.6344	-80.4200	600.0	19.2	356.0	1586.60	6267.20
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	33	S03	40.6540	80.3560	225.0	8.0	335.0	1031.00	1172.00
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	34	S04	40.6540	80.3560	225.0	8.0	335.0	965.00	1091.00
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	35	S05	40.6540	80.3560	225.0	5.0	335.0	550.00	585.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	104	Z01	40.6900	80.2810	40.0	0.0	72.0	2.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	104	Z01	40.6900	80.2810	40.0	0.0	72.0	1.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	105	Z02	40.6900	80.2810	40.0	0.0	72.0	4.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	105	Z02	40.6900	80.2810	40.0	0.0	72.0	4.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	110	S01	40.6900	80.2810	37.0	2.0	442.0	2.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	115	S19	40.6900	80.2810	58.0	3.0	380.0	1.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	115	S19	40.6900	80.2810	58.0	3.0	380.0	1.00	0.00
Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	33	P15	40.7540	80.3240	60.0	2.0	300.0	2.00	0.00
Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	102	S02	40.7540	80.3240	41.0	2.0	107.0	7.00	0.00
Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	134	Z01	40.7540	80.3240	1.0	0.0	72.0	3.00	0.00
Beaver	BASF CORP/MONACA PLT	CD002	S01	40.6600	80.3460	40.0	0.0	70.0	5.00	0.00
Beaver	CENTRIA/CENTRIA	101	S04	40.7220	80.2000	86.0	3.0	400.0	4.00	0.00
Beaver	CENTRIA/CENTRIA	101	S04	40.7220	80.2000	86.0	3.0	400.0	5.00	0.00
Beaver	CUTLER HAMMER/BEAVER	33	S03	40.6930	80.3210	49.0	2.0	350.0	2.00	0.00
Beaver	CUTLER HAMMER/BEAVER	103	S02	40.6900	80.2810	100.0	5.0	800.0	111.00	11.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	124	S04	40.8100	80.4290	43.0	4.0	362.0	5.00	36.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	124	S04	40.8100	80.4290	43.0	4.0	362.0	0.00	36.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	132	S05	40.8100	80.4290	43.0	4.0	362.0	11.00	84.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	132	S05	40.8100	80.4290	43.0	4.0	362.0	0.00	83.00
Beaver	DOMINION TRANS INC/BEAVER	36	S06	40.7720	80.2500	31.0	2.0	450.0	7.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Beaver	DOMINION TRANS INC/BEAVER	101	S01	40.7720	80.2500	52.0	3.0	700.0	27.00	0.00
Beaver	DOMINION TRANS INC/BEAVER	102	S02	40.7720	80.2500	52.0	3.0	700.0	33.00	0.00
Beaver	DOMINION TRANS INC/BEAVER	103	S03	40.7720	80.2500	52.0	3.0	700.0	30.00	0.00
Beaver	DOMINION TRANS INC/BEAVER	104	S04	40.7720	80.2500	52.0	3.0	700.0	37.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	32	S16	40.6710	80.3360	38.0	2.0	400.0	2.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	36	S52	40.6710	80.3360	60.0	1.0	400.0	1.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	207	S02	40.6710	80.3360	103.0	7.0	117.0	4.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	208	U01	40.6710	80.3360	400.0	18.0	198.0	3.00	399.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	210	S03	40.6710	80.3360	100.0	2.0	70.0	0.00	50.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	401	U01	40.6710	80.3360	400.0	18.0	198.0	51.00	4835.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	502	U02	40.6710	80.3360	121.0	7.0	175.0	18.00	1.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	502	U03	40.6710	80.3360	200.0	11.0	160.0	24.00	1.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	U02	40.6710	80.3360	121.0	7.0	175.0	3.00	2.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	U03	40.6710	80.3360	200.0	11.0	160.0	2.00	2.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	S11	40.6710	80.3360	104.0	7.0	120.0	15.00	13.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	S13	40.6710	80.3360	104.0	7.0	170.0	5.00	4.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S24	40.6710	80.3360	75.0	4.0	390.0	57.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S21	40.6710	80.3360	68.0	4.0	208.0	7.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S25	40.6710	80.3360	75.0	6.0	250.0	57.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S26	40.6710	80.3360	75.0	4.0	180.0	57.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	802	S22	40.6710	80.3360	63.0	2.0	70.0	1.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	904	S10	40.6710	80.3360	60.0	3.0	70.0	1.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	40	S040	40.6390	80.4610	46.0	3.0	330.0	10.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	41	S041B	40.6390	80.4610	37.0	2.0	430.0	15.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	41	S041A	40.6390	80.4610	37.0	2.0	430.0	15.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	106	S106	40.6390	80.4610	85.0	12.0	171.0	347.00	17.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	138	S138A	40.6390	80.4610	57.0	3.0	533.0	3.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	138	S138C	40.6390	80.4610	57.0	3.0	533.0	3.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	138	S138B	40.6390	80.4610	57.0	3.0	533.0	3.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	140	S70	40.6390	80.4610	47.0	3.0	99.0	43.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	140	S140	40.6390	80.4610	47.0	3.0	99.0	43.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	206	S206	40.6390	80.4610	57.0	3.0	533.0	13.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	208	S208	40.6390	80.4610	55.0	3.0	99.0	14.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	209	S209	40.6390	80.4610	58.0	3.0	436.0	3.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	101	S01	40.8360	80.3180	125.0	11.0	800.0	18.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	101	S01	40.8360	80.3180	125.0	11.0	800.0	20.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	102	S02	40.8360	80.3180	54.0	4.0	900.0	2.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	102	S02	40.8360	80.3180	54.0	4.0	900.0	2.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	103	S03	40.8360	80.3180	57.0	3.0	533.0	4.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	104	S04	40.8360	80.3180	58.0	3.0	380.0	3.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	105	S05	40.8360	80.3180	58.0	4.0	262.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Beaver	KOPPEL STEEL CORP/AMBRIDGE	105	S05	40.8360	80.3180	58.0	4.0	262.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	109	S09	40.8360	80.3180	37.0	2.0	442.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	109	S09	40.8360	80.3180	37.0	2.0	442.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	33	S03	40.8360	80.3180	54.0	4.0	900.0	2.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	102	S02	40.8360	80.3180	54.0	4.0	900.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	103	S03	40.8360	80.3180	54.0	4.0	900.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	109	S05	40.8360	80.3180	100.0	10.0	150.0	17.00	27.00
Beaver	NGC IND/SHIPPINGPORT	100	S100	40.6250	80.4170	30.0	2.0	350.0	5.00	0.00
Beaver	NGC IND/SHIPPINGPORT	109	S09	40.6250	80.4170	58.0	3.0	380.0	5.00	0.00
Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	31	S01	40.6590	80.2550	58.0	3.0	436.0	1.00	0.00
Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	32	S02	40.6590	80.2550	58.0	3.0	436.0	1.00	0.00
Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	33	S03	40.6590	80.2550	58.0	3.0	436.0	1.00	0.00
Beaver	NOVA CHEM CO/BEAVER	101	S01	40.6540	80.3560	40.0	5.0	460.0	6.00	0.00
Beaver	NOVA CHEM CO/BEAVER	501	S510	40.6540	80.3560	31.0	1.0	129.0	2.00	0.00
Beaver	NOVA CHEM CO/BEAVER	801	Z07	40.6540	80.3560	1.0	0.0	72.0	1.00	0.00
Beaver	SCA PKG NORTH AMERICA /NEW BRIGHTON FAC	32	S02	40.7400	80.3040	25.0	2.0	420.0	1.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-1,2	S-1	40.5890	80.4820	54.0	9.0	203.0	31.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-3	S-2	40.5890	80.4820	58.0	3.0	380.0	15.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-4	S-3	40.5890	80.4820	58.0	3.0	380.0	15.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-5	S-4	40.5890	80.4820	100.0	5.0	220.0	10.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-7	S-6	40.5890	80.4820	25.0	1.0	600.0	1.00	0.00
Beaver	WHEMCO FOUNDRY/MIDLAND	102	S02	40.6310	80.4450	58.0	4.0	262.0	1.00	0.00
Beaver	WHEMCO FOUNDRY/MIDLAND	131	S03	40.6310	80.4450	26.0	2.0	85.0	1.00	0.00
Beaver	WHEMCO FOUNDRY/MIDLAND	132	S04	40.6310	80.4450	40.0	6.0	200.0	6.00	1.00
Beaver	WHEMCO FOUNDRY/MIDLAND	134	Z04	40.6310	80.4450	1.0	0.0	72.0	8.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	31	S04	40.8290	79.9430	58.0	4.0	500.0	5.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	32	S05	40.8290	79.9430	30.0	3.0	500.0	4.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	33	S06	40.8290	79.9430	64.0	5.0	450.0	6.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	34	S07	40.8290	79.9430	64.0	5.0	450.0	7.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	35	S08	40.8290	79.9430	64.0	5.0	450.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	38	S038	40.8290	79.9430	15.0	2.0	430.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	102	S44	40.8290	79.9430	37.0	2.0	430.0	70.00	10.00
Butler	AK STEEL CORP/BUTLER WORKS	103	S44	40.8290	79.9430	37.0	2.0	430.0	71.00	10.00
Butler	AK STEEL CORP/BUTLER WORKS	104	S44	40.8290	79.9430	37.0	2.0	430.0	68.00	9.00
Butler	AK STEEL CORP/BUTLER WORKS	111	T07	40.8290	79.9430	73.0	6.0	702.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	111	T07	40.8290	79.9430	73.0	6.0	702.0	8.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	112	T08	40.8290	79.9430	73.0	6.0	702.0	10.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	112	T08	40.8290	79.9430	73.0	6.0	702.0	7.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	113	T09	40.8290	79.9430	150.0	4.0	1484.0	11.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	113	T09	40.8290	79.9430	150.0	4.0	1484.0	8.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	118	T12	40.8290	79.9430	50.0	3.0	100.0	4.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Butler	AK STEEL CORP/BUTLER WORKS	122	T17	40.8290	79.9430	55.0	3.0	100.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	124	T19	40.8290	79.9430	54.0	3.0	100.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	125	S43	40.8290	79.9430	50.0	3.0	100.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	127	T22	40.8290	79.9430	67.0	2.0	100.0	6.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	128	Z25	40.8290	79.9430	1.0	0.0	72.0	3.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	129	Z25	40.8290	79.9430	1.0	0.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	130	Z25	40.8290	79.9430	1.0	0.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	131	Z25	40.8290	79.9430	1.0	0.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	132	Z25	40.8290	79.9430	1.0	0.0	72.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	133	Z25	40.8290	79.9430	1.0	0.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	134	Z25	40.8290	79.9430	1.0	0.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	135	Z25	40.8290	79.9430	1.0	0.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	136	S17	40.8290	79.9430	77.0	35.0	250.0	8.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	137	S37	40.8290	79.9430	73.0	6.0	702.0	14.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	137	S37	40.8290	79.9430	73.0	6.0	702.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	140	S44	40.8290	79.9430	37.0	2.0	430.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	141	S44	40.8290	79.9430	37.0	2.0	430.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	148	S23	40.8290	79.9430	79.0	4.0	389.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	156	Z03	40.8290	79.9430	100.0	0.0	72.0	10.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	157	S18	40.8290	79.9430	58.0	3.0	436.0	11.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	158	S19	40.8290	79.9430	108.0	7.0	387.0	17.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	159	Z04	40.8290	79.9430	1.0	0.0	72.0	10.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	247	Z01	40.8290	79.9430	100.0	0.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	248	Z01	40.8290	79.9430	100.0	0.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	249	Z01	40.8290	79.9430	100.0	0.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	250	Z01	40.8290	79.9430	100.0	0.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	251	Z01	40.8290	79.9430	100.0	0.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	252	Z01	40.8290	79.9430	100.0	0.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	253	Z52	40.8290	79.9430	1.0	0.0	72.0	24.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	160A	S24	40.8290	79.9430	58.0	3.0	436.0	4.00	0.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	101	S01	40.7950	79.7000	175.0	12.0	465.0	393.00	377.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	101	S01	40.7950	79.7000	175.0	12.0	465.0	0.00	339.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	121	S01	40.7950	79.7000	175.0	12.0	465.0	341.00	305.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	121	S01	40.7950	79.7000	175.0	12.0	465.0	0.00	305.00
Butler	BASF EVANS CITY OPS	241	S241	40.8500	0.0080	30.0	2.0	1600.0	1.00	0.00
Butler	BASF EVANS CITY OPS	241	S241	40.8500	0.0080	30.0	2.0	1600.0	2.00	0.00
Butler	BASF EVANS CITY OPS	721	S721	40.8500	0.0080	13.0	2.0	350.0	2.00	0.00
Butler	BNZ MATERIALS INC/ZELIENOPLE	206	S206A	40.7920	80.1490	43.0	4.0	362.0	1.00	0.00
Butler	BNZ MATERIALS INC/ZELIENOPLE	206	S206	40.7920	80.1490	43.0	4.0	362.0	1.00	0.00
Butler	BNZ MATERIALS INC/ZELIENOPLE	207	S207A	40.7920	80.1490	70.0	3.0	375.0	6.00	0.00
Butler	BNZ MATERIALS INC/ZELIENOPLE	207	S207B	40.7920	80.1490	43.0	4.0	362.0	6.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	101	S01	40.8670	79.8750	25.0	2.0	615.0	3.00	0.00
Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	102	S08	40.8670	79.8750	15.0	3.0	390.0	2.00	0.00
Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	108	S08	40.8670	79.8750	15.0	3.0	390.0	2.00	0.00
Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	31	S31	40.8720	79.8390	8.0	2.0	285.0	2.00	0.00
Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	32	S32	40.8720	79.8390	8.0	2.0	285.0	2.00	0.00
Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	33	S33	40.8720	79.8390	8.0	2.0	285.0	1.00	0.00
Butler	CROMPTON CORP/PETROLIA	32	S032	41.0130	79.7180	200.0	9.0	600.0	18.00	3.00
Butler	CROMPTON CORP/PETROLIA	32	S032	41.0130	79.7180	200.0	9.0	600.0	10.00	0.00
Butler	CROMPTON CORP/PETROLIA	33	S033	41.0130	79.7180	30.0	2.0	350.0	15.00	0.00
Butler	CROMPTON CORP/PETROLIA	34	S034	41.0130	79.7180	200.0	6.0	640.0	41.00	6.00
Butler	CROMPTON CORP/PETROLIA	34	S034	41.0130	79.7180	200.0	6.0	640.0	4.00	0.00
Butler	CROMPTON CORP/PETROLIA	35	S034	41.0130	79.7180	200.0	6.0	640.0	24.00	4.00
Butler	CROMPTON CORP/PETROLIA	35	S034	41.0130	79.7180	200.0	6.0	640.0	1.00	0.00
Butler	CROMPTON CORP/PETROLIA	110	S0110	41.0130	79.7180	60.0	2.0	600.0	2.00	1.00
Butler	CROMPTON CORP/PETROLIA	110	S0110	41.0130	79.7180	60.0	2.0	600.0	16.00	0.00
Butler	CROMPTON CORP/PETROLIA	112	S0112	41.0130	79.7180	50.0	2.0	790.0	2.00	0.00
Butler	CROMPTON CORP/PETROLIA	116	S0116	41.0130	79.7180	50.0	2.0	700.0	3.00	0.00
Butler	CROMPTON CORP/PETROLIA	117	S0117	41.0130	79.7180	50.0	2.0	700.0	7.00	0.00
Butler	CROMPTON CORP/PETROLIA	119	S0118	41.0130	79.7180	50.0	2.0	700.0	1.00	0.00
Butler	CROMPTON CORP/PETROLIA	123	SO5	41.0130	79.7180	10.0	1.0	1200.0	12.00	43.00
Butler	CROMPTON CORP/PETROLIA	124	S06	41.0130	79.7180	10.0	1.0	1200.0	12.00	16.00
Butler	CROMPTON CORP/PETROLIA	125	S125	41.0130	79.7180	25.0	1.0	130.0	6.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	35	S035	41.0180	79.7170	30.0	3.0	300.0	7.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	36	S036	41.0180	79.7170	50.0	3.0	320.0	7.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	38	S038	41.0180	79.7170	86.0	4.0	350.0	10.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	39	S039	41.0180	79.7170	51.0	6.0	322.0	21.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	40	S040	41.0180	79.7170	64.0	6.0	322.0	13.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	100	S100	41.0180	79.7170	75.0	2.0	193.0	1.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	106	S106	41.0180	79.7170	65.0	4.0	200.0	3.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	106	S106	41.0180	79.7170	65.0	4.0	200.0	2.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	131	S131	41.0180	79.7170	62.0	4.0	234.0	3.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	131	S131	41.0180	79.7170	62.0	4.0	234.0	2.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	134	S134	41.0180	79.7170	55.0	2.0	200.0	0.00	33.00
Butler	INDSPEC CHEM CORP/PETROLIA	153	S116	41.0180	79.7170	45.0	3.0	143.0	1.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	159	S159	41.0180	79.7170	35.0	2.0	120.0	0.00	9.00
Butler	INDSPEC CHEM CORP/PETROLIA	180	S180	41.0180	79.7170	26.0	1.0	490.0	11.00	1.00
Butler	NAPCO INC/VALENCIA	32	S01	40.7240	79.9330	53.0	3.0	1280.0	1.00	0.00
Butler	NAPCO INC/VALENCIA	33	S01	40.7240	79.9330	53.0	3.0	1280.0	1.00	0.00
Butler	NAPCO INC/VALENCIA	38	Z01	40.7240	79.9330	40.0	0.0	72.0	3.00	0.00
Butler	NAPCO INC/VALENCIA	C01	S01	40.7240	79.9330	53.0	3.0	1280.0	5.00	0.00
Butler	PENRECO/KARNS CITY	31	S01	40.9960	79.7250	61.0	4.0	580.0	2.00	1.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Butler	PENRECO/KARNS CITY	31	S01	40.9960	79.7250	61.0	4.0	580.0	2.00	0.00
Butler	PENRECO/KARNS CITY	32	S02	40.9960	79.7250	64.0	4.0	530.0	104.00	238.00
Butler	PENRECO/KARNS CITY	33	S03	40.9960	79.7250	72.0	4.0	550.0	110.00	261.00
Butler	PENRECO/KARNS CITY	34	S04	40.9960	79.7250	55.0	2.0	1600.0	3.00	0.00
Butler	PENRECO/KARNS CITY	35	S05	40.9960	79.7250	57.0	2.0	1000.0	3.00	0.00
Butler	PENRECO/KARNS CITY	36	S06	40.9960	79.7250	55.0	2.0	1600.0	1.00	0.00
Butler	PENRECO/KARNS CITY	38	S08	40.9960	79.7250	41.0	2.0	800.0	2.00	0.00
Butler	PENRECO/KARNS CITY	101	S04	40.9960	79.7250	55.0	2.0	1600.0	2.00	0.00
Butler	PENRECO/KARNS CITY	102	S01	40.9960	79.7250	61.0	4.0	580.0	0.00	6.00
Butler	PENRECO/KARNS CITY	102	S01	40.9960	79.7250	61.0	4.0	580.0	0.00	6.00
Butler	PENRECO/KARNS CITY	102	S05	40.9960	79.7250	57.0	2.0	1000.0	0.00	6.00
Butler	PENRECO/KARNS CITY	102	S05	40.9960	79.7250	57.0	2.0	1000.0	0.00	6.00
Butler	PENRECO/KARNS CITY	116	Z01	40.9960	79.7250	100.0	0.0	72.0	6.00	0.00
Butler	PENRECO/KARNS CITY	118	S18	40.9960	79.7250	103.0	5.0	624.0	1.00	59.00
Butler	PENRECO/KARNS CITY	119	S19	40.9960	79.7250	103.0	5.0	624.0	1.00	1.00
Butler	SENECA LANDFILL INC/SENECA	101	S01	40.8120	80.0790	20.0	6.0	1600.0	4.00	2.00
Butler	SENECA LANDFILL INC/SENECA	101	Z01	40.8120	80.0790	1.0	0.0	72.0	4.00	2.00
Butler	THREE RIVERS ALUM CO/TRACO	115	Z115	40.7030	80.1120	1.0	0.0	72.0	2.00	0.00
Butler	THREE RIVERS ALUM CO/TRACO	116	Z116	40.7030	80.1120	1.0	0.0	72.0	2.00	0.00
Butler	THREE RIVERS ALUM CO/TRACO	116	S116	40.7030	80.1120	47.0	1.0	311.0	2.00	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO LLC/CHAMBERS	B 012	S012	39.8667	-77.6833	64.7	11.4	650.0	3.19	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO LLC/CHAMBERS	B 013	S013	39.8667	-77.6833	64.7	11.4	650.0	3.24	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS POWER S	T 101	S01	39.7475	-79.8388	64.7	11.4	650.0	4.69	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS POWER S	T 102	S02	39.7475	-79.8388	64.7	11.4	650.0	5.15	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FE	R 031	S01	39.8555	-79.9268	441.0	17.2	302.0	4833.99	20777.38
Fayette	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FE	R 032	S01	39.8555	-79.9268	441.0	17.2	302.0	1110.09	2220.12
Fayette	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FE	R 033	S02	39.8555	-79.9268	441.0	17.2	302.0	1106.51	2212.98
Fayette	CHAMBERSBURG DIESEL	105	41	39.9416	-77.6627	62.0	10.0	585.0	0.14	0.00
Fayette	CHAMBERSBURG DIESEL	106	41	39.9416	-77.6627	62.0	10.0	585.0	0.14	0.00
Fayette	CHAMBERSBURG DIESEL	107	41	39.9416	-77.6627	62.0	10.0	585.0	0.82	0.00
Fayette	FAYETTE ENERGY FACILITY	1	41	39.8619	-79.9125	62.0	10.0	585.0	106.90	0.00
Fayette	FAYETTE ENERGY FACILITY	2	41	39.8619	-79.9125	62.0	10.0	585.0	16.96	0.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	101	S01	39.9880	79.5890	100.0	5.0	800.0	199.00	123.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	102	S02	39.9880	79.5890	75.0	3.0	437.0	325.00	193.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	108	S08	39.9880	79.5890	58.0	3.0	436.0	1.00	0.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	109	S109	39.9880	79.5890	37.0	2.0	600.0	1.00	0.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	110	S110	39.9880	79.5890	35.0	2.0	600.0	2.00	0.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	111	S111	39.9880	79.5890	30.0	3.0	600.0	1.00	0.00
Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	32	S032	39.9840	79.5780	18.0	3.0	330.0	1.00	0.00
Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	33	S033	39.9840	79.5780	12.0	2.0	330.0	1.00	0.00
Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	102	S102	39.9840	79.5780	25.0	4.0	600.0	3.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Fayette	DOMINION TRANS INC/NORTH SUMMIT	32	S02	39.8540	79.6750	35.0	1.0	430.0	6.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	33	S03	39.8540	79.6750	35.0	1.0	442.0	6.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	34	S04	39.8540	79.6750	37.0	2.0	442.0	3.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	101	S05	39.8540	79.6750	30.0	2.0	680.0	8.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	102	S06	39.8540	79.6750	30.0	2.0	680.0	14.00	0.00
Fayette	ONYX CHESTNUT VALLEY LANDFILL INC/J & L	101	S01	39.8960	79.8010	13.0	2.0	100.0	15.00	1.00
Fayette	TEXAS EASTERN TRANS /UNIONTOWN	102	S01	39.9340	79.6720	40.0	7.0	600.0	10.00	0.00
Fayette	TEXAS EASTERN TRANS /UNIONTOWN	103	S03	39.9340	79.6720	40.0	5.0	693.0	21.00	1.00
Greene	CARNEGIE INTERSTATE /HOLLY HILL EXTRACT	101	S01	39.8930	80.1580	30.0	2.0	680.0	1.00	0.00
Greene	CARNEGIE INTERSTATE /WAYNESBURG COMPRES	101	SO1	39.8920	80.1830	27.0	1.0	745.0	3.00	0.00
Greene	CONSOL COAL CO/ROBENA PREP PLT	31	S31	39.8390	79.9340	58.0	3.0	436.0	5.00	0.00
Greene	CONSOL PA COAL CO/BAILEY PREP PLT	101	S01	39.9730	80.4120	103.0	8.0	248.0	168.00	245.00
Greene	CONSOL PA COAL CO/BAILEY PREP PLT	102	S02	39.9730	80.4120	25.0	0.0	72.0	289.00	569.00
Greene	DOMINION TRANS INC/CRAYNE STA	101	S01	39.9000	80.1500	40.0	5.0	693.0	13.00	0.00
Greene	DOMINION TRANS INC/CRAYNE STA	102	S02	39.9000	80.1500	30.0	2.0	700.0	5.00	0.00
Greene	EQUITRANS INC/PRATT 47	37	S07	39.9080	80.1460	20.0	1.0	700.0	2.00	0.00
Greene	EQUITRANS INC/PRATT 47	101	SO1	39.9080	80.1460	27.0	1.0	745.0	14.00	0.00
Greene	EQUITRANS INC/PRATT 47	102	SO2	39.9080	80.1460	27.0	1.0	745.0	5.00	0.00
Greene	EQUITRANS INC/PRATT 47	103	SO3	39.9080	80.1460	27.0	1.0	745.0	9.00	0.00
Greene	EQUITRANS INC/PRATT 47	104	SO4	39.9080	80.1460	27.0	1.0	745.0	8.00	0.00
Greene	EQUITRANS INC/PRATT 47	105	SO5	39.9080	80.1460	27.0	1.0	745.0	3.00	0.00
Greene	KYOWA AMER CORP/WAYNESBURG PLT	31	S01	39.9170	80.1830	20.0	2.0	350.0	2.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	101	SO1	39.8900	80.4520	27.0	1.0	745.0	12.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	102	SO2	39.8900	80.4520	27.0	1.0	745.0	14.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	103	SO3	39.8900	80.4520	27.0	1.0	745.0	33.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	104	SO4	39.8900	80.4520	27.0	1.0	745.0	24.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	105	SO5	39.8900	80.4520	27.0	1.0	745.0	23.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	106	SO6	39.8900	80.4520	27.0	1.0	745.0	22.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	107	SO7	39.8900	80.4520	27.0	1.0	745.0	14.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	108	SO8	39.8900	80.4520	27.0	1.0	745.0	1.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	109	SO9	39.8900	80.4520	27.0	1.0	745.0	4.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	110	S10	39.8900	80.4520	27.0	1.0	745.0	5.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	111	S11	39.8900	80.4520	27.0	1.0	745.0	6.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	112	S12	39.8900	80.4520	27.0	1.0	745.0	5.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	113	S13	39.8900	80.4520	27.0	1.0	745.0	3.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	114	S14	39.8900	80.4520	27.0	1.0	745.0	3.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	115	S15	39.8900	80.4520	27.0	1.0	745.0	2.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	116	S16	39.8900	80.4520	27.0	1.0	745.0	3.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	117	S17	39.8900	80.4520	27.0	1.0	745.0	2.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	118	S18	39.8900	80.4520	43.0	6.0	894.0	21.00	1.00
Greene	TEXAS EASTERN TRANS /WAYNESBURG STA	101	SO1	39.9200	80.1250	40.0	5.0	693.0	4.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Indiana	HOMER CITY OL/HOMER CITY GEN STA	31	S01	40.5136	-79.1968	800.0	24.0	310.0	1450.56	4177.79
Indiana	HOMER CITY OL/HOMER CITY GEN STA	32	S02	40.5136	-79.1968	800.0	24.0	310.0	1439.15	3872.07
Indiana	HOMER CITY OL/HOMER CITY GEN STA	33	S04	40.5136	-79.1968	854.0	27.0	335.0	1493.40	2738.00
Lawrence	GENERIC UNIT	GCC42	41	40.9383	-80.3683	62.0	10.0	585.0	63.06	0.00
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	33	T01	40.9380	-80.3679	401.0	15.9	335.0	1159.26	4860.44
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	34	T01	40.9380	-80.3679	401.0	15.9	335.0	1068.74	4825.06
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	35	T01	40.9380	-80.3679	401.0	15.9	335.0	1636.00	6686.60
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	226	S226	40.8780	80.3250	300.0	11.0	275.0	425.00	698.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	226	S226	40.8780	80.3250	300.0	11.0	275.0	0.00	368.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	227	S226	40.8780	80.3250	300.0	11.0	275.0	486.00	698.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	227	S226	40.8780	80.3250	300.0	11.0	275.0	0.00	369.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	228	S226	40.8780	80.3250	300.0	11.0	275.0	383.00	632.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	228	S226	40.8780	80.3250	300.0	11.0	275.0	0.00	330.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	232	S195	40.8780	80.3250	80.0	3.0	146.0	8.00	21.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	233	S196	40.8780	80.3250	80.0	3.0	146.0	8.00	21.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	300	S300	40.8610	80.2940	34.0	2.0	147.0	16.00	0.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	341	S341	40.8610	80.2940	83.0	3.0	300.0	1.00	0.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	500A	S500A	40.8610	80.2940	38.0	3.0	400.0	3.00	0.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	500B	S500B	40.8610	80.2940	34.0	2.0	147.0	4.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	33	S03	40.9910	80.3500	85.0	3.0	550.0	1.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	34	Z01	40.9910	80.3500	1.0	0.0	72.0	3.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	101	S01	40.9910	80.3500	75.0	10.0	110.0	12.00	39.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	102	S02	40.9910	80.3500	100.0	8.0	533.0	7.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	102	Z01	40.9910	80.3500	1.0	0.0	72.0	1.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	102	S02	40.9910	80.3500	100.0	8.0	533.0	4.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	132	Z01	40.9910	80.3500	1.0	0.0	72.0	2.00	0.00
Lawrence	ESSROC/BESSEMER	501	S501	40.9750	80.4900	205.0	11.0	350.0	753.00	96.00
Lawrence	ESSROC/BESSEMER	502	S502	40.9750	80.4900	200.0	15.0	400.0	1858.00	650.00
Lawrence	INMETCO/ELLWOOD CITY	1	Z001	40.8580	80.2760	1.0	0.0	72.0	2.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	102	S102	40.8580	80.2760	69.0	3.0	135.0	12.00	4.00
Lawrence	INMETCO/ELLWOOD CITY	102	S102	40.8580	80.2760	69.0	3.0	135.0	13.00	4.00
Lawrence	INMETCO/ELLWOOD CITY	103	S103	40.8580	80.2760	73.0	5.0	165.0	17.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	103	S103A	40.8580	80.2760	72.0	10.0	265.0	9.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	105	Z105	40.8580	80.2760	1.0	0.0	72.0	4.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	107	S107	40.8580	80.2760	34.0	2.0	147.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	Z100	40.9910	80.3530	1.0	0.0	72.0	2.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F1	40.9910	80.3530	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F2	40.9910	80.3530	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F3	40.9910	80.3530	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F4	40.9910	80.3530	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	103	7F8	40.9910	80.3530	13.0	3.0	180.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	103	7F9	40.9910	80.3530	13.0	3.0	180.0	1.00	0.00
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	36	S06	40.9380	80.3680	31.0	2.0	642.0	1.00	0.00
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	37	S07	40.9380	80.3680	31.0	2.0	642.0	1.00	0.00
Lawrence	US CAN CO/NEW CASTLE PLANT	C01	S-02	40.9810	80.3040	26.0	4.0	460.0	1.00	0.00
Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POW	E 034	S04	40.2213	-79.9688	375.0	20.0	302.0	3479.90	1659.70
Washington	GENERIC UNIT	GGT42	41	40.4664	-80.4310	62.0	10.0	585.0	2.66	0.00
Washington	ORION POWER MIDWEST/ELRAMA	31	S01	40.2531	-79.9182	392.0	26.0	302.0	1382.56	1086.32
Washington	ORION POWER MIDWEST/ELRAMA	32	S01	40.2531	-79.9182	392.0	26.0	302.0	1333.64	1047.88
Washington	ORION POWER MIDWEST/ELRAMA	33	S01	40.2531	-79.9182	392.0	26.0	302.0	1519.98	1194.30
Washington	ORION POWER MIDWEST/ELRAMA	34	S01	40.2531	-79.9182	392.0	26.0	302.0	2119.92	1665.70
Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POW	35	S05	40.2210	79.9690	150.0	4.0	385.0	1.00	0.00
Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	31	S10	40.2580	80.2040	30.0	5.0	350.0	1.00	0.00
Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	109	S09	40.2580	80.2040	30.0	5.0	350.0	5.00	0.00
Washington	ALLEGHENY LUDLUM COR/WASHINGTON FLATROL	109	Z01	40.1860	80.2720	1.0	0.0	72.0	2.00	0.00
Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	101	S01	40.2690	80.4330	27.0	1.0	745.0	10.00	0.00
Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	102	S02	40.2690	80.4330	27.0	1.0	745.0	10.00	0.00
Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	103	S03	40.2690	80.4330	37.0	2.0	430.0	1.00	0.00
Washington	DOMINION PEOPLES/GIBSON STA	101	S01	40.1440	79.9640	25.0	1.0	680.0	21.00	0.00
Washington	DOMINION PEOPLES/GIBSON STA	102	S02	40.1440	79.9640	25.0	1.0	680.0	3.00	0.00
Washington	DYNO NOBEL INC/DONORA	31	S031	40.1870	79.8550	50.0	3.0	325.0	8.00	0.00
Washington	DYNO NOBEL INC/DONORA	33	S033	40.1870	79.8550	45.0	3.0	525.0	2.00	0.00
Washington	DYNO NOBEL INC/DONORA	101	S01	40.1870	79.8550	107.0	4.0	386.0	278.00	0.00
Washington	EQUITRANS INC/HARTSON	101	S01	40.2530	79.9630	35.0	2.0	400.0	10.00	0.00
Washington	EQUITRANS INC/HARTSON	102	S01	40.2530	79.9630	35.0	2.0	400.0	11.00	0.00
Washington	EQUITRANS INC/HARTSON	103	S01	40.2530	79.9630	35.0	2.0	400.0	14.00	0.00
Washington	EQUITRANS INC/HARTSON	105	SO5	40.2530	79.9630	16.0	2.0	500.0	1.00	0.00
Washington	FALCON PLASTICS/WASHINGTON	103	S03	40.3220	80.2170	40.0	1.0	350.0	1.00	0.00
Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	33	S07	40.1810	79.9250	41.0	2.0	425.0	8.00	0.00
Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	101	S06	40.1810	79.9250	54.0	0.0	68.0	1.00	7.00
Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	103	S05	40.1810	79.9250	112.0	3.0	1202.0	3.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	31	S031A	40.1730	80.2740	20.0	1.0	430.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110A	40.1730	80.2740	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110E	40.1730	80.2740	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110F	40.1730	80.2740	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110F	40.1730	80.2740	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110G	40.1730	80.2740	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110G	40.1730	80.2740	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110A	40.1730	80.2740	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110B	40.1730	80.2740	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110B	40.1730	80.2740	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110C	40.1730	80.2740	50.0	5.0	600.0	1.00	1.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Washington	JESSOP STEEL CO/WASHINGTON	110	W110C	40.1730	80.2740	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110D	40.1730	80.2740	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110D	40.1730	80.2740	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110E	40.1730	80.2740	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	126	Z01	40.1730	80.2740	5.0	0.0	72.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	140	S140	40.1730	80.2740	1.0	0.0	72.0	10.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	150	S150	40.1730	80.2740	57.0	3.0	533.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	150	S150	40.1730	80.2740	57.0	3.0	533.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	160	S160	40.1730	80.2740	57.0	3.0	533.0	4.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	160	S160	40.1730	80.2740	57.0	3.0	533.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	180	S180	40.1730	80.2740	35.0	3.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	180	S180	40.1730	80.2740	35.0	3.0	600.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	220	Z220	40.1730	80.2740	37.0	2.0	430.0	4.00	0.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	101	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	101	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	102	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	102	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	103	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	2.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	103	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	2.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	104	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	4.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	104	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	3.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	105	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	5.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	105	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	4.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	107	S01	40.3630	80.4010	503.0	8.0	123.0	0.00	9.00
Washington	PA DPW/WESTERN STATE SCH & HOSP	33	S03	40.2770	80.1680	60.0	3.0	600.0	1.00	0.00
Washington	PA TRANSFORMER TECH /CANONSBURG	36	SO6	40.2690	80.1700	39.0	2.0	425.0	5.00	0.00
Washington	THERM O ROCK INC/NEW EAGLE PLT	104	S05	40.2060	79.9420	33.0	2.0	254.0	1.00	0.00
Washington	THERM O ROCK INC/NEW EAGLE PLT	105	S08	40.2060	79.9420	33.0	2.0	254.0	1.00	0.00
Washington	THERM O ROCK INC/NEW EAGLE PLT	106	S09	40.2060	79.9420	33.0	2.0	254.0	1.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	101	Z03	40.3990	80.4060	79.0	4.0	389.0	1.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	101	S01	40.3990	80.4060	85.0	12.0	171.0	14.00	1.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	103	Z01	40.3990	80.4060	40.0	0.0	72.0	18.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	104	Z04	40.3990	80.4060	1.0	0.0	72.0	24.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	105	Z03	40.3990	80.4060	79.0	4.0	389.0	4.00	0.00
Washington	USA WASTE SVC INC/USA SOUTH HILLS LDFL	103	Z03	40.2700	79.9890	1.0	0.0	72.0	9.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	37	S037	40.0880	79.8420	37.0	3.0	300.0	2.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	38	S038	40.0880	79.8420	37.0	3.0	300.0	2.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	39	Z03	40.0880	79.8420	1.0	0.0	72.0	2.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	102	S102	40.0880	79.8420	20.0	1.0	1300.0	25.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	103	S103	40.0880	79.8420	57.0	3.0	533.0	4.00	0.00
Washington	WORLD KITCHEN INC/CHARLEROI	107	S24	40.1380	79.8960	80.0	3.0	347.0	64.00	8.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Washington	WORLD KITCHEN INC/CHARLEROI	107	S05	40.1380	79.8960	100.0	2.0	670.0	33.00	4.00
Washington	WORLD KITCHEN INC/CHARLEROI	130	Z01	40.1380	79.8960	1.0	0.0	72.0	12.00	0.00
Westmoreland	ALCOA INC/UPPER BURREL	31	S01	40.5550	79.6550	35.0	1.0	436.0	14.00	0.00
Westmoreland	ALLEGHENY FOUNDRY CO/BOLIVAR	101	S01	40.3970	79.1440	78.0	6.0	263.0	0.00	1.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	31	S031	40.6050	79.5730	55.0	2.0	325.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	32	S032	40.6050	79.5730	55.0	2.0	325.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	116	Z116	40.6050	79.5730	1.0	0.0	72.0	14.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	120A	S120A	40.6050	79.5730	50.0	6.0	1000.0	11.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	120A	S120A	40.6050	79.5730	50.0	6.0	1000.0	8.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	120D	S120	40.6050	79.5730	70.0	4.0	120.0	94.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121A	Z121A	40.6050	79.5730	1.0	0.0	72.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121B	S121B	40.6050	79.5730	16.0	3.0	1000.0	13.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121B	S121B	40.6050	79.5730	16.0	3.0	1000.0	10.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121E	S121E	40.6050	79.5730	60.0	2.0	110.0	34.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	33	S033	40.6400	79.6110	43.0	4.0	300.0	5.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	35	S035A	40.6400	79.6110	55.0	2.0	430.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	36	S036A	40.6400	79.6110	55.0	2.0	430.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117A	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117B	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117C	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117D	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117E	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118A	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118F	40.6400	79.6110	58.0	3.0	436.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118B	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118C	40.6400	79.6110	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118D	40.6400	79.6110	58.0	3.0	436.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118E	40.6400	79.6110	50.0	4.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	134	Z134	40.6400	79.6110	20.0	0.0	72.0	3.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	103C	S103	40.6400	79.6110	32.0	2.0	120.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	105A	Z105A	40.6400	79.6110	1.0	0.0	72.0	9.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	105A	Z105A	40.6400	79.6110	1.0	0.0	72.0	4.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	105E	S105E	40.6400	79.6110	55.0	3.0	99.0	11.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112C	Z112C	40.6400	79.6110	10.0	0.0	72.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21A	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21A	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21B	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21B	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21C	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21C	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22A	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22F	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22B	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22C	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22D	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22E	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113C	Z113C	40.6400	79.6110	1.0	0.0	72.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25A	40.6400	79.6110	50.0	2.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25A	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25B	40.6400	79.6110	50.0	2.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25B	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25C	40.6400	79.6110	50.0	2.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25C	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18A	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18F	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18G	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18B	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18C	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18D	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18E	40.6400	79.6110	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	101	S01	40.3260	79.3730	25.0	6.0	99.0	2.00	0.00
Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	102	S02	40.3260	79.3730	58.0	4.0	262.0	1.00	0.00
Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	103	Z03	40.3260	79.3730	1.0	0.0	72.0	11.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	31	S031	40.1910	79.5760	30.0	2.0	310.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	32	S032	40.1910	79.5760	30.0	2.0	310.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	101	S101	40.1910	79.5760	175.0	4.0	575.0	20.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	101	S101	40.1910	79.5760	175.0	4.0	575.0	455.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	102	S102	40.1910	79.5760	58.0	3.0	436.0	15.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	102	S102	40.1910	79.5760	58.0	3.0	436.0	195.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	103	S103	40.1910	79.5760	76.0	2.0	400.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	104	S104	40.1910	79.5760	76.0	2.0	400.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	105	S105	40.1910	79.5760	76.0	2.0	400.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	106	S106	40.1910	79.5760	76.0	1.0	415.0	1.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	107	S107	40.1910	79.5760	76.0	1.0	415.0	1.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	110	S110	40.1910	79.5760	37.0	2.0	442.0	6.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	113	S113	40.1910	79.5760	68.0	4.0	415.0	3.00	0.00
Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	32	S02	40.3280	79.3590	75.0	2.0	250.0	1.00	0.00
Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	101	S01A	40.3280	79.3590	36.0	2.0	300.0	1.00	0.00
Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	107	S07	40.3280	79.3590	36.0	2.0	300.0	1.00	0.00
Westmoreland	CK COMPOSITES INC/MT PLEASANT	31	S031	40.1300	79.5340	41.0	2.0	425.0	1.00	0.00
Westmoreland	COLUMBIA GAS TRANS C/DELMONT COMPRESSOR	101	S01	40.3870	79.5640	27.0	1.0	745.0	1.00	0.00
Westmoreland	DOMINION PEOPLES/LATROBE STATION	101	S01	40.3070	79.4370	27.0	1.0	745.0	31.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	101	S01	40.3000	79.6190	30.0	2.0	680.0	19.00	0.00
Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	104	S04	40.3000	79.6190	30.0	2.0	680.0	4.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	31	S13	40.4030	79.5590	32.0	2.0	450.0	7.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	32	S14	40.4030	79.5590	32.0	2.0	450.0	7.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	101	S01	40.4030	79.5590	29.0	2.0	600.0	100.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	102	S02	40.4030	79.5590	29.0	2.0	600.0	59.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	103	S03	40.4030	79.5590	29.0	2.0	600.0	72.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	104	S04	40.4030	79.5590	29.0	2.0	600.0	87.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	105	S05	40.4030	79.5590	29.0	2.0	600.0	66.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	106	S06	40.4030	79.5590	29.0	2.0	600.0	21.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	107	S07	40.4030	79.5590	29.0	2.0	600.0	69.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	108	S08	40.4030	79.5590	29.0	2.0	600.0	39.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	109	S09	40.4030	79.5590	29.0	2.0	600.0	20.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	110	S10	40.4030	79.5590	29.0	2.0	600.0	27.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	111	S11	40.4030	79.5590	29.0	2.0	600.0	16.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	112	S12	40.4030	79.5590	29.0	2.0	600.0	21.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	113	S15	40.4030	79.5590	15.0	2.0	300.0	1.00	0.00
Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	101	S01	40.3840	79.5480	49.0	5.0	750.0	140.00	0.00
Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	102	S02	40.3840	79.5480	49.0	5.0	750.0	101.00	0.00
Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	103	S05	40.3840	79.5480	36.0	2.0	692.0	1.00	0.00
Westmoreland	DOMINION TRANS INC/TONKIN STA	102	S02	40.4620	79.6370	27.0	1.0	745.0	39.00	0.00
Westmoreland	DURA BOND IND INC/EXPORT STEEL PLT	101SA	S01	40.4260	79.6270	30.0	1.0	70.0	1.00	0.00
Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	111	S111	40.0990	79.5860	41.0	2.0	425.0	3.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	31	S02	40.3360	79.6110	68.0	3.0	1500.0	1.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	34	Z03	40.3360	79.6110	35.0	0.0	72.0	1.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	36	S03	40.3360	79.6110	68.0	3.0	1500.0	6.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	101	Z01	40.3360	79.6110	35.0	0.0	72.0	12.00	0.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	101	S02	40.1250	79.5860	50.0	11.0	1500.0	13.00	1.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	101	Z05	40.1250	79.5860	1.0	0.0	72.0	4.00	0.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	104	S02	40.1250	79.5860	50.0	11.0	1500.0	5.00	2.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	104	S02	40.1250	79.5860	50.0	11.0	1500.0	6.00	2.00
Westmoreland	HUNTINGTON FOAM PITT/MT PLEASANT	31	S031	40.1490	79.6030	68.0	4.0	415.0	1.00	0.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	32	S11	40.1620	79.8990	126.0	6.0	325.0	1.00	0.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	32	S11	40.1620	79.8990	126.0	6.0	325.0	54.00	72.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	802	Z06	40.1620	79.8990	25.0	0.0	72.0	1.00	6.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	802	S02	40.1620	79.8990	100.0	5.0	240.0	1.00	6.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	805	S06	40.1620	79.8990	261.0	8.0	600.0	364.00	114.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	806	Z07	40.1620	79.8990	25.0	0.0	72.0	0.00	10.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	808	Z06	40.1620	79.8990	25.0	0.0	72.0	0.00	25.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	809	S09	40.1620	79.8990	400.0	2.0	350.0	22.00	58.00
Westmoreland	LATROBE AREA HOSP/LATROBE	31	S031	40.3220	79.3920	110.0	4.0	500.0	5.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	LATROBE AREA HOSP/LATROBE	32	S031	40.3220	79.3920	110.0	4.0	500.0	1.00	0.00
Westmoreland	LATROBE BREWING CO/LATROBE	31	S31	40.3210	79.3890	58.0	3.0	436.0	3.00	0.00
Westmoreland	NATL ROLL CO/AVONMORE	31	S03	40.5310	79.4690	35.0	1.0	800.0	10.00	0.00
Westmoreland	NATL ROLL CO/AVONMORE	101	S01	40.5310	79.4690	40.0	4.0	70.0	1.00	1.00
Westmoreland	NATL ROLL CO/AVONMORE	105	S07	40.5310	79.4690	35.0	1.0	88.0	1.00	0.00
Westmoreland	NATL ROLL CO/AVONMORE	110	Z10	40.5310	79.4690	1.0	0.0	72.0	6.00	0.00
Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	31	S02	40.3240	79.6190	58.0	3.0	436.0	1.00	0.00
Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	32	S03	40.3240	79.6190	58.0	3.0	436.0	1.00	0.00
Westmoreland	PA DPW/TORRANCE STATE HOSP	31	S01	40.3980	79.2590	65.0	5.0	350.0	4.00	13.00
Westmoreland	PA DPW/TORRANCE STATE HOSP	32	S02	40.3980	79.2590	250.0	12.0	300.0	25.00	86.00
Westmoreland	PA DPW/TORRANCE STATE HOSP	34	S02	40.3980	79.2590	250.0	12.0	300.0	7.00	25.00
Westmoreland	POLY HI SOLIDUR INC/DELMONT PLT	31	S01	40.4250	79.5740	58.0	3.0	436.0	4.00	0.00
Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	104	S02	40.1630	79.6640	35.0	3.0	442.0	2.00	0.00
Westmoreland	SONY CHEM CORP OF AM/PGH MFG CTR	101	S01	40.1870	79.5750	31.0	5.0	750.0	2.00	0.00
Westmoreland	SONY CHEM CORP OF AM/PGH MFG CTR	101	S01	40.1870	79.5750	31.0	5.0	750.0	2.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	31	S031	40.1870	79.5770	40.0	2.0	635.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	33	S033	40.1870	79.5770	43.0	3.0	425.0	2.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	34	S034	40.1870	79.5770	43.0	3.0	425.0	4.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	47	S047	40.1870	79.5770	41.0	3.0	400.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	51	S051	40.1870	79.5770	35.0	1.0	425.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	122	S036	40.1870	79.5770	37.0	2.0	442.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	123	S037	40.1870	79.5770	31.0	1.0	442.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	127	S040	40.1870	79.5770	40.0	4.0	260.0	2.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	128	S041	40.1870	79.5770	43.0	2.0	260.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	129	S042	40.1870	79.5770	42.0	1.0	425.0	2.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	132	S048	40.1870	79.5770	40.0	2.0	400.0	2.00	0.00
Westmoreland	ST GEORGE CRYSTAL LTD/JEANNETTE	101	S01	40.3280	79.6040	50.0	2.0	400.0	26.00	20.00
Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	31	S031	40.2950	79.3960	58.0	3.0	436.0	6.00	12.00
Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	32	S031	40.2950	79.3960	58.0	3.0	436.0	5.00	10.00
Westmoreland	STD STEEL/LATROBE	31	S04	40.3080	79.3810	200.0	10.0	325.0	4.00	0.00
Westmoreland	STD STEEL/LATROBE	33	S04	40.3080	79.3810	200.0	10.0	325.0	4.00	0.00
Westmoreland	STD STEEL/LATROBE	101	S01	40.3080	79.3810	85.0	12.0	171.0	6.00	1.00
Westmoreland	STD STEEL/LATROBE	105	Z05	40.3080	79.3810	1.0	0.0	72.0	5.00	0.00
Westmoreland	STD STEEL/LATROBE	106	S06	40.3080	79.3810	37.0	2.0	430.0	13.00	0.00
Westmoreland	STD STEEL/LATROBE	107	S07	40.3080	79.3810	34.0	2.0	205.0	1.00	0.00
Westmoreland	STD STEEL/LATROBE	109	S09	40.3080	79.3810	37.0	2.0	430.0	1.00	0.00
Westmoreland	SUNOCO PARTNERS M&T/DELMONT FACILITY	101	S03	40.4290	79.5740	25.0	3.0	294.0	0.00	3.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	102	S02	40.6380	79.5320	40.0	5.0	693.0	142.00	1.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	104	S04	40.6380	79.5320	56.0	1.0	960.0	7.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	105	S05	40.6380	79.5320	56.0	1.0	960.0	3.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	106	S06	40.6380	79.5320	56.0	1.0	960.0	4.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	TEXAS EASTERN TRANS /DELMONT	107	S07	40.6380	79.5320	56.0	1.0	960.0	3.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	108	S08	40.6380	79.5320	56.0	1.0	960.0	4.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	109	S09	40.6380	79.5320	56.0	1.0	960.0	3.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	110	S10	40.6380	79.5320	27.0	1.0	745.0	8.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	111	S11	40.6380	79.5320	27.0	1.0	745.0	8.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	112	S12	40.6380	79.5320	27.0	1.0	745.0	7.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	113	S13	40.6380	79.5320	27.0	1.0	745.0	4.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	118	S118	40.6380	79.5320	40.0	5.0	693.0	21.00	1.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	31	S31	40.3040	79.3710	40.0	5.0	436.0	4.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	43	S43	40.3040	79.3710	37.0	2.0	430.0	2.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	101	S56	40.3040	79.3710	75.0	10.0	200.0	12.00	16.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	102	S03	40.3040	79.3710	50.0	6.0	100.0	5.00	16.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	115	S32	40.3040	79.3710	1.0	0.0	72.0	6.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	116	S44	40.3040	79.3710	12.0	1.0	400.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	117	S45	40.3040	79.3710	12.0	1.0	400.0	3.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	118	S33	40.3040	79.3710	1.0	0.0	72.0	24.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	120	S47	40.3040	79.3710	12.0	1.0	400.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	121	S48	40.3040	79.3710	12.0	1.0	400.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	122	S34	40.3040	79.3710	1.0	0.0	72.0	11.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	123	S35	40.3040	79.3710	51.0	3.0	357.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	125	S37	40.3040	79.3710	51.0	3.0	357.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	126	S38	40.3040	79.3710	1.0	0.0	72.0	5.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	128	S40	40.3040	79.3710	1.0	0.0	72.0	7.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	131	S42	40.3040	79.3710	51.0	3.0	357.0	3.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	132	S51	40.3040	79.3710	60.0	3.0	400.0	1.00	0.00
Westmoreland	USA VALLEY FAC INC/VALLEY LDFL	101	S01	40.3880	79.6740	35.0	10.0	1600.0	2.00	0.00
Westmoreland	WESTMORELAND WASTE LLC/SANITARY LDFL	101	S01	40.1430	79.8570	15.0	3.0	200.0	3.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	ALLEGHENY ASPHALT MFG. INC.	1	1	40.4313	-79.977	26.0	4.0	351.0	5.00	1.00
Allegheny	ALLEGHENY ASPHALT MFG. INC.	9	9999	40.4335	-79.9755	13.0	0.0	72.0	3.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	11B	14	40.4986	-80.2557	37.0	2.0	150.0	1.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B03	6	40.4967	-80.23	25.0	2.0	150.0	1.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B11	1	40.4969	-80.2555	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B12	2	40.4969	-80.2555	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B13	3	40.4969	-80.2555	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY AIRPORT AUTHORITY	B14	4	40.4969	-80.2555	35.0	4.0	510.0	2.00	0.00
Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	12	10	40.4756	-80.0441	300.0	8.0	110.0	5.00	18.00
Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	13	10	40.4756	-80.0441	300.0	8.0	110.0	1.00	5.00
Allegheny	ALLEGHENY COUNTY SANITARY AUTHORITY	19	19	40.4755	-80.0433	80.0	3.0	800.0	1.00	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	1	1	40.5441	-79.7672	75.0	9.0	816.0	15.00	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	1	1	40.5441	-79.7672	75.0	9.0	816.0	5.90	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	2	1	40.5441	-79.7672	75.0	9.0	816.0	6.15	0.00
Allegheny	ALLEGHENY ENERGY UNITS 1 & 2	3	2	40.5441	-79.7672	75.0	9.0	816.0	15.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	2	2	40.6183	-79.7174	92.0	4.0	200.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	4	3	40.6183	-79.7174	92.0	4.0	200.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	7	1	40.6183	-79.7174	149.0	10.0	140.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	8	9999	40.6167	-79.7292	50.0	3.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	9	9999	40.6167	-79.7292	65.0	4.0	72.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	10	9999	40.6167	-79.7292	50.0	3.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	11	9999	40.6167	-79.7292	50.0	3.0	72.0	2.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	12	51	40.6085	-79.727	84.0	17.0	200.0	20.00	3.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	13	52	40.6085	-79.727	84.0	17.0	200.0	20.00	3.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	15	53	40.6085	-79.727	75.0	14.0	200.0	11.00	2.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	16	54	40.6085	-79.727	75.0	14.0	200.0	11.00	2.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	18	49	40.6183	-79.7179	75.0	10.0	200.0	35.00	30.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	19	9999	40.6167	-79.7292	65.0	4.0	72.0	5.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	20	9999	40.6167	-79.7292	65.0	4.0	72.0	4.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	21	9999	40.6167	-79.7292	50.0	3.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	22	9999	40.6167	-79.7292	65.0	4.0	72.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	23	9999	40.6167	-79.7292	50.0	3.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	24	9999	40.6167	-79.7292	50.0	3.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	25	9999	40.6167	-79.7292	50.0	3.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	27	9999	40.6167	-79.7292	50.0	3.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	16	40.6059	-79.7318	125.0	4.0	1000.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	17	40.605	-79.733	125.0	6.0	1000.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	18	40.605	-79.733	125.0	6.0	1000.0	6.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	19	40.605	-79.733	125.0	6.0	1000.0	5.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	28	22	40.6058	-79.7294	125.0	6.0	1000.0	2.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	29	20	40.6059	-79.7306	125.0	4.0	1000.0	2.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	29	21	40.6059	-79.7306	125.0	6.0	1000.0	2.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	30	23	40.6059	-79.7306	125.0	8.0	1000.0	63.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	31	24	40.6059	-79.7318	125.0	5.0	1000.0	30.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	36	9999	40.6167	-79.7292	111.0	4.0	72.0	14.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	37	9999	40.6167	-79.7292	50.0	3.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	39	9999	40.6167	-79.7292	111.0	4.0	72.0	15.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	40	9999	40.6167	-79.7292	50.0	3.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	41	9999	40.6167	-79.7292	50.0	3.0	72.0	1.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	45	9999	40.6167	-79.7292	73.0	4.0	72.0	45.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	46	59	40.6077	-79.7318	8.0	6.0	2050.0	7.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	47	9999	40.6167	-79.7292	111.0	4.0	72.0	3.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	54	39	40.6068	-79.7389	20.0	7.0	350.0	11.00	0.00
Allegheny	ALLEGHENY LUDLUM CORP - BRACKENRIDGE	55	9999	40.6167	-79.7292	50.0	3.0	72.0	4.00	0.00
Allegheny	ALLEGHENY VALLEY HOSPITAL	7	2	40.6189	-79.738	30.0	2.0	410.0	2.00	6.00
Allegheny	AMERICAN BRIDGE MANUFACTURING	F01	9999	40.5246	-80.1724	29.0	1.0	72.0	2.00	0.00
Allegheny	AMG RESOURCES CORPORATION	5	9999	40.5104	-80.1172	13.0	0.0	72.0	1.00	0.00
Allegheny	ARROW CONCRETE COMPANY	11	4	40.431	-79.9956	57.0	1.0	500.0	3.00	0.00
Allegheny	ARROW CONCRETE COMPANY	13	9999	40.431	-79.9956	13.0	0.0	72.0	2.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	2	7	40.5002	-80.0831	110.0	4.0	1450.0	16.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	3	8	40.4957	-80.0796	39.0	2.0	515.0	31.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	4	9	40.4957	-80.0796	39.0	2.0	514.0	1.00	0.00
Allegheny	ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	5	10	40.5002	-80.0831	28.0	2.0	500.0	2.00	0.00
Allegheny	BAKE- LINE GROUP LLC	B1G	20	40.4568	-79.9156	141.0	7.0	450.0	2.00	0.00
Allegheny	BAKE- LINE GROUP LLC	B2G	20	40.4568	-79.9156	141.0	7.0	450.0	2.00	0.00
Allegheny	BAKERSTOWN CONTAINER CORPORATION	P06	9	40.6539	-79.9355	34.0	12.0	290.0	1.00	0.00
Allegheny	BARBER SPRING	1	1	40.4836	-79.9556	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	1	1	40.4836	-79.9556	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	2	2	40.4836	-79.9556	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	3	3	40.4836	-79.9556	55.0	4.0	70.0	1.00	0.00
Allegheny	BARBER SPRING	32	9999	40.4836	-79.9556	29.0	2.0	72.0	1.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	1	1	40.4563	-79.949	194.0	9.0	558.0	36.00	230.00
Allegheny	BELLEFIELD BOILER PLANT	2	1	40.4563	-79.949	194.0	9.0	558.0	14.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	3	1	40.4563	-79.949	194.0	9.0	558.0	6.00	24.00
Allegheny	BELLEFIELD BOILER PLANT	4	2	40.4418	-79.9491	256.0	11.0	309.0	60.00	241.00
Allegheny	BELLEFIELD BOILER PLANT	5	2	40.4418	-79.9491	256.0	11.0	309.0	13.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	8	2	40.4418	-79.9491	256.0	11.0	309.0	35.00	227.00
Allegheny	BELLEFIELD BOILER PLANT	9	2	40.4418	-79.9491	256.0	11.0	309.0	11.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	10	2	40.4418	-79.9491	256.0	11.0	309.0	27.00	0.00
Allegheny	BELLEFIELD BOILER PLANT	12	2	40.4418	-79.9491	256.0	11.0	309.0	3.00	0.00
Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	3	4	40.3946	-80.1788	40.0	0.0	680.0	1.00	0.00
Allegheny	BEST FEEDS & FARM SUPPLIES, INC.	3	5	40.3946	-80.1788	25.0	1.0	680.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	BETTIS ATOMIC POWER LABORATORY	B3G	3	40.3616	-79.8989	29.0	2.0	338.0	1.00	0.00
Allegheny	BETTIS ATOMIC POWER LABORATORY	RV1	9999	40.3616	-79.8989	29.0	2.0	72.0	1.00	0.00
Allegheny	BETTIS ATOMIC POWER LABORATORY	SCG	9999	40.3616	-79.8989	52.0	2.0	72.0	3.00	0.00
Allegheny	BETTIS ATOMIC POWER LABORATORY	VHG	5	40.3603	-79.8986	69.0	5.0	700.0	1.00	0.00
Allegheny	BFI - IMPERIAL LANDFILL	1	1	40.4484	-80.2748	60.0	12.0	1600.0	14.00	7.00
Allegheny	BFI - IMPERIAL LANDFILL	8	9999	40.4475	-80.2748	29.0	1.0	72.0	49.00	13.00
Allegheny	BOX USA	4	2	40.496	-79.9109	148.0	8.0	325.0	2.00	0.00
Allegheny	BRADDOCK RECOVERY, INC.	2	1	40.3911	-79.852	39.0	3.0	201.0	2.00	1.00
Allegheny	BUCKEYE CORAOPOLIS PIPELINE FACILITY	3	9999	40.5261	-80.1807	20.0	2.0	72.0	4.00	0.00
Allegheny	CALGON CARBON CORPORATION	1	1	40.4938	-80.0781	79.0	4.0	425.0	4.00	0.00
Allegheny	CALGON CARBON CORPORATION	2	4	40.4939	-80.0796	50.0	2.0	250.0	1.00	0.00
Allegheny	CALGON CARBON CORPORATION	5	13	40.4938	-80.0779	62.0	3.0	1929.0	0.00	3.00
Allegheny	CALGON CARBON CORPORATION	8	19	40.4939	-80.0796	72.0	3.0	163.0	2.00	0.00
Allegheny	CARGILL, INC. - SALT DIVISION	2	9999	40.4838	-80.0621	13.0	0.0	72.0	1.00	0.00
Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	1	1	40.3048	-79.9764	151.0	7.0	350.0	20.00	77.00
Allegheny	CDC, NIOSH, PITTSBURGH RESEARCH LAB.	8	9999	40.3056	-79.9775	29.0	1.0	72.0	1.00	0.00
Allegheny	CHAMBERS DEVELOPMENT CO., INC.	1	1	40.4074	-79.7944	30.0	11.0	1650.0	13.00	3.00
Allegheny	CHAMBERS DEVELOPMENT CO., INC.	8	9999	40.4074	-79.7944	29.0	1.0	72.0	35.00	10.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	1	1	40.4497	-79.967	65.0	4.0	314.0	2.00	0.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	2	1	40.4497	-79.967	65.0	4.0	314.0	2.00	0.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	3	1	40.4497	-79.967	65.0	4.0	314.0	2.00	0.00
Allegheny	CHILDRENS HOSPITAL OF PITTSBURGH	4	1	40.4497	-79.967	65.0	4.0	314.0	2.00	0.00
Allegheny	CLAIRTON SLAG, INC.	1	1	40.2697	-79.898	16.0	5.0	250.0	1.00	0.00
Allegheny	CLAIRTON SLAG, INC.	1	1	40.2697	-79.898	16.0	5.0	250.0	0.00	2.00
Allegheny	CLAIRTON SLAG, INC.	16	9999	40.2697	-79.898	29.0	1.0	72.0	15.00	1.00
Allegheny	CP INDUSTRIES	P05	5	40.3351	-79.8534	65.0	4.0	1600.0	1.00	0.00
Allegheny	CREIGHTON STATION	2	2	40.5828	-79.7778	20.0	2.0	600.0	1.00	0.00
Allegheny	DICE COMPRESSOR STATION	0.00E+00	1	40.4623	-79.7038	15.0	1.0	420.0	6.00	0.00
Allegheny	DICE COMPRESSOR STATION	0.00E+00	2	40.4623	-79.7038	15.0	1.0	420.0	6.00	0.00
Allegheny	DICE COMPRESSOR STATION	0.00E+00	3	40.4623	-79.7038	15.0	1.0	420.0	9.00	0.00
Allegheny	DLM FOODS	1	1	40.4554	-79.9896	249.0	10.0	390.0	69.00	210.00
Allegheny	DLM FOODS	2	1	40.4554	-79.9896	249.0	10.0	390.0	2.00	0.00
Allegheny	DLM FOODS	3	1	40.4554	-79.9896	249.0	10.0	390.0	66.00	202.00
Allegheny	DLM FOODS	5	2	40.4556	-79.9893	249.0	10.0	250.0	49.00	123.00
Allegheny	DLM FOODS	6	2	40.4556	-79.9893	249.0	10.0	250.0	1.00	0.00
Allegheny	DLM FOODS	7	2	40.4556	-79.9893	249.0	10.0	250.0	39.00	99.00
Allegheny	DLM FOODS	8	2	40.4556	-79.9893	249.0	10.0	250.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	7	9999	40.4364	-79.9932	29.0	2.0	72.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	8	9999	40.4364	-79.9932	29.0	2.0	72.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	B01	1	40.4364	-79.9932	82.0	6.0	360.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	B02	2	40.4364	-79.9932	82.0	6.0	360.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	DUQUESNE UNIVERSITY	B03	3	40.4364	-79.9932	82.0	6.0	360.0	1.00	0.00
Allegheny	DUQUESNE UNIVERSITY	T05	5	40.4361	-79.9931	152.0	4.0	350.0	21.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	8	143	40.2635	-79.9052	46.0	2.0	667.0	2.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	9	143	40.2635	-79.9052	46.0	2.0	667.0	9.00	2.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	10	144	40.2636	-79.9051	72.0	3.0	446.0	1.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	11	144	40.2636	-79.9051	72.0	3.0	446.0	13.00	3.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	15	56	40.2635	-79.9052	20.0	1.0	650.0	3.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	19	106	40.2635	-79.9052	20.0	1.0	1000.0	2.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	19	107	40.2635	-79.9052	20.0	1.0	650.0	1.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	24	9999	40.2635	-79.9052	29.0	2.0	72.0	3.00	0.00
Allegheny	EASTMAN CHEMICAL RESINS, INC.	26	292	40.2635	-79.9052	25.0	2.0	650.0	2.00	0.00
Allegheny	FOX CHAPEL SENIOR HIGH SCHOOL	1	1	40.5172	-79.8704	20.0	7.0	500.0	1.00	0.00
Allegheny	GALVTECH	1	1	40.3926	-79.9326	75.0	5.0	500.0	27.00	0.00
Allegheny	GALVTECH	1	1	40.3926	-79.9326	75.0	5.0	500.0	9.00	0.00
Allegheny	GALVTECH	1	3	40.3917	-79.9326	60.0	0.0	200.0	1.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	3	9999	40.3661	-80.0967	89.0	4.0	72.0	17.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	4	503	40.3661	-80.1026	89.0	4.0	430.0	1.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	8	507	40.3661	-80.1026	89.0	4.0	430.0	14.00	0.00
Allegheny	GE CONSUMER PRODUCTS, LIGHTING	9	9999	40.3661	-80.0967	53.0	3.0	72.0	1.00	0.00
Allegheny	GENERAL MOTORS PITTSBURGH PLANT	2	2	40.3439	-79.9044	46.0	2.0	437.0	2.00	0.00
Allegheny	GENERAL MOTORS PITTSBURGH PLANT	5	5	40.3437	-79.9027	20.0	1.0	250.0	3.00	1.00
Allegheny	GENERAL MOTORS PITTSBURGH PLANT	17	9999	40.3355	-79.9017	29.0	2.0	72.0	1.00	0.00
Allegheny	GENERIC UNIT	GGT42	41	40.4358	-80.0271	62.0	10.0	585.0	2.45	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	B01	9999	40.5207	-79.9518	52.0	2.0	72.0	4.00	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P01	1	40.5207	-79.9518	135.0	5.0	1087.0	15.00	76.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P02	2	40.5207	-79.9518	135.0	5.0	1087.0	18.00	32.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P04	4	40.5205	-79.9517	64.0	5.0	427.0	12.00	30.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P13	9	40.5207	-79.9506	139.0	1.0	197.0	1.00	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P14	10	40.5207	-79.9518	139.0	1.0	197.0	1.00	0.00
Allegheny	GLENSHAW GLASS COMPANY, INC.	P16	12	40.5207	-79.9506	139.0	1.0	197.0	1.00	0.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	2	1	40.2555	-79.9159	82.0	9.0	504.0	46.00	33.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	2	2	40.2555	-79.9159	100.0	7.0	539.0	160.00	83.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	4	9999	40.2555	-79.9159	50.0	3.0	72.0	1.00	0.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	6	9999	40.2555	-79.9159	30.0	2.0	72.0	0.00	7.00
Allegheny	GUARDIAN INDUSTRIES CORP. FLOREFFE	12	9999	40.2555	-79.9159	34.0	2.0	72.0	2.00	0.00
Allegheny	GULF OIL LIMITED PARTNERSHIP NEVILLE IS	21	9999	40.4428	-79.9594	13.0	0.0	72.0	2.00	0.00
Allegheny	HEIGHTS PLAZA MATERIALS, INC	5	9999	40.4428	-79.9594	29.0	2.0	72.0	1.00	0.00
Allegheny	HEIGHTS PLAZA MATERIALS, INC	6	9999	40.4428	-79.9594	29.0	2.0	72.0	6.00	0.00
Allegheny	HUSSEY COPPER LTD.	1	1	40.5733	-80.2227	45.0	7.0	276.0	10.00	0.00
Allegheny	HUSSEY COPPER LTD.	6	5	40.5724	-80.2215	45.0	1.0	900.0	1.00	0.00
Allegheny	HUSSEY COPPER LTD.	7	6	40.5733	-80.2215	60.0	1.0	800.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	HUSSEY COPPER LTD.	8	7	40.5742	-80.2227	12.0	3.0	1500.0	5.00	0.00
Allegheny	HUSSEY COPPER LTD.	11	10	40.5733	-80.2215	10.0	1.0	500.0	1.00	0.00
Allegheny	HUSSEY COPPER LTD.	12	11	40.5733	-80.2215	10.0	1.0	500.0	1.00	0.00
Allegheny	HUSSEY COPPER LTD.	13	12	40.5733	-80.2215	10.0	1.0	500.0	1.00	0.00
Allegheny	HUSSEY COPPER LTD.	14	13	40.5733	-80.2215	10.0	1.0	500.0	1.00	0.00
Allegheny	HUSSEY COPPER LTD.	28	9999	40.5733	-80.2227	50.0	3.0	72.0	2.00	0.00
Allegheny	IA CONSTRUCTION GIBSONIA	1	1	40.6209	-79.8746	35.0	4.0	300.0	1.00	0.00
Allegheny	IA CONSTRUCTION GIBSONIA	2	2	40.6209	-79.8746	12.0	2.0	400.0	0.00	1.00
Allegheny	IA CONSTRUCTION GIBSONIA	9	9999	40.6209	-79.8746	13.0	0.0	72.0	1.00	0.00
Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	1	1	40.3173	-80.0773	96.0	11.0	500.0	2.00	0.00
Allegheny	JEFFERSON REGIONAL MEDICAL CENTER	1	1	40.3173	-80.0773	96.0	11.0	500.0	1.00	0.00
Allegheny	KELLY RUN SANITATION	1	9999	40.2533	-79.8713	29.0	1.0	72.0	10.00	1.00
Allegheny	KELLY RUN SANITATION	5	2	40.2498	-79.8819	31.0	7.0	1630.0	5.00	0.00
Allegheny	KINDER MORGAN INDIANOLA PLANT	104	2	40.5712	-79.8636	10.0	1.0	601.0	6.00	0.00
Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	1	1	40.3543	-79.8802	12.0	3.0	1600.0	1.00	0.00
Allegheny	KINDER-MORGAN LIQUIDS TERMINAL LLC	1	1	40.3543	-79.8802	12.0	3.0	1600.0	6.00	4.00
Allegheny	LOZIER CORPORATION	2	9999	40.377	-80	78.0	4.0	72.0	1.00	0.00
Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	1	1	40.3496	-79.8843	16.0	3.0	225.0	1.00	0.00
Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	3	3	40.3525	-79.8814	14.0	1.0	500.0	1.00	0.00
Allegheny	MARSH ASPHALT, INC. - DRAVOSBURG PLANT	4	9999	40.3525	-79.8814	29.0	1.0	72.0	1.00	0.00
Allegheny	MAYVIEW STATE HOSPITAL	12	1	40.325	-80.1083	69.0	5.0	450.0	4.00	0.00
Allegheny	MAYVIEW STATE HOSPITAL	12	2	40.325	-80.1083	69.0	5.0	450.0	2.00	0.00
Allegheny	MAYVIEW STATE HOSPITAL	12	2	40.325	-80.1083	69.0	5.0	450.0	2.00	0.00
Allegheny	MCCONWAY & TORLEY CORPORATION	1	10	40.4785	-79.9654	28.0	5.0	275.0	2.00	2.00
Allegheny	MCCONWAY & TORLEY CORPORATION	5	9999	40.4785	-79.9642	52.0	2.0	72.0	4.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	1	3	40.4784	-80.061	80.0	4.0	400.0	3.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	1	9999	40.4757	-80.061	39.0	2.0	72.0	2.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	1	9999	40.4757	-80.061	33.0	1.0	72.0	1.00	0.00
Allegheny	MCKEES ROCKS FORGINGS	2	1	40.4775	-80.0598	20.0	5.0	700.0	3.00	0.00
Allegheny	MERCY HOSPITAL OF PITTSBURGH	1	1	40.4363	-79.9861	96.0	4.0	250.0	2.00	0.00
Allegheny	MERCY HOSPITAL OF PITTSBURGH	7	9999	40.4363	-79.9861	65.0	4.0	72.0	3.00	0.00
Allegheny	MERCY HOSPITAL OF PITTSBURGH	8	9999	40.4363	-79.9861	65.0	4.0	72.0	2.00	0.00
Allegheny	METALTECH	1	1	40.4362	-79.9696	66.0	4.0	350.0	9.00	0.00
Allegheny	METALTECH	1	1	40.4362	-79.9696	66.0	4.0	350.0	9.00	0.00
Allegheny	METALTECH	1	3	40.4371	-79.9696	5.0	1.0	200.0	1.00	0.00
Allegheny	MOTIVA ENTERPRISES LLC	22	9999	40.528	-80.1819	61.0	4.0	72.0	3.00	0.00
Allegheny	MT. LEBANON HIGH SCHOOL	1	1	40.3756	-80.0506	60.0	3.0	250.0	1.00	0.00
Allegheny	MT. LEBANON HIGH SCHOOL	1	1	40.3756	-80.0506	60.0	3.0	250.0	1.00	0.00
Allegheny	MT. LEBANON HIGH SCHOOL	1	1	40.3756	-80.0506	60.0	3.0	250.0	1.00	0.00
Allegheny	NASH_ELMO INDUSTRIES, L.L.C.	B01	3	40.2785	-79.8767	25.0	1.0	550.0	1.00	0.00
Allegheny	NATIONAL ENERGY TECHNOLOGY LAB - PGH	1	1	40.3061	-79.9775	79.0	1.0	280.0	1.00	5.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	NEVILLE CHEMICAL COMPANY	4	4	40.5021	-80.0984	58.0	4.0	620.0	2.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	12	10	40.5021	-80.0984	44.0	2.0	646.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	15	12	40.5021	-80.0984	27.0	3.0	641.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	22	18	40.5021	-80.0984	36.0	2.0	625.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	24	23	40.5021	-80.0984	37.0	3.0	625.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	26	27	40.5021	-80.0984	51.0	2.0	626.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	29	29	40.5021	-80.0984	24.0	2.0	640.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	33	34	40.5021	-80.0984	54.0	4.0	520.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	35	35	40.5021	-80.0984	35.0	3.0	354.0	15.00	3.00
Allegheny	NEVILLE CHEMICAL COMPANY	37	36	40.5021	-80.0984	40.0	4.0	621.0	29.00	6.00
Allegheny	NEVILLE CHEMICAL COMPANY	39	9999	40.5021	-80.0984	29.0	1.0	72.0	2.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	71	16	40.5021	-80.0984	23.0	2.0	620.0	1.00	0.00
Allegheny	NEVILLE CHEMICAL COMPANY	72	16	40.5021	-80.0984	23.0	2.0	620.0	2.00	0.00
Allegheny	NEVILLE PULVERIZED LIME	7	9999	40.56	-80.2089	0.0	0.0	72.0	1.00	0.00
Allegheny	NEXTECH	1	1	40.4033	-79.8322	84.0	5.0	350.0	10.00	0.00
Allegheny	NEXTECH	1	1	40.4033	-79.8322	84.0	5.0	350.0	2.00	0.00
Allegheny	NEXTECH	1	2	40.4033	-79.8322	111.0	4.0	392.0	1.00	0.00
Allegheny	NRG ENERGY CENTER PITTSBURGH	1	1	40.4493	-80.0063	50.0	3.0	605.0	4.00	0.00
Allegheny	NRG ENERGY CENTER PITTSBURGH	3	2	40.4493	-80.0063	50.0	3.0	310.0	12.00	0.00
Allegheny	NRG ENERGY CENTER PITTSBURGH	5	3	40.4493	-80.0063	50.0	4.0	535.0	29.00	0.00
Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	1	1	40.4634	-80.0417	33.0	7.0	864.0	21.00	1.00
Allegheny	ORION POWER MIDWEST - BRUNOT ISLAND	4	2	40.4663	-80.0441	69.0	10.0	320.0	4.00	1.00
Allegheny	ORION POWER MIDWEST, CHESWICK STATION	1	1	40.5372	-79.7911	751.0	21.0	286.0	1170.33	4876.46
Allegheny	ORION POWER MIDWEST, CHESWICK STATION	3	2	40.5374	-79.7902	200.0	2.0	674.0	1.00	1.00
Allegheny	PARC TECHNICAL SERVICES, INC.	1	5	40.5456	-79.8286	30.0	0.0	500.0	2.00	0.00
Allegheny	PARC TECHNICAL SERVICES, INC.	3	6	40.5456	-79.8286	30.0	1.0	70.0	1.00	0.00
Allegheny	PITT PENN OIL COMPANY	F02	9999	40.5757	-79.7773	35.0	1.0	68.0	1.00	0.00
Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LT	D 001	1	40.4431	-80.0039	207.0	18.0	250.0	14.00	0.00
Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LT	D 003	1	40.4431	-80.0039	207.0	18.0	250.0	30.00	0.00
Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LT	D 005	1	40.4431	-80.0039	207.0	18.0	250.0	35.00	0.00
Allegheny	PITTSBURGH ALLEGHENY COUNTY THERMAL, LT	D 007	1	40.4431	-80.0039	207.0	18.0	250.0	15.00	0.00
Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	1	1	40.4608	-79.9663	210.0	8.0	401.0	14.00	40.00
Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	3	1	40.4608	-79.9663	210.0	8.0	401.0	13.00	39.00
Allegheny	PITTSBURGH BREWING CO. PITTSBURGH	5	1	40.4608	-79.9663	210.0	8.0	401.0	3.00	0.00
Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	R B03	5	40.4444	-79.7181	25.0	2.0	352.0	1.00	0.00
Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	R B04	6	40.4444	-79.7181	25.0	2.0	352.0	1.00	0.00
Allegheny	PPG INDUSTRIES - CHEMICALS TECHNICAL CT	R B05	7	40.4444	-79.7181	25.0	2.0	352.0	1.00	0.00
Allegheny	PPG INDUSTRIES -- PPG PLACE	EG-1	41	40.4358	-80.0271	62.0	10.0	585.0	0.03	0.00
Allegheny	PPG INDUSTRIES -- PPG PLACE	EG-2	41	40.4358	-80.0271	62.0	10.0	585.0	0.03	0.00
Allegheny	PPG INDUSTRIES -- PPG PLACE	EG-3	41	40.4358	-80.0271	62.0	10.0	585.0	0.02	0.00
Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	1	1	40.5371	-79.7867	43.0	2.0	399.0	0.00	2.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	05A	9999	40.5371	-79.7867	65.0	4.0	72.0	3.00	0.00
Allegheny	PPG INDUSTRIES, INC. SPRINGDALE	06A	9999	40.5371	-79.7867	65.0	4.0	72.0	3.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	S 001	9999	40.3269	-79.843	47.0	3.0	72.0	2.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	S 002	4	40.3269	-79.843	45.0	5.0	1400.0	1.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	S 002	4	40.3269	-79.843	45.0	5.0	1400.0	3.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	S 002	14	40.3269	-79.843	45.0	5.0	1300.0	1.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	S 002	14	40.3269	-79.843	45.0	5.0	1300.0	2.00	0.00
Allegheny	PRECOAT METALS, A DIV. OF SEQUA COATING	S 005	9999	40.3269	-79.843	50.0	3.0	72.0	1.00	0.00
Allegheny	PRESSURE CHEMICAL COMPANY	2	4	40.4623	-79.9692	35.0	1.0	70.0	1.00	0.00
Allegheny	RANBAR TECHNOLOGY INC.	1	1	40.5207	-79.9482	20.0	2.0	500.0	1.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	1	9999	40.5584	-79.8413	29.0	1.0	72.0	3.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	6	5	40.5584	-79.8413	51.0	4.0	180.0	5.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	7	9999	40.5584	-79.8413	41.0	3.0	72.0	21.00	0.00
Allegheny	REDLAND BRICK INC. - HARMAR PLANT	7	9999	40.5584	-79.8413	41.0	3.0	72.0	2.00	3.00
Allegheny	REICHHOLD, INC.	1	7	40.36	-80.1239	75.0	3.0	429.0	10.00	0.00
Allegheny	REICHHOLD, INC.	9	3	40.36	-80.1239	51.0	7.0	750.0	2.00	0.00
Allegheny	REICHHOLD, INC.	14	4	40.36	-80.1239	36.0	3.0	260.0	1.00	0.00
Allegheny	SHENANGO INC.	5	33	40.4973	-80.077	125.0	10.0	670.0	31.00	0.00
Allegheny	SHENANGO INC.	6	33	40.4973	-80.077	125.0	10.0	670.0	50.00	71.00
Allegheny	SHENANGO INC.	7	33	40.4973	-80.077	125.0	10.0	670.0	0.00	1.00
Allegheny	SHENANGO INC.	8	34	40.4967	-80.0764	112.0	10.0	400.0	5.00	0.00
Allegheny	SHENANGO INC.	9	34	40.4967	-80.0764	112.0	10.0	400.0	47.00	43.00
Allegheny	SHENANGO INC.	11	9999	40.4929	-80.0773	174.0	7.0	72.0	0.00	4.00
Allegheny	SHENANGO INC.	12	4	40.4992	-80.0807	250.0	9.0	603.0	303.00	120.00
Allegheny	SHENANGO INC.	14	43	40.493	-80.0796	150.0	10.0	70.0	5.00	23.00
Allegheny	SHENANGO INC.	16	17	40.4929	-80.0773	56.0	15.0	150.0	0.00	1.00
Allegheny	SHENANGO INC.	30	42	40.493	-80.0796	70.0	3.0	592.0	0.00	3.00
Allegheny	SHENANGO INC.	31	41	40.493	-80.0796	100.0	2.0	592.0	2.00	4.00
Allegheny	SHENANGO INC.	35	9999	40.4929	-80.0773	29.0	1.0	72.0	16.00	1.00
Allegheny	SHENANGO -- NEVILLE ISLAND COKE WORKS	2WH	41	40.4358	-80.0271	371.0	5.5	122.0	83.62	0.00
Allegheny	SHENANGO -- NEVILLE ISLAND COKE WORKS	3GE	41	40.4358	-80.0271	371.0	5.5	122.0	105.36	0.00
Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	2	1	40.471	-80.0422	175.0	8.0	600.0	6.00	23.00
Allegheny	STATE CORRECTIONAL INSTITUTION -- PGH.	4	1	40.471	-80.0422	175.0	8.0	600.0	2.00	0.00
Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	2	1	40.3734	-80.1143	34.0	3.0	200.0	1.00	0.00
Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	3	1	40.3734	-80.1143	34.0	3.0	200.0	23.00	23.00
Allegheny	THE LANE CONSTRUCTION BRIDGEVILLE	4	1	40.3734	-80.1143	34.0	3.0	200.0	3.00	7.00
Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	1	1	40.472	-80.0493	33.0	4.0	220.0	1.00	0.00
Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	2	1	40.472	-80.0493	33.0	4.0	220.0	28.00	15.00
Allegheny	THE LANE MCKEES ROCK ASPHALT PLANT	3	1	40.472	-80.0493	33.0	4.0	220.0	0.00	9.00
Allegheny	TRUMBULL CORPORATION	8	1	40.5105	-80.1384	35.0	4.0	350.0	5.00	1.00
Allegheny	TRUMBULL CORPORATION	13	9999	40.5105	-80.1384	13.0	0.0	72.0	5.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	UNION ELECTRIC STEEL CORPORATION	B01	3	40.4155	-80.0783	30.0	3.0	70.0	1.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	P02	3	40.4155	-80.0783	30.0	3.0	70.0	1.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	P03	3	40.4155	-80.0783	30.0	3.0	70.0	1.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	P04	3	40.4155	-80.0783	30.0	3.0	70.0	1.00	0.00
Allegheny	UNION ELECTRIC STEEL CORPORATION	P05	3	40.4155	-80.0783	30.0	3.0	70.0	4.00	0.00
Allegheny	UNITED REFINING CO.SPRINGDALE ASPHALT T	E 002	1	40.574	-79.777	23.0	2.0	435.0	1.00	0.00
Allegheny	UNITED STATES STEEL -- MON VALLEY WORKS	GEN1	41	40.3925	-79.8564	371.0	5.5	122.0	413.86	0.00
Allegheny	UNITED STATES STEEL -- MON VALLEY WORKS	GEN2	41	40.3925	-79.8564	371.0	5.5	122.0	413.86	0.00
Allegheny	UNITED STATES STEEL -- MON VALLEY WORKS	GEN3	41	40.3925	-79.8564	371.0	5.5	122.0	41.80	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	C B01	1	40.5453	-79.8274	151.0	4.0	400.0	2.00	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	C B02	1	40.5453	-79.8274	151.0	4.0	400.0	2.00	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	C B03	1	40.5453	-79.8274	151.0	4.0	400.0	3.00	0.00
Allegheny	UNIV OF PITT APPLIED RESEARCH CTR- UPAR	C B04	1	40.5453	-79.8274	151.0	4.0	400.0	2.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	1	1	40.3615	-80.1086	69.0	15.0	103.0	2.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	3	9999	40.3571	-80.1086	43.0	2.0	72.0	1.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	11	9999	40.3571	-80.1086	111.0	4.0	72.0	14.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	12	9999	40.3571	-80.1086	111.0	4.0	72.0	9.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	18	9999	40.3571	-80.1086	50.0	3.0	72.0	1.00	0.00
Allegheny	UNIVERSAL STAINLESS & ALLOY PRODUCTS	V01	9999	40.3571	-80.1086	13.0	0.0	72.0	15.00	3.00
Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	B01	9999	40.4428	-79.9594	78.0	4.0	72.0	4.00	0.00
Allegheny	UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	DG1	9999	40.4428	-79.9594	29.0	1.0	72.0	1.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	1	1	40.4396	-79.9621	174.0	6.0	400.0	2.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	1	1	40.4396	-79.9621	174.0	6.0	400.0	2.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	1	1	40.4396	-79.9621	174.0	6.0	400.0	2.00	0.00
Allegheny	UPMC - OAKLAND CAMPUS	3	2	40.4426	-79.9611	189.0	3.0	590.0	1.00	1.00
Allegheny	UPMC MAGEE HOSPITAL	1	1	40.4358	-79.9614	121.0	3.0	450.0	2.00	0.00
Allegheny	UPMC MAGEE HOSPITAL	3	1	40.4358	-79.9614	121.0	3.0	450.0	2.00	0.00
Allegheny	UPMC MAGEE HOSPITAL	5	1	40.4358	-79.9614	121.0	3.0	450.0	2.00	0.00
Allegheny	UPMC MAGEE HOSPITAL	8	2	40.4361	-79.9613	40.0	3.0	644.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	1	1	40.3549	-79.8496	50.0	3.0	400.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	2	2	40.354	-79.8496	50.0	3.0	375.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	4	4	40.354	-79.8496	45.0	1.0	920.0	1.00	0.00
Allegheny	UPMC MCKEESPORT	5	5	40.3548	-79.8484	50.0	0.0	300.0	7.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4546	-79.9396	151.0	7.0	550.0	1.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4546	-79.9396	151.0	7.0	550.0	1.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4546	-79.9396	151.0	7.0	550.0	5.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4546	-79.9396	151.0	7.0	550.0	2.00	0.00
Allegheny	UPMC SHADYSIDE	1	6	40.4546	-79.9396	151.0	7.0	550.0	1.00	0.00
Allegheny	UPMC SHADYSIDE	7	9999	40.4549	-79.9481	37.0	1.0	72.0	2.00	0.00
Allegheny	UPMC SOUTHSIDE	1	1	40.4272	-79.978	112.0	2.0	350.0	1.00	0.00
Allegheny	UPMC SOUTHSIDE	1	2	40.4272	-79.978	112.0	2.0	350.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	US AIRWAYS MAINTENANCE BASE	16	16	40.504	-80.2341	30.0	1.0	70.0	2.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	29	29	40.504	-80.2341	35.0	2.0	350.0	1.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	30	30	40.504	-80.2341	35.0	2.0	350.0	1.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	107	107	40.504	-80.2341	32.0	1.0	100.0	1.00	0.00
Allegheny	US AIRWAYS MAINTENANCE BASE	111	111	40.504	-80.2341	70.0	1.0	100.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	1	1	40.3319	-79.9042	69.0	4.0	465.0	18.00	13.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	2	1	40.3319	-79.9042	69.0	4.0	465.0	4.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	3	2	40.335	-79.9039	75.0	4.0	465.0	16.00	12.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	4	2	40.335	-79.9039	75.0	4.0	465.0	4.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	5	3	40.3356	-79.9014	98.0	10.0	700.0	4.00	3.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	6	3	40.3356	-79.9014	98.0	10.0	700.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	7	3	40.3356	-79.9014	98.0	10.0	700.0	4.00	3.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	8	3	40.3356	-79.9014	98.0	10.0	700.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	91	40.3385	-79.9033	70.0	7.0	455.0	26.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	92	40.3385	-79.9033	70.0	7.0	455.0	27.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	93	40.3385	-79.9033	70.0	7.0	455.0	26.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	94	40.3385	-79.9033	70.0	7.0	455.0	24.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	9	95	40.3385	-79.9033	70.0	7.0	455.0	28.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	91	40.3385	-79.9033	70.0	7.0	455.0	49.00	37.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	92	40.3385	-79.9033	70.0	7.0	455.0	51.00	38.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	93	40.3385	-79.9033	70.0	7.0	455.0	47.00	35.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	94	40.3385	-79.9033	70.0	7.0	455.0	45.00	34.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	10	95	40.3385	-79.9033	70.0	7.0	455.0	52.00	39.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	15	16	40.3337	-79.9017	84.0	5.0	1240.0	8.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	17	19	40.3337	-79.9017	88.0	5.0	1240.0	7.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	19	212	40.3355	-79.9017	55.0	3.0	700.0	3.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	20	212	40.3355	-79.9017	55.0	3.0	700.0	19.00	14.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	21	23	40.3325	-79.9025	66.0	10.0	401.0	2.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	22	23	40.3325	-79.9025	66.0	10.0	401.0	9.00	7.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	23	25	40.3384	-79.9027	85.0	4.0	401.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	24	25	40.3384	-79.9027	85.0	4.0	401.0	4.00	3.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	25	5	40.3355	-79.9017	111.0	4.0	392.0	1.00	0.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	32	312	40.3268	-79.9043	50.0	2.0	1400.0	9.00	14.00
Allegheny	US STEEL CORPORATION - IRVIN PLANT	34	9999	40.3338	-79.9029	50.0	3.0	72.0	16.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	10	1	40.393	-79.8549	174.0	11.0	427.0	11.00	101.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	11	1	40.393	-79.8549	174.0	11.0	427.0	0.00	13.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	12	1	40.393	-79.8549	174.0	11.0	427.0	6.00	4.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	14	1	40.393	-79.8549	174.0	11.0	427.0	11.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	15	9999	40.3919	-79.8607	130.0	8.0	72.0	3.00	26.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	16	4	40.3933	-79.8568	187.0	9.0	427.0	11.00	89.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	17	4	40.3933	-79.8568	187.0	9.0	427.0	0.00	20.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	18	4	40.3933	-79.8568	187.0	9.0	427.0	4.00	2.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	20	4	40.3933	-79.8568	187.0	9.0	427.0	9.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	21	9999	40.3919	-79.8607	130.0	8.0	72.0	3.00	22.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	22	2	40.3925	-79.8555	69.0	12.0	63.0	10.00	77.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	23	3	40.3934	-79.856	174.0	11.0	428.0	6.00	12.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	25	7	40.3955	-79.8618	180.0	10.0	107.0	22.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	25	8	40.3955	-79.8618	180.0	10.0	107.0	22.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	27	24	40.3919	-79.856	137.0	7.0	444.0	18.00	13.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	28	24	40.3919	-79.856	50.0	3.0	373.0	14.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	39	9999	40.3919	-79.8607	240.0	8.0	72.0	1.00	1.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	40	9999	40.3919	-79.8607	53.0	3.0	72.0	5.00	0.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	44	2	40.3925	-79.8555	69.0	12.0	63.0	9.00	66.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	48	9999	40.3919	-79.8607	137.0	7.0	72.0	1.00	1.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	49	9999	40.3919	-79.8607	137.0	7.0	72.0	1.00	1.00
Allegheny	USS CORPORATION - EDGAR THOMSON WORKS	55	9999	40.3919	-79.8607	50.0	3.0	72.0	8.00	0.00
Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	2	2	40.4957	-79.8871	85.0	2.0	350.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	3	3	40.4957	-79.8871	85.0	2.0	350.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - ASPINWAL FACILITY	4	4	40.4957	-79.8871	85.0	2.0	350.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	1	1	40.475	-79.8829	62.0	3.0	500.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	2	2	40.475	-79.8829	62.0	3.0	500.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - HIGHLAND DRIVE FAC	3	3	40.475	-79.8829	62.0	3.0	500.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	2	2	40.4468	-79.9619	150.0	9.0	300.0	2.00	0.00
Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	3	2	40.4468	-79.9619	150.0	9.0	300.0	1.00	0.00
Allegheny	VA MEDICAL CENTER - OAKLAND FACILITY	4	2	40.4468	-79.9619	150.0	9.0	300.0	1.00	0.00
Allegheny	VALLEY PROTEINS (PA), INC.	3	5	40.5059	-80.1172	33.0	3.0	450.0	9.00	0.00
Allegheny	WHEMCO - WEST HOMESTEAD FACILITY	1	1	40.4015	-79.9254	60.0	0.0	70.0	2.00	0.00
Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	12	1	40.4498	-79.9835	10.0	4.0	480.0	3.00	0.00
Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	12	1	40.4498	-79.9835	10.0	4.0	480.0	2.00	0.00
Allegheny	WINTHROP MANAGEMENT - US STEEL TOWER	12	1	40.4498	-79.9835	10.0	4.0	480.0	3.00	0.00
Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG PO	W 031	S03	40.9290	-79.4657	1008.0	14.6	344.0	1353.07	6589.54
Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG PO	W 032	S04	40.9290	-79.4657	1008.0	14.6	354.0	1273.67	6723.89
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	101	SO5	40.6456	-79.3423	25.0	2.0	500.0	1.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	102	SO6	40.6456	-79.3423	25.0	2.0	500.0	1.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	201	SO1	40.6456	-79.3423	57.3	11.5	733.0	102.95	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	202	SO2	40.6456	-79.3423	57.0	11.0	734.0	1.00	1.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	202	SO2	40.6456	-79.3423	57.0	11.0	734.0	6.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	203	SO3	40.6456	-79.3423	57.0	11.0	734.0	1.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	203	SO3	40.6456	-79.3423	57.0	11.0	734.0	8.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	204	SO4	40.6456	-79.3423	57.0	11.0	734.0	1.00	0.00
Armstrong	ARMSTRONG ENERGY LLC/SOUTH BEND STA	204	SO4	40.6456	-79.3423	57.0	11.0	734.0	12.00	0.00
Armstrong	DLR MINING INC/TRIPLE K #1 DEEP MINE	101	S01	40.6709	-79.4676	28.0	1.0	627.0	12.00	5.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Armstrong	DOMINION PEOPLES/GIRTY STA	101	S01	40.6377	-79.3572	34.0	1.0	780.0	27.00	0.00
Armstrong	DOMINION PEOPLES/GIRTY STA	102	S02	40.6377	-79.3572	34.0	1.0	780.0	16.00	0.00
Armstrong	DOMINION PEOPLES/GIRTY STA	103	S03	40.6377	-79.3572	33.0	1.0	500.0	55.00	0.00
Armstrong	DOMINION PEOPLES/GIRTY STA	104	S04	40.6377	-79.3572	30.0	2.0	680.0	42.00	0.00
Armstrong	DOMINION PEOPLES/ROARING RUN STA	101	SO1	40.576	-79.5006	33.0	1.0	500.0	3.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	32	S32	40.7912	-79.3658	24.0	1.0	1000.0	1.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	101	S01	40.7912	-79.3658	31.0	1.0	740.0	31.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	102	S02	40.7912	-79.3658	30.0	2.0	680.0	2.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	103	S03	40.7912	-79.3658	30.0	2.0	680.0	56.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	104	S04	40.7912	-79.3658	30.0	2.0	680.0	8.00	0.00
Armstrong	DOMINION PEOPLES/VALLEY STA	105	S05	40.7912	-79.3658	31.0	1.0	550.0	29.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	101	S01	40.6377	-79.3572	26.0	2.0	600.0	3.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	102	S02	40.6377	-79.3572	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	103	S03	40.6377	-79.3572	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	104	S04	40.6377	-79.3572	26.0	2.0	600.0	1.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	105	S05	40.6377	-79.3572	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	106	S06	40.6377	-79.3572	26.0	2.0	600.0	2.00	0.00
Armstrong	DOMINION TRANS INC/SOUTH BEND STA	114	S09	40.6377	-79.3572	26.0	2.0	350.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	101	S01	40.7772	-79.5294	25.0	3.0	235.0	96.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	102	S02	40.7772	-79.5294	56.0	2.0	550.0	27.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	102	S11	40.7772	-79.5294	56.0	2.0	550.0	27.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	102	S12	40.7772	-79.5294	59.0	2.0	550.0	27.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	103	S03	40.7772	-79.5294	71.0	3.0	550.0	62.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	104	S04	40.7772	-79.5294	31.0	2.0	550.0	54.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	105	S05	40.7772	-79.5294	31.0	2.0	550.0	55.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	106	S06	40.7772	-79.5294	31.0	2.0	550.0	55.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	107	S07	40.7772	-79.5294	28.0	2.0	550.0	57.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	108	S08	40.7772	-79.5294	29.0	2.0	550.0	4.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	109	S09	40.7772	-79.5294	33.0	3.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	109	S13	40.7772	-79.5294	33.0	3.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	110	S10	40.7772	-79.5294	43.0	4.0	550.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	110	S14	40.7772	-79.5294	43.0	4.0	550.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	110	S15	40.7772	-79.5294	43.0	4.0	550.0	2.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	111	S16	40.7772	-79.5294	47.0	4.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	111	S17	40.7772	-79.5294	47.0	4.0	550.0	1.00	0.00
Armstrong	ELJER PLUMBINGWARE/FORD CITY PLT	120	Z01	40.7772	-79.5294	2.0	3.0	72.0	7.00	0.00
Armstrong	EQUITABLE GAS CO/FISHER STATION	102	S02	40.7695	-79.2432	27.0	1.0	745.0	12.00	0.00
Armstrong	EQUITABLE GAS CO/SHOEMAKER	101	S01	40.7555	-79.55	18.0	2.0	660.0	1.00	0.00
Armstrong	EQUITABLE GAS CO/SHOEMAKER	102	S02	40.7555	-79.55	18.0	2.0	660.0	3.00	0.00
Armstrong	EQUITABLE GAS CO/VILLAGE STATION	101	S01	40.785	-79.3408	27.0	1.0	745.0	39.00	0.00
Armstrong	EQUITRANS INC/ATWOOD BOOSTER STA 16	101	S01	40.7573	-79.2692	20.0	3.0	500.0	23.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Armstrong	EQUITRANS INC/CROOKED CREEK COMPRESSOR	S 101	S01	40.7173	-79.5319	20.0	3.0	500.0	32.00	0.00
Armstrong	EQUITRANS INC/CROOKED CREEK COMPRESSOR	S 102	S02	40.7173	-79.5319	20.0	3.0	500.0	26.00	0.00
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	100	S01	40.6837	-79.6894	36.0	3.0	410.0	1.00	4.00
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	100	S01	40.6837	-79.6894	36.0	3.0	410.0	1.00	0.00
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	101	S02	40.6837	-79.6894	36.0	3.0	410.0	1.00	5.00
Armstrong	FREEPORT BRICK CO/FREEPORT BORO	101	S02	40.6837	-79.6894	36.0	3.0	410.0	1.00	0.00
Armstrong	KITTANNING BRICK CO/REESEDALE	100	S01	40.9357	-79.4693	43.0	4.0	362.0	1.00	0.00
Armstrong	KITTANNING BRICK CO/REESEDALE	103	S03	40.9357	-79.4693	31.0	3.0	559.0	0.00	1.00
Armstrong	KITTANNING BRICK CO/REESEDALE	105	S04	40.9357	-79.4693	31.0	3.0	559.0	0.00	1.00
Armstrong	NATL FUEL GAS SUPPLY/KAYLOR STA	101	S01	40.9444	-79.6167	27.0	1.0	745.0	25.00	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	31	S01	40.6602	-79.3418	800.0	26.9	314.0	1360.10	5227.72
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	32	S02	40.6602	-79.3418	800.0	26.9	314.0	1352.66	5135.56
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	37	S07	40.6602	-79.3418	275.0	7.0	650.0	4.00	13.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	38	S07	40.6602	-79.3418	275.0	7.0	650.0	5.00	12.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	101	S03	40.6602	-79.3418	18.0	4.0	800.0	0.34	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	102	S04	40.6602	-79.3418	18.0	4.0	800.0	0.34	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	103	S05	40.6602	-79.3418	18.0	4.0	800.0	0.34	0.00
Armstrong	RELIANT ENERGY/KEYSTONE POWER PLT	104	S06	40.6602	-79.3418	18.0	4.0	800.0	0.34	0.00
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	N 032	S02	40.6538	-80.3559	225.0	7.8	335.0	1919.95	816.22
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	N 033	S03	40.6538	-80.3559	225.0	8.0	335.0	1063.00	1207.00
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	N 034	S04	40.6538	-80.3559	225.0	8.0	335.0	994.00	1124.00
Beaver	AES BEAVER VALLEY LLC/BEAVER VALLY COGE	N 035	S05	40.6538	-80.3559	225.0	5.0	335.0	567.00	603.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	103	S02	40.6899	-80.2814	100.0	5.0	800.0	18.00	12.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	104	Z01	40.6899	-80.2814	40.0	3.0	72.0	1.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	105	Z02	40.6899	-80.2814	40.0	3.0	72.0	1.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	105	Z02	40.6899	-80.2814	40.0	3.0	72.0	4.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	110	S01	40.6899	-80.2814	37.0	2.0	442.0	2.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	115	S19	40.6899	-80.2814	58.0	3.0	380.0	1.00	0.00
Beaver	ANCHOR HOCKING CORP/PHOENIX GLASS	115	S19	40.6899	-80.2814	58.0	3.0	380.0	1.00	0.00
Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	33	P15	40.7541	-80.3243	60.0	2.0	300.0	2.00	0.00
Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	102	S02	40.7541	-80.3243	41.0	2.0	107.0	1.00	0.00
Beaver	ARMSTRONG WORLD IND /BEAVER FALLS	134	Z01	40.7541	-80.3243	2.0	1.0	72.0	3.00	0.00
Beaver	BASF CORP/MONACA PLT	CD002	S01	40.6605	-80.3458	40.0	0.0	70.0	5.00	0.00
Beaver	CENTRIA/CENTRIA	101	S04	40.7222	-80.2001	86.0	3.0	400.0	4.00	0.00
Beaver	CENTRIA/CENTRIA	101	S04	40.7222	-80.2001	86.0	3.0	400.0	6.00	0.00
Beaver	CUTLER HAMMER/BEAVER	32	S02	40.6931	-80.3207	49.0	5.0	350.0	4.00	0.00
Beaver	CUTLER HAMMER/BEAVER	33	S03	40.6931	-80.3207	49.0	2.0	350.0	2.00	0.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	124	S04	40.8103	-80.4294	43.0	4.0	362.0	5.00	37.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	124	S04	40.8103	-80.4294	43.0	4.0	362.0	0.00	36.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	132	S05	40.8103	-80.4294	43.0	4.0	362.0	11.00	87.00
Beaver	DARLINGTON BRICK & CLAY/DARLINGTON	132	S05	40.8103	-80.4294	43.0	4.0	362.0	0.00	85.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Beaver	DOMINION TRANS INC/BEAVER	36	S06	40.7722	-80.2499	31.0	2.0	450.0	7.00	0.00
Beaver	DOMINION TRANS INC/BEAVER	101	S01	40.7722	-80.2499	52.0	3.0	700.0	28.00	0.00
Beaver	DOMINION TRANS INC/BEAVER	102	S02	40.7722	-80.2499	52.0	3.0	700.0	34.00	0.00
Beaver	DOMINION TRANS INC/BEAVER	103	S03	40.7722	-80.2499	52.0	3.0	700.0	31.00	0.00
Beaver	DOMINION TRANS INC/BEAVER	104	S04	40.7722	-80.2499	52.0	3.0	700.0	38.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	32	S16	40.6706	-80.3365	38.0	2.0	400.0	2.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	36	S52	40.6706	-80.3365	60.0	1.0	400.0	1.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	207	S02	40.6706	-80.3365	103.0	7.0	117.0	4.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	208	U01	40.6706	-80.3365	400.0	18.0	198.0	3.00	429.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	210	S03	40.6706	-80.3365	100.0	2.0	70.0	0.00	53.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	401	U01	40.6706	-80.3365	400.0	18.0	198.0	55.00	5207.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	502	U02	40.6706	-80.3365	121.0	7.0	175.0	19.00	1.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	502	U03	40.6706	-80.3365	200.0	11.0	160.0	26.00	1.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	S11	40.6706	-80.3365	104.0	7.0	120.0	16.00	14.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	S13	40.6706	-80.3365	104.0	7.0	170.0	5.00	5.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	U02	40.6706	-80.3365	121.0	7.0	175.0	3.00	3.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	506	U03	40.6706	-80.3365	200.0	11.0	160.0	3.00	2.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S21	40.6706	-80.3365	68.0	4.0	208.0	8.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S24	40.6706	-80.3365	75.0	4.0	390.0	61.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S25	40.6706	-80.3365	75.0	6.0	250.0	61.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	800	S26	40.6706	-80.3365	75.0	4.0	180.0	61.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	802	S22	40.6706	-80.3365	63.0	2.0	70.0	1.00	0.00
Beaver	HORSEHEAD CORP/MONACA SMELTER	904	S10	40.6706	-80.3365	60.0	3.0	70.0	1.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	40	S040	40.6387	-80.461	46.0	3.0	330.0	10.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	41	S041A	40.6387	-80.461	37.0	2.0	430.0	15.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	41	S041B	40.6387	-80.461	37.0	2.0	430.0	15.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	106	S106	40.6387	-80.461	85.0	12.0	171.0	362.00	18.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	138	S138A	40.6387	-80.461	57.0	3.0	533.0	3.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	138	S138B	40.6387	-80.461	57.0	3.0	533.0	3.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	138	S138C	40.6387	-80.461	57.0	3.0	533.0	3.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	140	S70	40.6387	-80.461	47.0	3.0	99.0	44.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	140	S140	40.6387	-80.461	47.0	3.0	99.0	44.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	206	S206	40.6387	-80.461	57.0	3.0	533.0	14.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	208	S208	40.6387	-80.461	55.0	3.0	99.0	15.00	0.00
Beaver	JEWEL ACQUISITION/MIDLAND FAC	209	S209	40.6387	-80.461	58.0	3.0	436.0	3.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	101	S01	40.836	-80.3185	125.0	11.0	800.0	19.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	101	S01	40.836	-80.3185	125.0	11.0	800.0	20.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	102	S02	40.836	-80.3185	54.0	4.0	900.0	2.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	102	S02	40.836	-80.3185	54.0	4.0	900.0	2.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	103	S03	40.836	-80.3185	57.0	3.0	533.0	4.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	104	S04	40.836	-80.3185	58.0	3.0	380.0	3.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Beaver	KOPPEL STEEL CORP/AMBRIDGE	105	S05	40.836	-80.3185	58.0	4.0	262.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	105	S05	40.836	-80.3185	58.0	4.0	262.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	109	S09	40.836	-80.3185	37.0	2.0	442.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/AMBRIDGE	109	S09	40.836	-80.3185	37.0	2.0	442.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	33	S03	40.8356	-80.3184	54.0	4.0	900.0	2.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	102	S02	40.8356	-80.3184	54.0	4.0	900.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	103	S03	40.8356	-80.3184	54.0	4.0	900.0	1.00	0.00
Beaver	KOPPEL STEEL CORP/KOPPEL	109	S05	40.8356	-80.3184	100.0	10.0	150.0	18.00	28.00
Beaver	NGC IND/SHIPPINGPORT	100	S100	40.625	-80.4167	30.0	2.0	350.0	5.00	0.00
Beaver	NGC IND/SHIPPINGPORT	109	S09	40.625	-80.4167	58.0	3.0	380.0	5.00	0.00
Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	31	S01	40.6594	-80.2548	58.0	3.0	436.0	1.00	0.00
Beaver	NORFOLK SOUTHERN RAILWAY/CONWAY	32	S02	40.6594	-80.2548	58.0	3.0	436.0	1.00	0.00
Beaver	NOVA CHEM CO/BEAVER	101	S01	40.6538	-80.3559	40.0	5.0	460.0	6.00	0.00
Beaver	NOVA CHEM CO/BEAVER	501	S510	40.6538	-80.3559	31.0	1.0	129.0	2.00	0.00
Beaver	NOVA CHEM CO/BEAVER	801	Z07	40.6538	-80.3559	2.0	2.0	72.0	1.00	0.00
Beaver	PA POWER CO/BRUCE MANSFIELD PLT	31	S01	40.6344	-80.4200	950.0	19.2	356.0	1468.78	6120.12
Beaver	PA POWER CO/BRUCE MANSFIELD PLT	32	S03	40.6344	-80.4200	950.0	19.2	356.0	1467.49	6114.50
Beaver	PA POWER CO/BRUCE MANSFIELD PLT	33	S05	40.6344	-80.4200	600.0	19.2	356.0	1459.67	5765.82
Beaver	SCA PKG NORTH AMERICA /NEW BRIGHTON FAC	32	S02	40.7398	-80.3036	25.0	2.0	420.0	1.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-1,2	S-1	40.5892	-80.4819	54.0	9.0	203.0	31.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-3	S-2	40.5892	-80.4819	58.0	3.0	380.0	16.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-4	S-3	40.5892	-80.4819	58.0	3.0	380.0	15.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-5	S-4	40.5892	-80.4819	100.0	5.0	220.0	11.00	0.00
Beaver	US GYPSUM CO/ALIQUIPPA	EU-7	S-6	40.5892	-80.4819	25.0	1.0	600.0	1.00	0.00
Beaver	WHEMCO FOUNDRY/MIDLAND	102	S02	40.6309	-80.4448	58.0	4.0	262.0	1.00	0.00
Beaver	WHEMCO FOUNDRY/MIDLAND	131	S03	40.6309	-80.4448	26.0	2.0	85.0	1.00	0.00
Beaver	WHEMCO FOUNDRY/MIDLAND	132	S04	40.6309	-80.4448	40.0	6.0	200.0	6.00	1.00
Beaver	WHEMCO FOUNDRY/MIDLAND	134	Z04	40.6309	-80.4448	2.0	3.0	72.0	8.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	31	S04	40.8293	-79.9427	58.0	4.0	500.0	6.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	32	S05	40.8293	-79.9427	30.0	3.0	500.0	4.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	33	S06	40.8293	-79.9427	64.0	5.0	450.0	7.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	34	S07	40.8293	-79.9427	64.0	5.0	450.0	7.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	35	S08	40.8293	-79.9427	64.0	5.0	450.0	13.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	38	S038	40.8293	-79.9427	15.0	2.0	430.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	102	S44	40.8293	-79.9427	37.0	2.0	430.0	73.00	10.00
Butler	AK STEEL CORP/BUTLER WORKS	103	S44	40.8293	-79.9427	37.0	2.0	430.0	75.00	10.00
Butler	AK STEEL CORP/BUTLER WORKS	104	S44	40.8293	-79.9427	37.0	2.0	430.0	71.00	9.00
Butler	AK STEEL CORP/BUTLER WORKS	111	T07	40.8293	-79.9427	73.0	6.0	702.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	111	T07	40.8293	-79.9427	73.0	6.0	702.0	9.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	112	T08	40.8293	-79.9427	73.0	6.0	702.0	10.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	112	T08	40.8293	-79.9427	73.0	6.0	702.0	8.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Butler	AK STEEL CORP/BUTLER WORKS	113	T09	40.8293	-79.9427	150.0	4.0	1484.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	113	T09	40.8293	-79.9427	150.0	4.0	1484.0	8.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	118	T12	40.8293	-79.9427	50.0	3.0	100.0	4.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	122	T17	40.8293	-79.9427	55.0	3.0	100.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	124	T19	40.8293	-79.9427	54.0	3.0	100.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	125	S43	40.8293	-79.9427	50.0	3.0	100.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	127	T22	40.8293	-79.9427	67.0	2.0	100.0	6.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	128	Z25	40.8293	-79.9427	2.0	4.0	72.0	3.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	129	Z25	40.8293	-79.9427	2.0	4.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	130	Z25	40.8293	-79.9427	2.0	4.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	131	Z25	40.8293	-79.9427	2.0	4.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	132	Z25	40.8293	-79.9427	2.0	4.0	72.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	133	Z25	40.8293	-79.9427	2.0	4.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	134	Z25	40.8293	-79.9427	2.0	3.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	135	Z25	40.8293	-79.9427	2.0	4.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	136	S17	40.8293	-79.9427	77.0	35.0	250.0	8.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	137	S37	40.8293	-79.9427	73.0	6.0	702.0	14.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	137	S37	40.8293	-79.9427	73.0	6.0	702.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	140	S44	40.8293	-79.9427	37.0	2.0	430.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	141	S44	40.8293	-79.9427	37.0	2.0	430.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	148	S23	40.8293	-79.9427	79.0	4.0	389.0	12.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	156	Z03	40.8293	-79.9427	100.0	4.0	72.0	10.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	157	S18	40.8293	-79.9427	58.0	3.0	436.0	11.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	158	S19	40.8293	-79.9427	109.0	7.0	387.0	17.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	159	Z04	40.8293	-79.9427	2.0	4.0	72.0	10.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	247	Z01	40.8293	-79.9427	100.0	4.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	248	Z01	40.8293	-79.9427	100.0	4.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	249	Z01	40.8293	-79.9427	100.0	4.0	72.0	1.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	250	Z01	40.8293	-79.9427	100.0	4.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	251	Z01	40.8293	-79.9427	100.0	4.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	252	Z01	40.8293	-79.9427	100.0	4.0	72.0	2.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	253	Z52	40.8293	-79.9427	2.0	4.0	72.0	25.00	0.00
Butler	AK STEEL CORP/BUTLER WORKS	160A	S24	40.8293	-79.9427	58.0	3.0	436.0	5.00	0.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	101	S01	40.7948	-79.7002	175.0	12.0	465.0	198.00	399.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	101	S01	40.7948	-79.7002	175.0	12.0	465.0	0.00	341.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	121	S01	40.7948	-79.7002	175.0	12.0	465.0	172.00	323.00
Butler	ARMSTRONG CEMENT & SUPPLY/WINFIELD	121	S01	40.7948	-79.7002	175.0	12.0	465.0	0.00	307.00
Butler	BASF EVANS CITY OPS	241	S241	40.85	-80.0001	30.0	2.0	1600.0	1.00	0.00
Butler	BASF EVANS CITY OPS	241	S241	40.85	-80.0001	30.0	2.0	1600.0	2.00	0.00
Butler	BASF EVANS CITY OPS	721	S721	40.85	-80.0001	13.0	2.0	350.0	2.00	0.00
Butler	BNZ MATERIALS INC/ZELIENOPLE	206	S206	40.792	-80.149	43.0	4.0	362.0	2.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Butler	BNZ MATERIALS INC/ZELIENOPLE	206	S206A	40.792	-80.149	43.0	4.0	362.0	2.00	0.00
Butler	BNZ MATERIALS INC/ZELIENOPLE	207	S207A	40.792	-80.149	70.0	3.0	375.0	7.00	0.00
Butler	BNZ MATERIALS INC/ZELIENOPLE	207	S207B	40.792	-80.149	43.0	4.0	362.0	7.00	0.00
Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	101	S01	40.8669	-79.8752	25.0	2.0	615.0	3.00	0.00
Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	102	S08	40.8669	-79.8752	15.0	3.0	390.0	2.00	0.00
Butler	BUTLER COLOR PRESS I/BUTLER COLOR PRESS	108	S08	40.8669	-79.8752	15.0	3.0	390.0	2.00	0.00
Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	31	S31	40.8721	-79.8394	8.0	2.0	285.0	2.00	0.00
Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	32	S32	40.8721	-79.8394	8.0	2.0	285.0	2.00	0.00
Butler	CASTLE RUBBER LLC/EAST BUTLER BORO	33	S33	40.8721	-79.8394	8.0	2.0	285.0	1.00	0.00
Butler	CROMPTON CORP/PETROLIA	32	S032	41.0126	-79.7178	200.0	9.0	600.0	18.00	3.00
Butler	CROMPTON CORP/PETROLIA	32	S032	41.0126	-79.7178	200.0	9.0	600.0	10.00	0.00
Butler	CROMPTON CORP/PETROLIA	33	S033	41.0126	-79.7178	30.0	2.0	350.0	15.00	0.00
Butler	CROMPTON CORP/PETROLIA	34	S034	41.0126	-79.7178	200.0	6.0	640.0	41.00	7.00
Butler	CROMPTON CORP/PETROLIA	34	S034	41.0126	-79.7178	200.0	6.0	640.0	4.00	0.00
Butler	CROMPTON CORP/PETROLIA	35	S034	41.0126	-79.7178	200.0	6.0	640.0	24.00	4.00
Butler	CROMPTON CORP/PETROLIA	35	S034	41.0126	-79.7178	200.0	6.0	640.0	1.00	0.00
Butler	CROMPTON CORP/PETROLIA	110	S0110	41.0126	-79.7178	60.0	2.0	600.0	2.00	1.00
Butler	CROMPTON CORP/PETROLIA	110	S0110	41.0126	-79.7178	60.0	2.0	600.0	17.00	0.00
Butler	CROMPTON CORP/PETROLIA	112	S0112	41.0126	-79.7178	50.0	2.0	790.0	2.00	0.00
Butler	CROMPTON CORP/PETROLIA	116	S0116	41.0126	-79.7178	50.0	2.0	700.0	3.00	0.00
Butler	CROMPTON CORP/PETROLIA	117	S0117	41.0126	-79.7178	50.0	2.0	700.0	7.00	0.00
Butler	CROMPTON CORP/PETROLIA	119	S0118	41.0126	-79.7178	50.0	2.0	700.0	1.00	0.00
Butler	CROMPTON CORP/PETROLIA	123	SO5	41.0126	-79.7178	10.0	1.0	1200.0	12.00	44.00
Butler	CROMPTON CORP/PETROLIA	124	S06	41.0126	-79.7178	10.0	1.0	1200.0	12.00	16.00
Butler	CROMPTON CORP/PETROLIA	125	S125	41.0126	-79.7178	25.0	1.0	130.0	6.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	35	S035	41.0183	-79.717	30.0	3.0	300.0	8.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	36	S036	41.0183	-79.717	50.0	3.0	320.0	8.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	38	S038	41.0183	-79.717	86.0	4.0	350.0	10.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	39	S039	41.0183	-79.717	51.0	6.0	322.0	22.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	40	S040	41.0183	-79.717	64.0	6.0	322.0	13.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	100	S100	41.0183	-79.717	75.0	2.0	193.0	1.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	106	S106	41.0183	-79.717	65.0	4.0	200.0	3.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	106	S106	41.0183	-79.717	65.0	4.0	200.0	2.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	131	S131	41.0183	-79.717	62.0	4.0	234.0	3.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	131	S131	41.0183	-79.717	62.0	4.0	234.0	2.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	134	S134	41.0183	-79.717	55.0	2.0	200.0	0.00	36.00
Butler	INDSPEC CHEM CORP/PETROLIA	153	S116	41.0183	-79.717	45.0	3.0	143.0	1.00	0.00
Butler	INDSPEC CHEM CORP/PETROLIA	159	S159	41.0183	-79.717	35.0	2.0	120.0	0.00	10.00
Butler	INDSPEC CHEM CORP/PETROLIA	180	S180	41.0183	-79.717	27.0	1.0	490.0	10.00	1.00
Butler	NAPCO INC/VALENCIA	32	S01	40.7245	-79.9326	53.0	3.0	1280.0	1.00	0.00
Butler	NAPCO INC/VALENCIA	33	S01	40.7245	-79.9326	53.0	3.0	1280.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Butler	NAPCO INC/VALENCIA	38	Z01	40.7245	-79.9326	40.0	1.0	72.0	3.00	0.00
Butler	NAPCO INC/VALENCIA	C01	S01	40.7245	-79.9326	53.0	3.0	1280.0	5.00	0.00
Butler	PENRECO/KARNS CITY	31	S01	40.9961	-79.7251	61.0	4.0	580.0	2.00	1.00
Butler	PENRECO/KARNS CITY	31	S01	40.9961	-79.7251	61.0	4.0	580.0	2.00	0.00
Butler	PENRECO/KARNS CITY	32	S02	40.9961	-79.7251	64.0	4.0	530.0	104.00	239.00
Butler	PENRECO/KARNS CITY	33	S03	40.9961	-79.7251	72.0	4.0	550.0	110.00	262.00
Butler	PENRECO/KARNS CITY	34	S04	40.9961	-79.7251	55.0	2.0	1600.0	4.00	0.00
Butler	PENRECO/KARNS CITY	35	S05	40.9961	-79.7251	57.0	2.0	1000.0	4.00	0.00
Butler	PENRECO/KARNS CITY	36	S06	40.9961	-79.7251	55.0	2.0	1600.0	1.00	0.00
Butler	PENRECO/KARNS CITY	38	S08	40.9961	-79.7251	41.0	2.0	800.0	2.00	0.00
Butler	PENRECO/KARNS CITY	101	S04	40.9961	-79.7251	55.0	2.0	1600.0	3.00	0.00
Butler	PENRECO/KARNS CITY	102	S01	40.9961	-79.7251	61.0	4.0	580.0	0.00	7.00
Butler	PENRECO/KARNS CITY	102	S01	40.9961	-79.7251	61.0	4.0	580.0	0.00	6.00
Butler	PENRECO/KARNS CITY	102	S05	40.9961	-79.7251	57.0	2.0	1000.0	0.00	7.00
Butler	PENRECO/KARNS CITY	102	S05	40.9961	-79.7251	57.0	2.0	1000.0	0.00	6.00
Butler	PENRECO/KARNS CITY	116	Z01	40.9961	-79.7251	100.0	2.0	72.0	6.00	0.00
Butler	PENRECO/KARNS CITY	118	S18	40.9961	-79.7251	103.0	5.0	624.0	1.00	81.00
Butler	PENRECO/KARNS CITY	119	S19	40.9961	-79.7251	103.0	5.0	624.0	1.00	2.00
Butler	SENECA LANDFILL INC/SENECA	101	S01	40.8119	-80.0786	20.0	6.0	1600.0	5.00	2.00
Butler	SENECA LANDFILL INC/SENECA	101	Z01	40.8119	-80.0786	2.0	4.0	72.0	5.00	2.00
Butler	THREE RIVERS ALUM CO/TRACO	115	Z115	40.7034	-80.1122	2.0	3.0	72.0	3.00	0.00
Butler	THREE RIVERS ALUM CO/TRACO	116	S116	40.7034	-80.1122	47.0	1.0	311.0	2.00	0.00
Butler	THREE RIVERS ALUM CO/TRACO	116	Z116	40.7034	-80.1122	2.0	3.0	72.0	2.00	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO LLC/CHAMBERS	B 012	S012	39.8667	-77.6833	64.7	11.4	650.0	2.93	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO LLC/CHAMBERS	B 013	S013	39.8667	-77.6833	64.7	11.4	650.0	2.98	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS POWER S	T 101	S01	39.7475	-79.8388	64.7	11.4	650.0	4.31	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO/GANS POWER S	T 102	S02	39.7475	-79.8388	64.7	11.4	650.0	4.74	0.00
Fayette	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FE	R 031	S01	39.8555	-79.9268	441.0	17.2	302.0	4447.27	19115.19
Fayette	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FE	R 032	S01	39.8555	-79.9268	441.0	17.2	302.0	1021.28	2042.51
Fayette	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FE	R 033	S02	39.8555	-79.9268	441.0	17.2	302.0	1017.99	2035.94
Fayette	ANCHOR GLASS CONTAINER/PLT 5	101	S01	39.9883	-79.5895	100.0	5.0	800.0	32.00	131.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	102	S02	39.9883	-79.5895	75.0	3.0	437.0	52.00	206.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	108	S08	39.9883	-79.5895	58.0	3.0	436.0	1.00	0.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	109	S109	39.9883	-79.5895	37.0	2.0	600.0	1.00	0.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	110	S110	39.9883	-79.5895	35.0	2.0	600.0	2.00	0.00
Fayette	ANCHOR GLASS CONTAINER/PLT 5	111	S111	39.9883	-79.5895	30.0	3.0	600.0	1.00	0.00
Fayette	CHAMBERSBURG DIESEL	105	41	39.9416	-77.6627	62.0	10.0	585.0	0.13	0.00
Fayette	CHAMBERSBURG DIESEL	106	41	39.9416	-77.6627	62.0	10.0	585.0	0.13	0.00
Fayette	CHAMBERSBURG DIESEL	107	41	39.9416	-77.6627	62.0	10.0	585.0	0.75	0.00
Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	E 032	S032	39.9836	-79.5777	18.0	3.0	330.0	1.00	0.00
Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	E 033	S033	39.9836	-79.5777	12.0	2.0	330.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Fayette	CROWN CORK & SEAL CO/SOUTH CONNELLSVILL	E 102	S102	39.9836	-79.5777	25.0	4.0	600.0	3.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	32	S02	39.8542	-79.6754	35.0	1.0	430.0	6.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	33	S03	39.8542	-79.6754	35.0	1.0	442.0	6.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	34	S04	39.8542	-79.6754	37.0	2.0	442.0	3.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	101	S05	39.8542	-79.6754	30.0	2.0	680.0	8.00	0.00
Fayette	DOMINION TRANS INC/NORTH SUMMIT	102	S06	39.8542	-79.6754	30.0	2.0	680.0	14.00	0.00
Fayette	FAYETTE ENERGY FACILITY	1	41	39.8619	-79.9125	62.0	10.0	585.0	98.35	0.00
Fayette	FAYETTE ENERGY FACILITY	2	41	39.8619	-79.9125	62.0	10.0	585.0	15.60	0.00
Fayette	ONYX CHESTNUT VALLEY LANDFILL INC/J & L	101	S01	39.8961	-79.8011	13.0	2.0	100.0	15.00	1.00
Fayette	TEXAS EASTERN TRANS /UNIONTOWN	102	S01	39.9343	-79.6717	40.0	7.0	600.0	11.00	0.00
Fayette	TEXAS EASTERN TRANS /UNIONTOWN	103	S03	39.9343	-79.6717	40.0	5.0	693.0	22.00	1.00
Greene	CARNEGIE INTERSTATE /HOLLY HILL EXTRACT	I 101	S01	39.8929	-80.1579	30.0	2.0	680.0	1.00	0.00
Greene	CARNEGIE INTERSTATE /WAYNESBURG COMPRES	S 101	SO1	39.8916	-80.1834	27.0	1.0	745.0	3.00	0.00
Greene	CONSOL COAL CO/ROBENA PREP PLT	31	S31	39.8388	-79.9338	58.0	3.0	436.0	5.00	0.00
Greene	CONSOL PA COAL CO/BAILEY PREP PLT	101	S01	39.9729	-80.4122	104.0	8.0	248.0	177.00	257.00
Greene	CONSOL PA COAL CO/BAILEY PREP PLT	102	S02	39.9729	-80.4122	25.0	7.0	72.0	303.00	598.00
Greene	DOMINION TRANS INC/CRAYNE STA	101	S01	39.9	-80.15	40.0	5.0	693.0	13.00	0.00
Greene	DOMINION TRANS INC/CRAYNE STA	102	S02	39.9	-80.15	30.0	2.0	700.0	5.00	0.00
Greene	EQUITRANS INC/PRATT 47	37	S07	39.9077	-80.1455	20.0	1.0	700.0	2.00	0.00
Greene	EQUITRANS INC/PRATT 47	101	SO1	39.9077	-80.1455	27.0	1.0	745.0	15.00	0.00
Greene	EQUITRANS INC/PRATT 47	102	SO2	39.9077	-80.1455	27.0	1.0	745.0	5.00	0.00
Greene	EQUITRANS INC/PRATT 47	103	SO3	39.9077	-80.1455	27.0	1.0	745.0	9.00	0.00
Greene	EQUITRANS INC/PRATT 47	104	SO4	39.9077	-80.1455	27.0	1.0	745.0	8.00	0.00
Greene	EQUITRANS INC/PRATT 47	105	SO5	39.9077	-80.1455	27.0	1.0	745.0	3.00	0.00
Greene	KYOWA AMER CORP/WAYNESBURG PLT	31	S01	39.9166	-80.1834	20.0	2.0	350.0	2.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	101	SO1	39.8902	-80.4522	27.0	1.0	745.0	12.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	102	SO2	39.8902	-80.4522	27.0	1.0	745.0	15.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	103	SO3	39.8902	-80.4522	27.0	1.0	745.0	34.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	104	SO4	39.8902	-80.4522	27.0	1.0	745.0	25.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	105	SO5	39.8902	-80.4522	27.0	1.0	745.0	24.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	106	SO6	39.8902	-80.4522	27.0	1.0	745.0	23.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	107	SO7	39.8902	-80.4522	27.0	1.0	745.0	14.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	108	SO8	39.8902	-80.4522	27.0	1.0	745.0	1.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	109	SO9	39.8902	-80.4522	27.0	1.0	745.0	5.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	110	S10	39.8902	-80.4522	27.0	1.0	745.0	5.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	111	S11	39.8902	-80.4522	27.0	1.0	745.0	6.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	112	S12	39.8902	-80.4522	27.0	1.0	745.0	5.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	113	S13	39.8902	-80.4522	27.0	1.0	745.0	3.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	114	S14	39.8902	-80.4522	27.0	1.0	745.0	3.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	115	S15	39.8902	-80.4522	27.0	1.0	745.0	2.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	116	S16	39.8902	-80.4522	27.0	1.0	745.0	3.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	117	S17	39.8902	-80.4522	27.0	1.0	745.0	2.00	0.00
Greene	TEXAS EASTERN TRANS /HOLBROOK STATION	118	S18	39.8902	-80.4522	43.0	6.0	894.0	21.00	1.00
Greene	TEXAS EASTERN TRANS /WAYNESBURG STA	101	SO1	39.9195	-80.125	40.0	5.0	693.0	5.00	0.00
Indiana	HOMER CITY OL/HOMER CITY GEN STA	31	S01	40.5136	-79.1968	800.0	24.0	310.0	1334.52	3843.57
Indiana	HOMER CITY OL/HOMER CITY GEN STA	32	S02	40.5136	-79.1968	800.0	24.0	310.0	1324.02	3562.30
Indiana	HOMER CITY OL/HOMER CITY GEN STA	33	S04	40.5136	-79.1968	854.0	27.0	335.0	1373.93	2518.96
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	226	S226	40.8783	-80.3247	300.0	11.0	275.0	210.00	756.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	226	S226	40.8783	-80.3247	300.0	11.0	275.0	0.00	370.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	227	S226	40.8783	-80.3247	300.0	11.0	275.0	211.00	757.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	227	S226	40.8783	-80.3247	300.0	11.0	275.0	0.00	371.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	228	S226	40.8783	-80.3247	300.0	11.0	275.0	190.00	685.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	228	S226	40.8783	-80.3247	300.0	11.0	275.0	0.00	333.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	232	S195	40.8783	-80.3247	80.0	3.0	146.0	8.00	21.00
Lawrence	CEMEX INC/WAMPUM CEMENT PLT	233	S196	40.8783	-80.3247	80.0	3.0	146.0	8.00	21.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	300	S300	40.8607	-80.2938	34.0	2.0	147.0	17.00	0.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	341	S341	40.8607	-80.2938	83.0	3.0	300.0	1.00	0.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	500A	S500A	40.8607	-80.2938	38.0	3.0	400.0	3.00	0.00
Lawrence	ELLWOOD CITY FORGE/ELLWOOD CITY	500B	S500B	40.8607	-80.2938	34.0	2.0	147.0	4.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 033	S03	40.9906	-80.3497	85.0	3.0	550.0	1.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 034	Z01	40.9906	-80.3497	2.0	4.0	72.0	4.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 101	S01	40.9906	-80.3497	75.0	10.0	110.0	12.00	41.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 102	S02	40.9906	-80.3497	100.0	8.0	533.0	7.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 102	S02	40.9906	-80.3497	100.0	8.0	533.0	5.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 102	Z01	40.9906	-80.3497	2.0	4.0	72.0	1.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 102	Z01	40.9906	-80.3497	2.0	4.0	72.0	1.00	0.00
Lawrence	ELLWOOD QUALITY STEELS CO/NEW CASTLE PL	T 132	Z01	40.9906	-80.3497	2.0	3.0	72.0	2.00	0.00
Lawrence	ESSROC/BESSEMER	501	S501	40.9745	-80.4901	205.0	11.0	350.0	347.00	101.00
Lawrence	ESSROC/BESSEMER	502	S502	40.9745	-80.4901	200.0	15.0	400.0	856.00	689.00
Lawrence	GENERIC UNIT	GCC42	41	40.9383	-80.3683	62.0	10.0	585.0	58.02	0.00
Lawrence	INMETCO/ELLWOOD CITY	1	Z001	40.8577	-80.2763	2.0	1.0	72.0	2.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	102	S102	40.8577	-80.2763	69.0	3.0	135.0	13.00	4.00
Lawrence	INMETCO/ELLWOOD CITY	102	S102	40.8577	-80.2763	69.0	3.0	135.0	13.00	4.00
Lawrence	INMETCO/ELLWOOD CITY	103	S103	40.8577	-80.2763	73.0	5.0	165.0	17.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	103	S103A	40.8577	-80.2763	72.0	10.0	265.0	9.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	105	Z105	40.8577	-80.2763	2.0	2.0	72.0	4.00	0.00
Lawrence	INMETCO/ELLWOOD CITY	107	S107	40.8577	-80.2763	34.0	2.0	147.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F1	40.9912	-80.3527	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F2	40.9912	-80.3527	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F3	40.9912	-80.3527	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	7F4	40.9912	-80.3527	24.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	102	Z100	40.9912	-80.3527	2.0	2.0	72.0	2.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	103	7F8	40.9912	-80.3527	13.0	3.0	180.0	1.00	0.00
Lawrence	NORTH AMER FORGEMASTERS/NEW CASTLE	103	7F9	40.9912	-80.3527	13.0	3.0	180.0	1.00	0.00
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	33	T01	40.9380	-80.3679	401.0	15.9	335.0	1066.52	4471.60
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	34	T01	40.9380	-80.3679	401.0	15.9	335.0	983.24	4439.06
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	35	T01	40.9380	-80.3679	401.0	15.9	335.0	1505.12	6151.67
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	36	S06	40.938	-80.3679	31.0	2.0	642.0	1.00	0.00
Lawrence	ORION POWER MIDWEST /NEW CASTLE PLT	37	S07	40.938	-80.3679	31.0	2.0	642.0	1.00	0.00
Lawrence	US CAN CO/NEW CASTLE PLANT	C01	S-02	40.9812	-80.3042	26.0	4.0	460.0	1.00	0.00
Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POW	E 034	S04	40.2213	-79.9688	375.0	20.0	302.0	3201.51	1526.92
Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POW	E 035	S05	40.2213	-79.9688	150.0	4.0	385.0	2.00	0.00
Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	S 031	S10	40.2581	-80.2039	30.0	5.0	350.0	1.00	0.00
Washington	ALLEGHENY LUDLUM COR/HOUSTON-FITCH WORK	S 109	S09	40.2581	-80.2039	30.0	5.0	350.0	5.00	0.00
Washington	ALLEGHENY LUDLUM COR/WASHINGTON FLATROL	L 109	Z01	40.1856	-80.2717	2.0	2.0	72.0	3.00	0.00
Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	S 101	S01	40.2695	-80.4333	27.0	1.0	745.0	10.00	0.00
Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	S 102	S02	40.2695	-80.4333	27.0	1.0	745.0	10.00	0.00
Washington	COLUMBIA GAS TRANS CORP/DONEGAL COMPRES	S 103	S03	40.2695	-80.4333	37.0	2.0	430.0	1.00	0.00
Washington	DOMINION PEOPLES/GIBSON STA	101	S01	40.1442	-79.9639	25.0	1.0	680.0	22.00	0.00
Washington	DOMINION PEOPLES/GIBSON STA	102	S02	40.1442	-79.9639	25.0	1.0	680.0	3.00	0.00
Washington	DYNO NOBEL INC/DONORA	31	S031	40.187	-79.8549	50.0	3.0	325.0	9.00	0.00
Washington	DYNO NOBEL INC/DONORA	33	S033	40.187	-79.8549	45.0	3.0	525.0	2.00	0.00
Washington	DYNO NOBEL INC/DONORA	101	S01	40.187	-79.8549	107.0	4.0	386.0	301.00	0.00
Washington	EQUITRANS INC/HARTSON	101	S01	40.2534	-79.9627	35.0	2.0	400.0	10.00	0.00
Washington	EQUITRANS INC/HARTSON	102	S01	40.2534	-79.9627	35.0	2.0	400.0	11.00	0.00
Washington	EQUITRANS INC/HARTSON	103	S01	40.2534	-79.9627	35.0	2.0	400.0	15.00	0.00
Washington	EQUITRANS INC/HARTSON	105	SO5	40.2534	-79.9627	16.0	2.0	500.0	1.00	0.00
Washington	FALCON PLASTICS/WASHINGTON	103	S03	40.3223	-80.2167	40.0	1.0	350.0	1.00	0.00
Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	33	S07	40.1808	-79.9255	41.0	2.0	425.0	8.00	0.00
Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	101	S06	40.1808	-79.9255	54.0	0.0	68.0	1.00	8.00
Washington	FLEXSYS AMER LTD PAR/MONONGAHELA	103	S05	40.1808	-79.9255	112.0	3.0	1202.0	3.00	0.00
Washington	GENERIC UNIT	GGT42	41	40.4664	-80.4310	62.0	10.0	585.0	2.45	0.00
Washington	JESSOP STEEL CO/WASHINGTON	31	S031A	40.1731	-80.2744	20.0	1.0	430.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110A	40.1731	-80.2744	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110A	40.1731	-80.2744	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110B	40.1731	-80.2744	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110B	40.1731	-80.2744	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110C	40.1731	-80.2744	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110C	40.1731	-80.2744	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110D	40.1731	-80.2744	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110D	40.1731	-80.2744	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110E	40.1731	-80.2744	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110E	40.1731	-80.2744	50.0	5.0	600.0	2.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Washington	JESSOP STEEL CO/WASHINGTON	110	W110F	40.1731	-80.2744	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110F	40.1731	-80.2744	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110G	40.1731	-80.2744	50.0	5.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	110	W110G	40.1731	-80.2744	50.0	5.0	600.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	126	Z01	40.1731	-80.2744	5.0	4.0	72.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	140	S140	40.1731	-80.2744	2.0	4.0	72.0	10.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	150	S150	40.1731	-80.2744	57.0	3.0	533.0	2.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	150	S150	40.1731	-80.2744	57.0	3.0	533.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	160	S160	40.1731	-80.2744	57.0	3.0	533.0	4.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	160	S160	40.1731	-80.2744	57.0	3.0	533.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	180	S180	40.1731	-80.2744	35.0	3.0	600.0	1.00	1.00
Washington	JESSOP STEEL CO/WASHINGTON	180	S180	40.1731	-80.2744	35.0	3.0	600.0	1.00	0.00
Washington	JESSOP STEEL CO/WASHINGTON	220	Z220	40.1731	-80.2744	37.0	2.0	430.0	4.00	0.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	101	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	101	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	102	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	102	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	1.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	103	S01	40.3635	-80.401	503.0	8.0	123.0	1.00	2.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	103	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	2.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	104	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	4.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	104	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	4.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	105	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	5.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	105	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	5.00
Washington	LANGELOTH METALLURGICAL/LANGELOTH	107	S01	40.3635	-80.401	503.0	8.0	123.0	0.00	9.00
Washington	ORION POWER MIDWEST/ELRAMA	31	S01	40.2531	-79.9182	392.0	26.0	302.0	1271.96	999.41
Washington	ORION POWER MIDWEST/ELRAMA	32	S01	40.2531	-79.9182	392.0	26.0	302.0	1226.95	964.05
Washington	ORION POWER MIDWEST/ELRAMA	33	S01	40.2531	-79.9182	392.0	26.0	302.0	1398.38	1098.76
Washington	ORION POWER MIDWEST/ELRAMA	34	S01	40.2531	-79.9182	392.0	26.0	302.0	1950.33	1532.44
Washington	PA DPW/WESTERN STATE SCH & HOSP	32	S02	40.2767	-80.1684	60.0	3.0	600.0	1.00	0.00
Washington	PA DPW/WESTERN STATE SCH & HOSP	33	S03	40.2767	-80.1684	60.0	3.0	600.0	1.00	0.00
Washington	PA TRANSFORMER TECH /CANONSBURG	36	SO6	40.2691	-80.1703	39.0	2.0	425.0	5.00	0.00
Washington	THERM O ROCK INC/NEW EAGLE PLT	104	S05	40.2065	-79.9425	33.0	2.0	254.0	1.00	0.00
Washington	THERM O ROCK INC/NEW EAGLE PLT	105	S08	40.2065	-79.9425	33.0	2.0	254.0	1.00	0.00
Washington	THERM O ROCK INC/NEW EAGLE PLT	106	S09	40.2065	-79.9425	33.0	2.0	254.0	1.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	101	S01	40.399	-80.4063	85.0	12.0	171.0	14.00	1.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	101	Z03	40.399	-80.4063	79.0	4.0	389.0	1.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	103	Z01	40.399	-80.4063	40.0	4.0	72.0	19.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	104	Z04	40.399	-80.4063	2.0	6.0	72.0	25.00	0.00
Washington	UNION ELEC STEEL CORP/HARMON CREEK	105	Z03	40.399	-80.4063	79.0	4.0	389.0	3.00	0.00
Washington	USA WASTE SVC INC/USA SOUTH HILLS LDFL	I 103	Z03	40.27	-79.9885	2.0	2.0	72.0	9.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	37	S037	40.0882	-79.8423	37.0	3.0	300.0	2.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Washington	WHEELING PGH STEEL/ALLENPORT	38	S038	40.0882	-79.8423	37.0	3.0	300.0	2.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	39	Z03	40.0882	-79.8423	2.0	1.0	72.0	2.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	102	S102	40.0882	-79.8423	20.0	1.0	1300.0	26.00	0.00
Washington	WHEELING PGH STEEL/ALLENPORT	103	S103	40.0882	-79.8423	57.0	3.0	533.0	4.00	0.00
Washington	WORLD KITCHEN INC/CHARLEROI	107	S05	40.1384	-79.8956	100.0	2.0	670.0	5.00	5.00
Washington	WORLD KITCHEN INC/CHARLEROI	107	S24	40.1384	-79.8956	80.0	3.0	347.0	10.00	9.00
Washington	WORLD KITCHEN INC/CHARLEROI	130	Z01	40.1384	-79.8956	2.0	3.0	72.0	12.00	0.00
Westmoreland	ALCOA INC/UPPER BURREL	31	S01	40.5548	-79.6548	35.0	1.0	436.0	14.00	0.00
Westmoreland	ALLEGHENY FOUNDRY CO/BOLIVAR	101	S01	40.3974	-79.1443	78.0	6.0	263.0	0.00	2.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	31	S031	40.6053	-79.5732	55.0	2.0	325.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	32	S032	40.6053	-79.5732	55.0	2.0	325.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	116	Z116	40.6053	-79.5732	2.0	3.0	72.0	14.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	120A	S120A	40.6053	-79.5732	50.0	6.0	1000.0	11.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	120A	S120A	40.6053	-79.5732	50.0	6.0	1000.0	8.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	120D	S120	40.6053	-79.5732	70.0	4.0	120.0	98.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121A	Z121A	40.6053	-79.5732	2.0	3.0	72.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121B	S121B	40.6053	-79.5732	16.0	3.0	1000.0	13.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121B	S121B	40.6053	-79.5732	16.0	3.0	1000.0	10.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/VANDERGRIFT	121E	S121E	40.6053	-79.5732	60.0	2.0	110.0	36.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	33	S033	40.6401	-79.6112	43.0	4.0	300.0	5.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	35	S035A	40.6401	-79.6112	55.0	2.0	430.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	36	S036A	40.6401	-79.6112	55.0	2.0	430.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117A	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117B	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117C	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117D	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	117	S117E	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118A	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118B	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118C	40.6401	-79.6112	50.0	4.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118D	40.6401	-79.6112	58.0	3.0	436.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118E	40.6401	-79.6112	50.0	4.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	118	S118F	40.6401	-79.6112	58.0	3.0	436.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	134	Z134	40.6401	-79.6112	20.0	3.0	72.0	3.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	103C	S103	40.6401	-79.6112	32.0	2.0	120.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	105A	Z105A	40.6401	-79.6112	2.0	4.0	72.0	9.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	105A	Z105A	40.6401	-79.6112	2.0	4.0	72.0	4.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	105E	S105E	40.6401	-79.6112	55.0	3.0	99.0	12.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112C	Z112C	40.6401	-79.6112	10.0	3.0	72.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21A	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21A	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21B	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21B	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21C	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112D	S21C	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22A	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22B	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22C	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22D	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22E	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	112E	S22F	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113C	Z113C	40.6401	-79.6112	2.0	3.0	72.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25A	40.6401	-79.6112	50.0	2.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25A	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25B	40.6401	-79.6112	50.0	2.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25B	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25C	40.6401	-79.6112	50.0	2.0	1000.0	2.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113D	S25C	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18A	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18B	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18C	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18D	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18E	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18F	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLEGHENY LUDLUM CORP/WEST LEECHBURG	113E	S18G	40.6401	-79.6112	50.0	2.0	1000.0	1.00	0.00
Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	101	S01	40.3264	-79.3733	25.0	6.0	99.0	2.00	0.00
Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	102	S02	40.3264	-79.3733	58.0	4.0	262.0	1.00	1.00
Westmoreland	ALLVAC TELEDYNE PKG/LATROBE	103	Z03	40.3264	-79.3733	2.0	4.0	72.0	10.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	31	S031	40.1908	-79.5762	30.0	2.0	310.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	32	S032	40.1908	-79.5762	30.0	2.0	310.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	101	S101	40.1908	-79.5762	175.0	4.0	575.0	20.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	101	S101	40.1908	-79.5762	175.0	4.0	575.0	73.00	1.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	102	S102	40.1908	-79.5762	58.0	3.0	436.0	15.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	102	S102	40.1908	-79.5762	58.0	3.0	436.0	31.00	1.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	103	S103	40.1908	-79.5762	76.0	2.0	400.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	104	S104	40.1908	-79.5762	76.0	2.0	400.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	105	S105	40.1908	-79.5762	76.0	2.0	400.0	2.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	106	S106	40.1908	-79.5762	76.0	1.0	415.0	1.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	107	S107	40.1908	-79.5762	76.0	1.0	415.0	1.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	110	S110	40.1908	-79.5762	37.0	2.0	442.0	6.00	0.00
Westmoreland	AMERICAN VIDEO GLASS CO LLC/MT PLEASANT	113	S113	40.1908	-79.5762	68.0	4.0	415.0	3.00	0.00
Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	32	S02	40.3277	-79.3585	75.0	2.0	250.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	101	S01A	40.3277	-79.3585	36.0	2.0	300.0	1.00	0.00
Westmoreland	CHESTNUT RIDGE FOAM /LATROBE PLT	107	S07	40.3277	-79.3585	36.0	2.0	300.0	1.00	0.00
Westmoreland	CK COMPOSITES INC/MT PLEASANT	31	S031	40.1299	-79.5341	41.0	2.0	425.0	1.00	0.00
Westmoreland	COLUMBIA GAS TRANS C/DELMONT COMPRESSOR	101	S01	40.3871	-79.5638	27.0	1.0	745.0	1.00	0.00
Westmoreland	DOMINION PEOPLES/LATROBE STATION	101	S01	40.3073	-79.4371	27.0	1.0	745.0	31.00	0.00
Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	101	S01	40.3004	-79.6193	30.0	2.0	680.0	19.00	0.00
Westmoreland	DOMINION TRANS INC/LINCOLN HEIGHTS	104	S04	40.3004	-79.6193	30.0	2.0	680.0	5.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	31	S13	40.4029	-79.559	32.0	2.0	450.0	7.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	32	S14	40.4029	-79.559	32.0	2.0	450.0	7.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	101	S01	40.4029	-79.559	29.0	2.0	600.0	103.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	102	S02	40.4029	-79.559	29.0	2.0	600.0	60.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	103	S03	40.4029	-79.559	29.0	2.0	600.0	74.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	104	S04	40.4029	-79.559	29.0	2.0	600.0	89.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	105	S05	40.4029	-79.559	29.0	2.0	600.0	67.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	106	S06	40.4029	-79.559	29.0	2.0	600.0	21.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	107	S07	40.4029	-79.559	29.0	2.0	600.0	70.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	108	S08	40.4029	-79.559	29.0	2.0	600.0	40.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	109	S09	40.4029	-79.559	29.0	2.0	600.0	20.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	110	S10	40.4029	-79.559	29.0	2.0	600.0	27.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	111	S11	40.4029	-79.559	29.0	2.0	600.0	16.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	112	S12	40.4029	-79.559	29.0	2.0	600.0	22.00	0.00
Westmoreland	DOMINION TRANS INC/OAKFORD STA	113	S15	40.4029	-79.559	15.0	2.0	300.0	1.00	0.00
Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	101	S01	40.3844	-79.548	49.0	5.0	750.0	144.00	0.00
Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	102	S02	40.3844	-79.548	49.0	5.0	750.0	103.00	0.00
Westmoreland	DOMINION TRANS INC/SOUTH OAKFORD STA	103	S05	40.3844	-79.548	36.0	2.0	692.0	1.00	0.00
Westmoreland	DOMINION TRANS INC/TONKIN STA	102	S02	40.4624	-79.6365	27.0	1.0	745.0	40.00	0.00
Westmoreland	DURA BOND IND INC/EXPORT STEEL PLT	101SA	S01	40.4264	-79.6275	30.0	1.0	70.0	1.00	0.00
Westmoreland	DURALOY TECHNOLOGIES/SCOTTDALE	111	S111	40.0991	-79.5863	41.0	2.0	425.0	3.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	31	S02	40.3363	-79.6108	68.0	3.0	1500.0	1.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	34	Z03	40.3363	-79.6108	35.0	1.0	72.0	1.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	36	S03	40.3363	-79.6108	68.0	3.0	1500.0	6.00	0.00
Westmoreland	ELLIOTT TURBOMACHINERY/JEANNETTE	101	Z01	40.3363	-79.6108	35.0	2.0	72.0	14.00	0.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	101	S02	40.1252	-79.5858	50.0	11.0	1500.0	13.00	1.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	101	Z05	40.1252	-79.5858	2.0	2.0	72.0	4.00	0.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	104	S02	40.1252	-79.5858	50.0	11.0	1500.0	5.00	2.00
Westmoreland	GREENRIDGE RECLAMATION LLC/E HUNTINGDON	104	S02	40.1252	-79.5858	50.0	11.0	1500.0	6.00	2.00
Westmoreland	HUNTINGTON FOAM PITT/MT PLEASANT	31	S031	40.1488	-79.6029	68.0	4.0	415.0	1.00	0.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	32	S11	40.1617	-79.8986	126.0	6.0	325.0	1.00	0.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	32	S11	40.1617	-79.8986	126.0	6.0	325.0	50.00	66.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	802	S02	40.1617	-79.8986	100.0	5.0	240.0	1.00	7.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	802	Z06	40.1617	-79.8986	25.0	7.0	72.0	1.00	7.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	805	S06	40.1617	-79.8986	261.0	8.0	600.0	334.00	105.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	806	Z07	40.1617	-79.8986	25.0	9.0	72.0	0.00	10.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	808	Z06	40.1617	-79.8986	25.0	5.0	72.0	0.00	26.00
Westmoreland	KOPPERS IND/MONESSEN COKE PLT	809	S09	40.1617	-79.8986	400.0	2.0	350.0	23.00	58.00
Westmoreland	LATROBE AREA HOSP/LATROBE	31	S031	40.3218	-79.3922	110.0	4.0	500.0	5.00	0.00
Westmoreland	LATROBE AREA HOSP/LATROBE	32	S031	40.3218	-79.3922	110.0	4.0	500.0	1.00	0.00
Westmoreland	LATROBE BREWING CO/LATROBE	31	S31	40.3208	-79.3887	58.0	3.0	436.0	3.00	0.00
Westmoreland	NATL ROLL CO/AVONMORE	31	S03	40.5311	-79.4692	35.0	1.0	800.0	10.00	0.00
Westmoreland	NATL ROLL CO/AVONMORE	101	S01	40.5311	-79.4692	40.0	4.0	70.0	1.00	1.00
Westmoreland	NATL ROLL CO/AVONMORE	105	S07	40.5311	-79.4692	35.0	1.0	88.0	1.00	0.00
Westmoreland	NATL ROLL CO/AVONMORE	110	Z10	40.5311	-79.4692	2.0	1.0	72.0	6.00	0.00
Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	31	S02	40.3235	-79.6185	58.0	3.0	436.0	1.00	0.00
Westmoreland	OMNOVA SOLUTIONS INC/JEANETTE PLT	32	S03	40.3235	-79.6185	58.0	3.0	436.0	1.00	0.00
Westmoreland	PA DPW/TORRANCE STATE HOSP	31	S01	40.3978	-79.2586	65.0	5.0	350.0	4.00	13.00
Westmoreland	PA DPW/TORRANCE STATE HOSP	32	S02	40.3978	-79.2586	250.0	12.0	300.0	25.00	86.00
Westmoreland	PA DPW/TORRANCE STATE HOSP	34	S02	40.3978	-79.2586	250.0	12.0	300.0	7.00	25.00
Westmoreland	POLY HI SOLIDUR INC/DELMONT PLT	31	S01	40.4251	-79.5735	58.0	3.0	436.0	4.00	0.00
Westmoreland	RANBAR ELEC MATERIALS/MANOR PROD	104	S02	40.1627	-79.6636	35.0	3.0	442.0	2.00	0.00
Westmoreland	SONY CHEM CORP OF AM/PGH MFG CTR	101	S01	40.1868	-79.5745	31.0	5.0	750.0	3.00	0.00
Westmoreland	SONY CHEM CORP OF AM/PGH MFG CTR	101	S01	40.1868	-79.5745	31.0	5.0	750.0	3.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	31	S031	40.1868	-79.5769	40.0	2.0	635.0	2.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	33	S033	40.1868	-79.5769	43.0	3.0	425.0	3.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	34	S034	40.1868	-79.5769	43.0	3.0	425.0	4.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	47	S047	40.1868	-79.5769	41.0	3.0	400.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	51	S051	40.1868	-79.5769	35.0	1.0	425.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	122	S036	40.1868	-79.5769	37.0	2.0	442.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	123	S037	40.1868	-79.5769	31.0	1.0	442.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	127	S040	40.1868	-79.5769	40.0	4.0	260.0	3.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	128	S041	40.1868	-79.5769	43.0	2.0	260.0	1.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	129	S042	40.1868	-79.5769	42.0	1.0	425.0	2.00	0.00
Westmoreland	SONY ELECTRONICS INC/NEW STANTON	132	S048	40.1868	-79.5769	40.0	2.0	400.0	2.00	0.00
Westmoreland	ST GEORGE CRYSTAL LTD/JEANNETTE	101	S01	40.3281	-79.6039	50.0	2.0	400.0	4.00	21.00
Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	31	S031	40.2948	-79.3964	58.0	3.0	436.0	6.00	12.00
Westmoreland	ST VINCENT COLL/LATROBE CAMPUS	32	S031	40.2948	-79.3964	58.0	3.0	436.0	5.00	10.00
Westmoreland	STD STEEL/LATROBE	31	S04	40.3076	-79.3806	200.0	10.0	325.0	4.00	0.00
Westmoreland	STD STEEL/LATROBE	33	S04	40.3076	-79.3806	200.0	10.0	325.0	4.00	0.00
Westmoreland	STD STEEL/LATROBE	101	S01	40.3076	-79.3806	85.0	12.0	171.0	7.00	1.00
Westmoreland	STD STEEL/LATROBE	105	Z05	40.3076	-79.3806	2.0	3.0	72.0	5.00	0.00
Westmoreland	STD STEEL/LATROBE	106	S06	40.3076	-79.3806	37.0	2.0	430.0	13.00	0.00
Westmoreland	STD STEEL/LATROBE	107	S07	40.3076	-79.3806	34.0	2.0	205.0	1.00	0.00
Westmoreland	STD STEEL/LATROBE	109	S09	40.3076	-79.3806	37.0	2.0	430.0	1.00	0.00

County	Facility Name	Device ID	Stack ID	Lat	Lon	Ht (ft)	Diam (ft)	Temp (F)	NOX (TPY)	SO2 (TPY)
Westmoreland	SUMMERILL TUBE CORP/SCOTTDALE PLT	103	S103	40.1072	-79.5841	58.0	3.0	436.0	1.00	0.00
Westmoreland	SUNOCO PARTNERS M&T/DELMONT FACILITY	101	S03	40.4287	-79.5743	25.0	3.0	294.0	0.00	3.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	102	S02	40.6377	-79.5319	40.0	5.0	693.0	145.00	1.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	104	S04	40.6377	-79.5319	56.0	1.0	960.0	7.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	105	S05	40.6377	-79.5319	56.0	1.0	960.0	3.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	106	S06	40.6377	-79.5319	56.0	1.0	960.0	4.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	107	S07	40.6377	-79.5319	56.0	1.0	960.0	3.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	108	S08	40.6377	-79.5319	56.0	1.0	960.0	4.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	109	S09	40.6377	-79.5319	56.0	1.0	960.0	4.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	110	S10	40.6377	-79.5319	27.0	1.0	745.0	8.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	111	S11	40.6377	-79.5319	27.0	1.0	745.0	8.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	112	S12	40.6377	-79.5319	27.0	1.0	745.0	7.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	113	S13	40.6377	-79.5319	27.0	1.0	745.0	4.00	0.00
Westmoreland	TEXAS EASTERN TRANS /DELMONT	118	S118	40.6377	-79.5319	40.0	5.0	693.0	21.00	1.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	31	S31	40.3036	-79.3705	40.0	5.0	436.0	4.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	43	S43	40.3036	-79.3705	37.0	2.0	430.0	2.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	101	S56	40.3036	-79.3705	75.0	10.0	200.0	12.00	17.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	102	S03	40.3036	-79.3705	50.0	6.0	100.0	5.00	17.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	115	S32	40.3036	-79.3705	2.0	3.0	72.0	6.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	116	S44	40.3036	-79.3705	12.0	1.0	400.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	117	S45	40.3036	-79.3705	12.0	1.0	400.0	3.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	118	S33	40.3036	-79.3705	2.0	3.0	72.0	24.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	120	S47	40.3036	-79.3705	12.0	1.0	400.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	121	S48	40.3036	-79.3705	12.0	1.0	400.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	122	S34	40.3036	-79.3705	2.0	3.0	72.0	11.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	123	S35	40.3036	-79.3705	51.0	3.0	357.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	125	S37	40.3036	-79.3705	51.0	3.0	357.0	1.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	126	S38	40.3036	-79.3705	2.0	3.0	72.0	5.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	128	S40	40.3036	-79.3705	2.0	3.0	72.0	8.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	131	S42	40.3036	-79.3705	51.0	3.0	357.0	3.00	0.00
Westmoreland	TIMKEN LATROBE STEEL CO/LATROBE PLT	132	S51	40.3036	-79.3705	60.0	3.0	400.0	1.00	0.00
Westmoreland	USA VALLEY FAC INC/VALLEY LDFL	101	S01	40.3882	-79.6743	35.0	10.0	1600.0	2.00	0.00
Westmoreland	WESTMORELAND WASTE LLC/SANITARY LDFL	101	S01	40.1435	-79.8566	15.0	3.0	200.0	3.00	0.00

$PM_{2.5}$ SIP

Appendix I

Dispersion Model Files and Documentation

I-1: 20 km Modeled Source Groups

I-2: 150 km Modeled Source Groups

I-3: CALMET Settings

I-4: CALMET Differences from FLM

I-5: CALPUFF Settings

I-6: Battery Flow Rates and Plume Rise Treatment

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[NOTE: Model input and output files can be found on the accompanying SIP DVD.]

I-1: 20 km Modeled Source Groups

Source groups within the 20 km domain around the Liberty monitoring site were revised for source type, emissions, and locations as necessary. Building parameters were added to sources within or adjacent to the Liberty-Clairton Nonattainment Area. All source groups were modeled in CALPUFF and subsequently combined with CMAQ modeled results.

Sources as provided in the MANE-VU/CMAQ inventory were modeled throughout the CMAQ-equivalent receptor grid, and grid averages were subtracted from the CMAQ modeled quarterly averages. Sources were then corrected and modeled as the ACHD inventory throughout the Liberty and Clairton nearby receptors, and these averages were then added to the CMAQ modeled averages.

Since sources within the 20 km domain have the greatest impacts on the Liberty-Clairton area, many corrections were made to both the baseline and future projected ACHD nearby inventories in order to more accurately simulate dispersion in the area.

Modeled 20 km source groups are given below in alphabetical order by source group (some by facility name). File coding for each modeling input file are shown in bullets. Names were kept 8 characters or less in length, with the 2 characters on the far right indicating the modeling timeframe and receptor grid.

- BE = Baseline Case, Equivalent Receptor Grid
- FE = Future Projected Case, Equivalent Receptor Grid
- BN = Baseline Case, Nearby Receptor Grid
- FN = Future Projected Case, Nearby Receptor Grid

Each modeled source group corresponds to 3 modeled files: an input file (*.inp), a list file (*.lst), and an output file (*.dat).

AKJ

AKJ Industries (on US Steel Clairton property), minor source not included in the MANE-VU inventory but was included in the ACHD inventory as part of PM2.5 RACT analysis.

- AKJBN (also used for future case)

20km Background

Sources outside the immediate area of Liberty-Clairton. Includes WHEMCO, Galvtech, Bettis, etc. Some corrections of coordinates were made to the nearby receptor runs.

- BACKGRBE
- BACKGRBN
- BACKGRFE
- BACKGRFN

Clairton Coke Batteries

US Steel Clairton Coke Batteries. These sources were a series of stacks in the MANE-VU inventory. They were modeled as buoyant line sources in the ACHD inventory. The proposed C Battery was included in the future case, while Batteries 7-9 were removed. For batteries that do not change configuration in future case, the base run files were repeated for the future case.

- BATTSBE
- BATTSFE
- BATT1BN (Batteries 1-3) – also used for future case
- BATT7BN (Batteries 7-9) – removed in future case
- BATT13BN (Batteries 13-15) – also used for future case
- BATT19BN (Batteries 19-20)
- BATT19FN (Batteries 19-20)
- BBATTBN
- BBATTFN
- CBATTFN – new in future case

Clairton Boilers

US Steel Clairton Boilers. Emissions and coordinates changed in ACHD inventory nearby runs, with building parameters added. No change from base to future for nearby runs.

- CLBLRSBE
- CLBLRSFE
- CLBLRSBN (also used for future case)

Clairton Combustion Stacks

US Steel Clairton Battery Underfire Combustion Stacks. The combustion stacks were modeled both as multiple stack source groups and by individual stack. Emissions and coordinates were changed in ACHD inventory nearby runs, with building parameters added. Proposed modifications were included in future case nearby receptor runs.

- CLCOMBBE
- CLCOMBFE
- CLCOMBBN
  - COMB1BN
  - COMB2BN
  - COMB3BN
  - COMB7BN – removed in future case
  - COMB8BN – removed in future case
  - COMB9BN – removed in future case
  - COMB13BN
  - COMB14BN
  - COMB15BN
  - COMB19BN
  - COMB20BN
  - COMBBBN
- CLCOMBFN
  - COMB1BN

- COMB2BN
- COMB3BN
- COMB13BN
- COMB14BN
- COMB15BN
- COMB19FN – revised in future case
- COMB20BN
- COMBBFN – revised in future case
- COMBCFN – new in future case

Clairton PEC Baghouses

US Steel Clairton PEC Baghouse Stacks. The PEC baghouse stacks were modeled both as multiple-stack source groups and by individual stack. Emissions and coordinates changed in ACHD inventory nearby runs, with building parameters were added. Proposed modifications included in future case nearby runs.

- CLPECBBE
- CLPECBFE
- CLPECBBN
  - PECB1BN (PEC 1-3)
  - PECB7BN (PEC 7-9) – removed in future case
  - PECB13BN (PEC 13-15)
  - PECB19BN (PEC 19-20)
  - PECBBBN
- CLPECBFN
  - PECB1BN (PEC 1-3)
  - PECB13BN (PEC 13-15)
  - PECB19BN (PEC 19-20)
  - PECBBFN – revised in future case
  - PECBCFN – new in future case

Clairton Quenches

US Steel Clairton Quench Towers. Emissions and coordinates changed to ACHD inventory nearby runs, building parameters were added. Includes new towers for 5 and 7 in future case. Proposed modifications included in future case nearby runs.

- QNCHSBE
- QNCHSFE
- QNCH1BN
- QNCH1FN – revised in future case
- QNCH3BN – removed for future case
- QNCH5BN
- QNCH5AFN – new for future case
- QNCH7BN
- QNCH7AFN – new for future case
- QNCHBBN – also used for future case
- QNCHCFN – new for future case

Clairton Fugitives

US Steel Clairton Fugitives (ambient temp.) from the MANE-VU inventory, given as stacks. Modeled as specific source types in nearby runs. Battery-temperature fugitives not included (included in battery source group).

- CLFUGBE
- CLFUGFE

US Steel Clairton Fugitives, as modeled in ACHD inventory for nearby runs. Includes volume sources, area sources, and stacks. Includes minor changes based on C & D modifications.

- CLMATLBN – Misc. material handling (screening, ball mills, conveying, etc.)
- CLMATLFN – Misc. material handling, revised based on new battery configuration

- CLMOBLBN – Heavy duty vehicles and tug boats, with MANE-VU stack since no better method for mobile sources
- CLMOBLFN – Heavy duty vehicles and tug boats based on 2008 fuel usage

- CLMISCBN – Misc. sources: cooling towers, SCOT desulfurization, wastewater ammonia flare, blasting (same for future case)

- CLROADBN – Industrial plant roads (same for future case)

- CLTRANBN – Coal and coke transfer and pile erosion
- CLTRANFN – Coal and coke transfer and pile erosion, revised based on new battery configuration

CP Industries

CP Industries, in McKeesport at Christy Park. Building parameters added to nearby runs.

- CPBE
- CPFE
- CPBN
- CPFN

Dura-Bond

Dura-Bond, in Liberty Borough. Building parameters added to nearby runs.

- DURABDBE
- DURABDFE
- DURABDBN
- DURABDFN

Eastman/Sanyo

Eastman and Sanyo in West Elizabeth.

- EASTMNBE
- EASTMNFE

- EASTMNBN
- EASTMNFN

ELG

ELG Metals in Liberty, minor source not included in the MANE-VU inventory but was included in the ACHD inventory as part of PM2.5 RACT analysis.

- ELGBN (also used for future case)

Elrama

Reliant Elrama power plant in Union Twp. Nearby runs include corrected condensables for base case and projected emissions based on stack tests for future case

- ELRAMABE
- ELRAMAFE
- ELRAMABN
- ELRAMAFN

Edgar Thomson

US Steel Edgar Thomson. Coordinates corrected for nearby runs. Although distant from Liberty-Clairton, building parameters were available and added to nearby runs.

- ETBE
- ETFE
- ETBN
- ETFN

General Motors

General Motors in West Mifflin. Currently closed as of mid-2009, but kept in the model due to unknown future plans for property.

- GMBE
- GMFE
- GMBN
- GMFN

Guardian

Guardian glass in West Elizabeth.

- GUARDNBE
- GUARDNFE
- GUARDNBN
- GUARDNFN

Irvin

US Steel Irvin in West Mifflin. Building parameters added for nearby runs.

- IRVBE
- IRVFE
- IRVBN
- IRVFN

Jefferson

Jefferson Hospital in Jefferson Hills. Coordinates were outside the 20 km domain in MANE-VU inventory. Added to 20 km domain from the 150 km domain for nearby runs.

- JEFFHSBN
- JEFFHSFN

Kelly Run

Kelly Run landfill in Forward Twp. Coordinates corrected for nearby runs.

- KELLRNBE
- KELLRNFE
- KELLRNBN
- KELLRNFN

Kinder Morgan

Kinder Morgan Terminal in Dravosburg. Also contains Marsh Asphalt in base case (removed from future case, due to shut down of source). Coordinates corrected for nearby runs.

- KINDERBE
- KINDERFE
- KINDERBN
- KINDERFN

Koppers

Koppers, adjacent to US Steel Clairton. Coordinates corrected and building parameters added for nearby runs.

- KOPPRBE
- KOPPRFE
- KOPPRBN
- KOPPRFN

Liberty Pultrusion

Liberty Pultrusion in West Mifflin.

- LIBPULBE
- LIBPULFE
- LIBPULBN
- LIBPULFN

Mon Valley Transportation Center

Mon Valley Transportation Center in Glassport, minor source not included in the MANE-VU inventory but was included in the ACHD inventory as part of PM2.5 RACT analysis. Now closed, removed in future case.

- MVTCBN (removed in future case)

Mid-Continent

Mid-Continent Coal and Coke in Clairton. Coordinates corrected for nearby runs.

- MIDCONBE
- MIDCONFE
- MIDCONBN
- MIDCONFN

Nash Elmo

Nash Elmo in Lincoln Borough.

- NASHBE
- NASHFE
- NASHBN
- NASHFN

Penn Coil

Penn Coil in Glassport. Plant moved from outside 20 km domain to Glassport 2001. Added to 20 km domain from the 150 km domain for nearby runs.

- PCOILBN
- PCOILFN

Precoat

Precoat in McKeesport. Coordinates corrected and building parameters added for nearby runs.

- PRECOTBE
- PRECOTFE
- PRECOTBN
- PRECOTFN

Clairton Slag

Clairton Slag in West Elizabeth. Emissions corrected to ACHD inventory for nearby runs.

- SLAGBE
- SLAGFE
- SLAGBN
- SLAGFN

UPMC McKeesport

UPMC McKeesport. Coordinates corrected for nearby runs.

- UPMCMCBE
- UPMCMCFE
- UPMCMCBN
- UPMCMCFN

I-2: 150 km Modeled Source Groups

Source groups within the 150 km domain for the SW PA modeling area (includes portions of OH, WV, and MD) were revised for source type, emissions, and locations as necessary. All source groups were modeled in CALPUFF and subsequently combined with CMAQ modeled results.

Sources as provided in the MANE-VU/CMAQ inventory were modeled throughout the CMAQ-equivalent receptor grid, and grid averages were subtracted from the CMAQ modeled quarterly values. Sources were then corrected and modeled as the ACHD inventory throughout the Liberty and Clairton nearby receptors, and these averages were then added to the CMAQ modeled averages.

Large coal-fired electric generating units (EGUs) were modeled as specific source groups to examine their potentially larger impacts in the Liberty-Clairton area. Large emission rates, tall stacks, and high temperatures are favorable for long-range transport. Several corrections were made to both the baseline and future projected ACHD nearby inventories.

Non-EGU industrial sources and natural gas-only EGUs outside the 20 km domain were generally considered to be background sources for primary particulates in the Liberty-Clairton area. Therefore, most sources were aggregated into geographic source groups, and little changes were made to these emissions or coordinates.

Modeled 150 km source groups are given below in alphabetical order by source group (some by facility name). File coding for each modeling input file are shown in bullets. Names were kept 8 characters or less in length, with the 2 characters on the far right indicating the modeling timeframe and receptor grid.

- BE = Baseline Case, Equivalent Receptor Grid
- FE = Future Projected Case, Equivalent Receptor Grid
- BN = Baseline Case, Nearby Receptor Grid
- FN = Future Projected Case, Nearby Receptor Grid

Each modeled source group corresponds to 3 modeled files: an input file (*.inp), a list file (*.lst), and an output file (*.dat).

Allegheny Valley

Allegheny Valley sources within Allegheny County. Includes Allegheny Ludlum, Glenshaw Glass, etc. Excludes Cheswick EGU. No changes were made for proposed modifications or shutdowns.

- ALGVALBE
- ALGVALBN
- ALGVALFE
- ALGVALFN

Armstrong County

Armstrong County sources. Excludes Keystone and Armstong EGUs. Texas Eastern Transmission was moved from Armstrong Co. to Westmoreland Co. for nearby runs.

- ARMSTRBE
- ARMSTRBN

- ARMSTRFE
- ARMSTRFN

Beaver County

Beaver County sources. Includes Horsehead, Koppel Steel, Anchor Hocking, etc. Excludes Bruce Mansfield and AES Beaver Valley EGUs.

- BEAVRBE
- BEAVRBN
- BEAVRFE
- BEAVRFN

Butler County

Butler County sources. Includes AK Steel, Karns City/Petrolia sources, etc.

- BUTLRBE
- BUTLRBN
- BUTLRFE
- BUTLRFN

EGU Baseline Condensables

Missing EGU condensables from the 2002 baseline MANE-VU inventory, added to the ACHD baseline nearby runs. Emissions retrieved from the NEI 2002 inventory by stack and modeled as a separate source group.

- EGUCONBN

EGU MANE-VU

EGU sources as listed in the MANE-VU inventory. Condensables were included in the future case MANE-VU inventory for most EGUs. For the future case ACHD nearby run, various corrections were made to coordinates, emissions, and stacks.

- EGUMVBE
- EGUMVBN
- EGUMVFE
- EGUMVFN

Below are the EGUs lumped into the EGUMV source groups:

  - AEP Kammer/Mitchell (WV)
  - AEP/Buckeye Cardinal (OH)
  - AES Beaver Valley
  - Allegheny Energy Armstrong
  - Allegheny Energy Fort Martin (WV)
  - Allegheny Energy Hatfield's Ferry
  - Edison Homer City
  - Fayette Energy (future case only)

- First Energy Bruce Mansfield
- First Energy R.E. Burger (OH)
- First Energy W.H. Sammis (OH)
- RRI Energy Cheswick
- RRI Energy New Castle
- RRI Energy Keystone

Fayette County

Fayette County sources. Varying levels of industry. Largest source: Anchor Glass.

- FAYETBE
- FAYETBN
- FAYETFE
- FAYETFN

Greene County

Greene County sources. Varying levels of industry. Largest source: Consol Bailey. Excludes Hatfield's Ferry EGU.

- GREENBE
- GREENBN
- GREENFE
- GREENFN

Lawrence County

Lawrence County sources. Includes Cemex, Essroc, etc. Excludes New Castle EGU.

- LAWRNCBE
- LAWRNCBN
- LAWRNCFE
- LAWRNCFN

Mitchell EGU

Allegheny Energy's Mitchell Power Plant, Union Twp., Washington Co., just outside 20 km domain. Modeled as separate source group due to proximity to Liberty-Clairton area.

- MITCHLBE
- MITCHLBN
- MITCHLFE
- MITCHLFN

Ohio Background

Sources in Belmont and Jefferson Counties, OH. Includes Wheeling Pitt Steel, Titanium Metals Corp. Excludes Sammis, Cardinal, and Burger EGUs.

- OHIOBE
- OHIOBN
- OHIOFE
- OHIOFN

Ohio Valley

Ohio Valley sources within Allegheny County. Includes Neville Island sources, Leetsdale sources, etc. No changes were made for proposed modifications or shutdowns.

- OHIVALBE
- OHIVALBN
- OHIVALFE
- OHIVALFN

Urban Pittsburgh

Urban Pittsburgh sources within Allegheny County. Includes steam boilers, hospitals, light industry, etc. No changes were made for proposed modifications or shutdowns.

- URBPGHBE
- URBPGHBN
- URBPGHFE
- URBPGHFN

Washington County

Washington County sources. Includes Washington sources, Charleroi/Donora sources.

- WASHBE
- WASHBN
- WASHFE
- WASHFN

Westmoreland County

Westmoreland County sources. Includes Latrobe sources, Monessen sources, etc.

- WESTMRBE
- WESTMRBN
- WESTMRFE
- WESTMRFN

Western Allegheny County

Western Allegheny County suburban sources. Includes Bridgeville sources, Pittsburgh Intl. airport, etc. No changes were made for proposed modifications or shutdowns.

- WSUBRBE
- WSUBRBN
- WSUBRFE
- WSUBRFN

West Virginia Background

Sources in the WV Northern Panhandle (Hancock, Brooke, Ohio, and Marshall Counties) and in Monongalia County. Largest source: ISG Weirton steel. Excludes Kammer/Mitchell and Fort Martin EGUs.

- WVABE
- WVABN
- WVAFE
- WVAFN

I-3: CALMET Settings

Key options of the CALMET application and input data preparation were as follows:

INPUT GROUP: 0 -- Input and Output File Names
NUMBER OF UPPER AIR & OVERWATER STATIONS:

Number of upper air stations (NUSTA) No default NUSTA = 1
Number of overwater met stations
(NOWSTA) No default NOWSTA = 0

NUMBER OF PROGNOSTIC and IGF-CALMET FILEs:

Number of MM4/MM5/3D.DAT files
(NM3D) No default NM3D = 1

Number of IGF-CALMET.DAT files
(NIGF) No default NIGF = 0

INPUT GROUP: 1 -- General run control parameters

Starting date: Year (IBYR) -- No default IBYR= 2002
Month (IBMO) -- No default IBMO= 1 (or by season for 20 km grid)
Day (IBDY) -- No default IBDY= 1
Hour (IBHR) -- No default IBHR= 1

Note: IBHR is the time at the END of the first hour of the simulation
(IBHR=1, the first hour of a day, runs from 00:00 to 01:00)

Base time zone (IBTZ) -- No default IBTZ= 5
EST = 05

Length of run (hours) (IRLG) -- No default IRLG= 8754 (or by season for 20 km grid)

[**NOTE**: differences between local standard time (LST) and Greenwich mean time (GMT, -5) led to the loss of some hours for use in meteorological processing]

Run type (IRTYPE) -- Default: 1 IRTYPE= 1

1 = Computes wind fields and micrometeorological variables
(u*, w*, L, zi, etc.)

INPUT GROUP: 2 -- Map Projection and Grid control parameters

Projection for all (X,Y):

Map projection
(PMAP) Default: UTM PMAP = UTM

UTM : Universal Transverse Mercator

UTM zone (1 to 60)
(Used only if PMAP=UTM)
(IUTMZN) No Default IUTMZN = 17

Hemisphere for UTM projection?
(Used only if PMAP=UTM)
(UTMHEM) Default: N UTMHEM = N
N : Northern hemisphere projection

Datum-region

Datum-region for output coordinates
(DATUM) Default: WGS-84 DATUM = NAR-C

NAR-C NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)

Horizontal grid definition:

Rectangular grid defined for projection PMAP,
with X the Easting and Y the Northing coordinate

No. X grid cells (NX) No default NX = 150 for 150 km grid, 200 for 20 km grid
No. Y grid cells (NY) No default NY = 150 for 150 km grid, 200 for 20 km grid

Grid spacing (DGRIDKM) No default DGRIDKM = 1 for 150 km grid, 0.1 for 20 km grid
Units: km

Reference grid coordinate of
SOUTHWEST corner of grid cell (1,1)

X coordinate (XORIGKM) No default XORIGKM = 503.400 for 150 km grid, 586.200 for 20 km grid
Y coordinate (YORIGKM) No default YORIGKM = 4394.200 for 150 km grid, 4454.100 for 20 km grid
Units: km

Vertical grid definition:

No. of vertical layers (NZ) No default NZ = 11

Cell face heights in arbitrary
vertical grid (ZFACE(NZ+1)) No defaults
Units: m
ZFACE = 0.,20.,40.,80.,160.,320.,640.,1000.,1500.,2000.,2500.,3000.

INPUT GROUP: 3 -- Output Options

DISK OUTPUT OPTION

Type of unformatted output file:

(IFORMO) Default: 1 IFORMO = 1

1 = CALPUFF/CALGRID type file (CALMET.DAT)

Print interval
(IPRINF) in hours Default: 1 IPRINF = 1

INPUT GROUP: 4 -- Meteorological data options

NO OBSERVATION MODE (NOOBS) Default: 0 NOOBS = 1
1 = Use surface and overwater stations (no upper air observations)
Use MM4/MM5/3D.DAT for upper air data

NUMBER OF SURFACE & PRECIP. METEOROLOGICAL STATIONS

Number of surface stations (NSSTA) No default NSSTA = 3

Number of precipitation stations
(NPSTA=-1: flag for use of MM5/3D.DAT precip data)
(NPSTA) No default NPSTA = 1

CLOUD DATA OPTIONS
Gridded cloud fields:
(ICLOUD) Default: 0 ICLOUD = 0
ICLOUD = 0 - Gridded clouds not used

INPUT GROUP: 5 -- Wind Field Options and Parameters

WIND FIELD MODEL OPTIONS
Model selection variable (IWFCOD) Default: 1 IWFCOD = 1
0 = Objective analysis only
1 = Diagnostic wind module

Compute Froude number adjustment
effects ? (IFRADJ) Default: 1 IFRADJ = 1
(0 = NO, 1 = YES)

Compute kinematic effects ? (IKINE) Default: 0 IKINE = 0
(0 = NO, 1 = YES)

Use O'Brien procedure for adjustment
of the vertical velocity ? (IOBR) Default: 0 IOBR = 1
(0 = NO, 1 = YES)

Compute slope flow effects ? (ISLOPE) Default: 1 ISLOPE = 1
(0 = NO, 1 = YES)

Extrapolate surface wind observations
to upper layers ? (IEXTRP) Default: -4 IEXTRP = -4
4 = similarity theory used
-1, -2, -3, -4 = same as above except layer 1 data
at upper air stations are ignored

Extrapolate surface winds even
if calm? (ICALM) Default: 0 ICALM = 0
(0 = NO, 1 = YES)

Layer-dependent biases modifying the weights of surface and upper air stations (BIAS(NZ))
-1<=BIAS<=1

Negative BIAS reduces the weight of upper air stations (e.g. BIAS=-0.1 reduces the weight of upper air stations
by 10%; BIAS= -1, reduces their weight by 100 %)

Positive BIAS reduces the weight of surface stations (e.g. BIAS= 0.2 reduces the weight of surface stations
by 20%; BIAS=1 reduces their weight by 100%)

Zero BIAS leaves weights unchanged (1/R**2 interpolation) Default: NZ*0

BIAS = -1 , -1 , -1 , -1 , .5 , .8 , 1 , 1 , 1 , 1 , 1

Minimum distance from nearest upper air station to surface station for which extrapolation of surface winds at surface station will be allowed (RMIN2: Set to -1 for IEXTRP = 4 or other situations where all surface stations should be extrapolated) Default: 4. RMIN2 = -1.0

Use gridded prognostic wind field model output fields as input to the diagnostic
wind field model (IPROG) Default: 0 IPROG = 14

14 = Yes, use winds from MM5/3D.DAT file as initial guess field [IWFCOD = 1]

Timestep (hours) of the prognostic
model input data (ISTEPPG) Default: 1 ISTEPPG = 1

Use coarse CALMET fields as initial guess fields (IGFMET)
(overwrites IGF based on prognostic wind fields if any)
Default: 0 IGFMET = 0

RADIUS OF INFLUENCE PARAMETERS

Use varying radius of influence Default: F LVARY = T

Maximum radius of influence over land
in the surface layer (RMAX1) No default RMAX1 = 3.0 for 150 km grid, 1.5 for 20 km grid
Units: km
Maximum radius of influence over land
aloft (RMAX2) No default RMAX2 = 3.0 for 150 km grid, 1.5 for 20 km grid
Units: km
Maximum radius of influence over water
(RMAX3) No default RMAX3 = 100.
Units: km

OTHER WIND FIELD INPUT PARAMETERS

Minimum radius of influence used in
the wind field interpolation (RMIN) Default: 0.1 RMIN = 0.1
Units: km
Radius of influence of terrain

features (TERRAD) No default TERRAD = 0.5
Units: km

Relative weighting of the first
guess field and observations in the
SURFACE layer (R1) No default R1 = 3.0 for 150 km grid, 1.5 for 20 km grid
(R1 is the distance from an Units: km
observational station at which the
observation and first guess field are
equally weighted)

Relative weighting of the first
guess field and observations in the
layers ALOFT (R2) No default R2 = 3.0 for 150 km grid, 1.5 for 20 km grid
(R2 is applied in the upper layers Units: km
in the same manner as R1 is used in
the surface layer).

Relative weighting parameter of the
prognostic wind field data (RPROG) No default RPROG = 0.
(Used only if IPROG = 1) Units: km

Maximum acceptable divergence in the
divergence minimization procedure
(DIVLIM) Default: 5.E-6 DIVLIM= 5.0E-06

Maximum number of iterations in the
divergence min. procedure (NITER) Default: 50 NITER = 50

Number of passes in the smoothing
procedure (NSMTH(NZ))
NOTE: NZ values must be entered
Default: 2,(mxnz-1)*4 NSMTH = 2 , 4 , 4 , 4 , 4 , 4 , 4 , 4 , 4 , 4

Maximum number of stations used in
each layer for the interpolation of
data to a grid point (NINTR2(NZ))
NOTE: NZ values must be entered Default: 99. NINTR2 =
99 , 99 , 99 , 99 , 99 , 99 , 99 , 99 , 99 , 99 , 99

Critical Froude number (CRITFN) Default: 1.0 CRITFN = 1.

Empirical factor controlling the
influence of kinematic effects
(ALPHA) Default: 0.1 ALPHA = 0.1

Multiplicative scaling factor for
extrapolation of surface observations
to upper layers (FEXTR2(NZ)) Default: NZ*0.0
FEXTR2 = 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.
(Used only if IEXTRP = 3 or -3)

BARRIER INFORMATION

```
Number of barriers to interpolation
of the wind fields (NBAR)          Default: 0      NBAR =  0

Level (1 to NZ) up to which barriers
apply (KBAR)                       Default: NZ     KBAR =  11

THE FOLLOWING 4 VARIABLES ARE INCLUDED
ONLY IF NBAR > 0
NOTE: NBAR values must be entered     No defaults
    for each variable             Units: km

  X coordinate of BEGINNING
  of each barrier (XBBAR(NBAR))      XBBAR = 0.
  Y coordinate of BEGINNING
  of each barrier (YBBAR(NBAR))      YBBAR = 0.

  X coordinate of ENDING
  of each barrier (XEBAR(NBAR))      XEBAR = 0.
  Y coordinate of ENDING
  of each barrier (YEBAR(NBAR))      YEBAR = 0.


DIAGNOSTIC MODULE DATA INPUT OPTIONS

Surface temperature (IDIOPT1)        Default: 0      IDIOPT1 =  0
  0 = Compute internally from
      hourly surface observations or prognostic fields
  1 = Read preprocessed values from
      a data file (DIAG.DAT)

  Surface met. station to use for
  the surface temperature (ISURFT)   No default      ISURFT =  1
  (Must be a value from 1 to NSSTA)
  (Used only if IDIOPT1 = 0)
  --------------------------

Temperature lapse rate used in the    Default: 0      IDIOPT2 =  0
  computation of terrain-induced
  circulations (IDIOPT2)
  0 = Compute internally from (at least) twice-daily
      upper air observations or prognostic fields

  Upper air station to use for
  the domain-scale lapse rate (IUPT) No default      IUPT   = -1
  (Must be a value from 1 to NUSTA)
  (Used only if IDIOPT2 = 0)
  --------------------------

  Depth through which the domain-scale
  lapse rate is computed (ZUPT)      Default: 200.   ZUPT = 200.
  (Used only if IDIOPT2 = 0)         Units: meters
  --------------------------

Initial Guess Field Winds
(IDIOPT3)                          Default: 0      IDIOPT3 =  0
  0 = Compute internally from
```

observations or prognostic wind fields

Upper air station to use for
the initial guess winds (IUPWND) Default: -1 IUPWND = -1
(Must be a value from -1 to NUSTA, with
-1 indicating 3-D initial guess fields,
and IUPWND>1 domain-scaled (i.e. constant) IGF)
(Used only if IDIOPT3 = 0)

Bottom and top of layer through
which the domain-scale winds
are computed
(ZUPWND(1), ZUPWND(2)) Defaults: 1., 1000. ZUPWND= 1., 1000.
(Used only if IDIOPT3 = 0, NOOBS>0 and IUPWND>0) Units: meters
---

Observed surface wind components
for wind field module (IDIOPT4) Default: 0 IDIOPT4 = 0
0 = Read WS, WD from a surface
data file (SURF.DAT)

Observed upper air wind components
for wind field module (IDIOPT5) Default: 0 IDIOPT5 = 0
0 = Read WS, WD from an upper
air data file (UP1.DAT, UP2.DAT, etc.)

LAKE BREEZE INFORMATION

Use Lake Breeze Module (LLBREZE)
Default: F LLBREZE = F

Number of lake breeze regions (NBOX) NBOX = 0

X Grid line 1 defining the region of interest
XG1 = 0.
X Grid line 2 defining the region of interest
XG2 = 0.
Y Grid line 1 defining the region of interest
YG1 = 0.
Y Grid line 2 defining the region of interest
YG2 = 0.

X Point defining the coastline (Straight line)
(XBCST) (KM) Default: none XBCST = 0.

Y Point defining the coastline (Straight line)
(YBCST) (KM) Default: none YBCST = 0.

X Point defining the coastline (Straight line)
(XECST) (KM) Default: none XECST = 0.

Y Point defining the coastline (Straight line)
(YECST) (KM) Default: none YECST = 0.

Number of stations in the region Default: none NLB = 0
(Surface stations + upper air stations)

Station ID's in the region (METBXID(NLB))
(Surface stations first, then upper air stations)
METBXID = 0

INPUT GROUP: 6 -- Mixing Height, Temperature and Precipitation Parameters

EMPIRICAL MIXING HEIGHT CONSTANTS

Neutral, mechanical equation
(CONSTB) Default: 1.41 CONSTB = 1.41
Convective mixing ht. equation
(CONSTE) Default: 0.15 CONSTE = 0.15
Stable mixing ht. equation
(CONSTN) Default: 2400. CONSTN = 2400.
Overwater mixing ht. equation
(CONSTW) Default: 0.16 CONSTW = 0.16
Absolute value of Coriolis
parameter (FCORIOL) Default: 1.E-4 FCORIOL = 1.0E-04
Units: (1/s)

SPATIAL AVERAGING OF MIXING HEIGHTS

Conduct spatial averaging
(IAVEZI) (0=no, 1=yes) Default: 1 IAVEZI = 1

Max. search radius in averaging
process (MNMDAV) Default: 1 MNMDAV = 1
Units: Grid cells

Half-angle of upwind looking cone
for averaging (HAFANG) Default: 30. HAFANG = 30.
Units: deg.

Layer of winds used in upwind
averaging (ILEVZI) Default: 1 ILEVZI = 1
(must be between 1 and NZ)

CONVECTIVE MIXING HEIGHT OPTIONS:
Method to compute the convective
mixing height(IMIHXH) Default: 1 IMIXH = 1
1: Maul-Carson for land and water cells
-1: Maul-Carson for land cells only -
OCD mixing height overwater
2: Batchvarova and Gryning for land and water cells
-2: Batchvarova and Gryning for land cells only
OCD mixing height overwater

Threshold buoyancy flux required to
sustain convective mixing height growth
overland (THRESHL) Default: 0.05 THRESHL = 0.05
(expressed as a heat flux units: W/m3

per meter of boundary layer)

Threshold buoyancy flux required to
sustain convective mixing height growth
overwater (THRESHW) Default: 0.05 THRESHW = 0.05
(expressed as a heat flux units: W/m3
per meter of boundary layer)

Option for overwater lapse rates used
in convective mixing height growth
(ITWPROG) Default: 0 ITWPROG = 0
0 : use SEA.DAT lapse rates and deltaT (or assume neutral
conditions if missing)

Land Use category ocean in 3D.DAT datasets
(ILUOC3D) Default: 16 ILUOC3D = 16
Note: if 3D.DAT from MM5 version 3.0, iluoc3d = 16
if MM4.DAT, typically iluoc3d = 7

OTHER MIXING HEIGHT VARIABLES

Minimum potential temperature lapse
rate in the stable layer above the
current convective mixing ht. Default: 0.001 DPTMIN = 0.001
(DPTMIN) Units: deg. K/m
Depth of layer above current conv.
mixing height through which lapse Default: 200. DZZI = 200.
rate is computed (DZZI) Units: meters

Minimum overland mixing height Default: 50. ZIMIN = 50.
(ZIMIN) Units: meters
Maximum overland mixing height Default: 3000. ZIMAX = 3000.
(ZIMAX) Units: meters
Minimum overwater mixing height Default: 50. ZIMINW = 50.
(ZIMINW) -- (Not used if observed Units: meters
overwater mixing hts. are used)
Maximum overwater mixing height Default: 3000. ZIMAXW = 3000.
(ZIMAXW) -- (Not used if observed Units: meters
overwater mixing hts. are used)

OVERWATER SURFACE FLUXES METHOD and PARAMETERS
(ICOARE) Default: 10 ICOARE = 10
0: original deltaT method (OCD)
10: COARE with no wave parameterization (jwave=0, Charnock)

Coastal/Shallow water length scale (DSHELF)
(for modified z0 in shallow water)
(COARE fluxes only)
Default : 0. DSHELF = 0.
units: km

COARE warm layer computation (IWARM) IWARM = 0

1: on - 0: off (must be off if SST measured with
IR radiometer) Default: 0

COARE cool skin layer computation (ICOOL) ICOOL = 0
1: on - 0: off (must be off if SST measured with
IR radiometer) Default: 0

TEMPERATURE PARAMETERS

3D temperature from observations or
from prognostic data? (ITPROG) Default:0 ITPROG = 1

1 = Use Surface stations (no upper air observations)
Use MM5/3D.DAT for upper air data
(only if NOOBS = 0,1)

Interpolation type
(1 = 1/R ; 2 = 1/R**2) Default:1 IRAD = 1

Radius of influence for temperature
interpolation (TRADKM) Default: 500. TRADKM = 500.
Units: km

Maximum Number of stations to include
in temperature interpolation (NUMTS) Default: 5 NUMTS = 5

Conduct spatial averaging of temp-
eratures (IAVET) (0=no, 1=yes) Default: 1 IAVET = 1
(will use mixing ht MNMDAV,HAFANG
so make sure they are correct)

Default temperature gradient Default: -.0098 TGDEFB = -0.0098
below the mixing height over Units: K/m
water (TGDEFB)

Default temperature gradient Default: -.0045 TGDEFA = -0.0045
above the mixing height over Units: K/m
water (TGDEFA)

Beginning (JWAT1) and ending (JWAT2)
land use categories for temperature JWAT1 = 999
interpolation over water -- Make JWAT2 = 999
bigger than largest land use to disable

PRECIP INTERPOLATION PARAMETERS

Method of interpolation (NFLAGP) Default: 2 NFLAGP = 2
(1=1/R,2=1/R**2,3=EXP/R**2)
Radius of Influence (SIGMAP) Default: 100.0 SIGMAP = 40.
(0.0 => use half dist. btwn Units: km
nearest stns w & w/out
precip when NFLAGP = 3)
Minimum Precip. Rate Cutoff (CUTP) Default: 0.01 CUTP = 0.01
(values < CUTP = 0.0 mm/hr) Units: mm/hr

INPUT GROUP: 7 -- Surface meteorological station parameters

SURFACE STATION VARIABLES

```
        1     2
      Name   ID          X coord.   Y coord.   Time   Anem.
                            (km)       (km)      zone   Ht.(m)
    ------------------------------------------------------------
SS1  ='KAGC'   14762      591.261    4467.597    5    15
SS2  ='KCLN'   99907      595.421    4461.978    5    10    (KCLN used with 20 km grid only)
SS3  ='KLIB'   99964      596.259    4464.373    5    10
```

INPUT GROUP: 8 -- Upper air meteorological station parameters

UPPER AIR STATION VARIABLES

```
        1     2
      Name    ID      X coord.   Y coord.  Time zone
                        (km)       (km)
    ------------------------------------------------
US1  ='PIT'   94823    566.046   4486.658    0
```

INPUT GROUP: 9 -- Precipitation station parameters

PRECIPITATION STATION VARIABLES

```
        1         2
      Name   Station    X coord.  Y coord.
                Code       (km)      (km)
      -------------------------------------

PS1  ='KPIT'   366993    565.036   4483.584
```

I-4: Differences of ACHD CALMET Input File Values from EPA-FLM Recommended Values

This section summarizes the differences of the ACHD CALMET input file values from those recommended values for CALMET input file values as given in the memo *Clarification on EPA-FLM Recommended Settings for CALMET* (EPA, Aug 2009).

- LCFILES – All file names will be converted to lower or upper case.
  EPA-FLM recommends setting this variable to T – lower case
  ACHD set this variable to F – upper case

- MREG – Test options specified to see if they conform to regulatory values.
  EPA-FLM recommends 1 – Technical options must conform to USEPA guidance
  ACHD set this variable to 0 – No checks are made

- PMAP – Map projection.
  EPA-FLM recommends LCC – Lambert Conformal Conic
  ACHD set this variable to UTM – Universal Transverse Mercator

- IUTMZN – UTM zone (1 to 60).
  No EPA-FLM recommendation because EPA-FLM recommends LCC
  ACHD set this variable to 17

- DATUM – Datum-region for output coordinates.
  EPA-FLM recommends that the user defines this variable, default is WGS-84
  ACHD set this variable to NAR-C (North American 1983 GRS 80 Spheroid, Mean for Conus NAD83)

- DGRIDKM – Grid spacing in kilometers (km).
  EPA-FLM recommends ≥ 4
  ACHD set this variable to 0.1

- NZ – Number of vertical layers.
  EPA-FLM recommends 10
  ACHD set this variable to 11

- ZFACE – Cell face heights in arbitrary vertical grid [ZFACE(NZ+1)].
  EPA-FLM recommends: 0, 20, 40, 80, 160, 320, 640, 1200, 2000, 3000, 4000
  ACHD variable array: 0, 20, 40, 80, 160, 320, 640, 1000, 1500, 2000, 2500, 3000

- IUVOUT – Layers of U, V wind component to print (IUVOUT(NZ)).
  EPA-FLM recommends an array of ten zeros (0)
  ACHD set the variable to an array eleven zeros (0)

- IWVOUT – Levels of W wind component to print (IWVOUT(NZ)).
  EPA-FLM recommends an array of ten zeros (0)
  ACHD set this variable to an array eleven zeros (0)

- ITOUT – Levels of 3-D temps to print (ITOUT(NZ)).
  EPA-FLM recommends an array of ten zeros (0)

ACHD set this variable to an array eleven zeros (0)

- NN2 – Last time step for which debug data are printed.
  EPA-FLM recommends 1
  ACHD set this variable to 2

- NZPRN2 – Number of levels, starting at the surface for which debug data are printed.
  EPA-FLM recommends 0
  ACHD set this variable to 1

- NOOBS – No observation mode.
  EPA-FLM recommends 0 – Use surface, overwater, and upper air stations
  ACHD set this variable to 1 – Use surface and overwater stations (no upper air observations) Use MM4/MM5/3D.DAT for upper air data

- BIAS – Layer-dependent biases modifying the weights of surface and upper air stations. (BIAS(NZ)) $-1 \leq BIAS \leq 1$
  EPA-FLM recommends an array of ten zeros (0)
  ACHD set the variable to an array of four (-1), 0.5, 0.8, five (1)

- LVARY – Use varying radius of influence.
  EPA-FLM recommends F – No
  ACHD set this variable to T – Yes

- RMAX1 – Maximum radius (km) of influence over land in the surface layer.
  EPA-FLM recommends 100
  ACHD set this variable to 3.0 for 150 km grid, 1.5 for 20 km grid

- RMAX2 – Maximum radius (km) of influence over land aloft.
  EPA-FLM recommends 100
  ACHD set this variable to 3.0 for 150 km grid, 1.5 for 20 km grid

- RMAX3 – Maximum radius (km) of influence over water.
  EPA-FLM recommends 200
  ACHD set this variable to 100

- TERRAD – Radius of influence of terrain features (km).
  EPA-FLM recommends 15
  ACHD set this variable to 0.5

- R1 – Relative weight of first guess field and observations at surface layer (km).
  EPA-FLM recommends 100
  ACHD set this variable to 3.0 for 150 km grid, 1.5 for 20 km grid

- R2 – Relative weight of first guess field and observations in the layers aloft (km).
  EPA-FLM recommends 100
  ACHD set this variable to 3.0 for 150 km grid, 1.5 for 20 km grid

- NSMITH – Number of passes in the smoothing procedure (NSMTH(NZ)).
  EPA-FLM recommends an array of 2, nine (4)
  ACHD set the variable to an array of 2, ten (4)

- NINTR2 – Maximum number of stations used in each layer for interpolation of data to the grid point (NINTR2(NZ)).
  EPA-FLM recommends an array of ten (99)
  ACHD set the variable to an array of eleven (99)

- KBAR – Level (1 to NZ) up to which barriers apply.
  EPA-FLM recommends 10
  ACHD set this variable to 11

- IMIXH – Method to compute the convective mixing height.
  EPA-FLM recommends -1 – Maul-Carson for land cells only and OCD mixing height overwater
  ACHD set this variable to 1 – Maul-Carson for land and water cells

- THRESHL – Threshold buoyancy flux required to sustain convective mixing height growth overland (W/m^3).
  EPA-FLM recommends 0.0
  ACHD set this variable to 0.5

- ICOARE – Over water surface fluxes method and parameters.
  EPA-FLM recommends 0 – original delta T method (OCD)
  ACHD set this variable to 10 – COARE with no wave parameterization
  (jwave = 0, Charnock)

- ITPROG – 3D temperature from observations of from prognostic data.
  EPA-FLM recommends 0 – Use surface and upper air stations
  (only if NOOBS = 0)
  ACHD set this variable to 1 – Use surface stations (no upper air observations)
  Use MM5/3D.DAT for upper air data (only if NOOBS = 0 or 1)

- JWAT1 – Beginning land use categories for temperature interpolation over water.
  EPA-FLM recommends 55
  ACHD set this variable to 999

- JWAT2 – Ending land use categories for temperature interpolation over water.
  EPA-FLM recommends 55
  ACHD set this variable to 999

- SIGMAP – Radius of influence (km) for precipitation.
  EPA-FLM recommends 100
  ACHD set this variable to 100

I-5: CALPUFF Settings

Key options of the CALPUFF application and input data preparation were as follows:

INPUT GROUP: 1 -- General run control parameters:

- IBYR – Starting year of the CALPUFF run (four digits) set to 2002
- IBMO – Starting month set to 1 (January)
- IBDY – Starting day set to 1
- IBHR – Starting hour (time at end of hour: 00-23) set to 1
- IRLG – Length of the run (hours) set to 8753

  [**NOTE**: differences between local standard time (LST) and Greenwich mean time (GMT, -5) led to the loss of some in the meteorological processing]

- NSPEC – Total number of species modeled set to 1
- NSE – Number of species emitted set to 1
- NRESPD – Number of periods in restart output cycle; a restart file that is written during the run is refreshed at the end of every cycle set to 0
  - 0 = File written only at last period
- METFM – Meteorological data format set to 1
  - 1 = CALMET unformatted file (CALMET.DAT)
- MPRFFM – Meteorological profile data format set to 1
  - 1 = CTDM plus tower file (PROFILE.DAT)
- AVET – Averaging time (minutes) PG – σ_y is adjusted by the equation $(AVET/PGTIME)^{0.2}$ set to 60.0
- PGTIME – Averaging time (minutes) for PG – σ_y set to 60.0

INPUT GROUP: 2 -- Technical Options:

- MGAUSS – Control variable determining the vertical distribution used in the near field (0 = Uniform, 1 = Gaussian) set to 1
- MCTADJ – Terrain adjusted method set to 3
  - 3 = Partial plume path adjustment
- MCTSG – CALPUFF subgrid scale complex terrain module (CTSG) flag (0 = CTSG not modeled, 1 = CTSG modeled) set to 0
- MSLUG – Near-field puffs are modeled as elongated “slugs”? (0 = no, 1 =yes) set to 0
- MTRANS – Transition plume rise modeled? (0 = Only final rise computed,

1 = Transitional rise computed) Note: Transitional plume rise always computed for sources subject to building downwash effects. set to 1

- MTIP – Stack tip downwash modeled? (0 = No stack tip downwash, 1 = Use stack tip downwash) set to 1

- MBDW – Method used to simulate building downwash? (1 = ISC Method, 2 = PRIME method) set to 1

- MSHEAR – Vertical wind shear above stack top modeled in plume rise? (0 = Vertical wind shear not modeled, 1 = Vertical wind shear modeled) set to 0

- MSPLIT – Puff splitting allowed? (0 = no, 1 = yes) set to 0

- MCHEM – Chemical mechanism flag. Set to 0
  - 0 = Chemical transformation not modeled

- MAQCHEM – Aqueous phase transformation flag (Used only if MCHEM = 1 or 3) (0 = Aqueous phase transformation not modeled, 1= Transformation rates adjusted for aqueous phase reactions) set to 0

- MWET – Wet removal modeled? (0 = no, 1 = yes) set to 0

- MDRY – Dry deposition modeled? (0 = no, 1 = yes) set to 0

- MTILT – Gravitational settling (plume tilt) modeled? (0 = no, 1 = yes) set to 0

- MDISP – Method used to compute the horizontal and vertical dispersion coefficients set to 3
  - 3 = PG dispersion coefficients used in Rural areas (computed using the ISCST multi-segment approximation) and MP coefficients used in Urban areas

- MTURBVW – Sigma-v/sigma-theta, sigma-w measurements used? (Used only if MDISP = 1 or 5) set to 3

  - 3 = Use both sigma-(v/theta) and sigma-w from PROFILE.DAT to compute sigma-y and sigma-z (valid for METFM = 1, 2, 3, 4, 5)

- MDISP2 – Back-up method used to compute dispersion when measured turbulence data are missing (used only if MDISP = 1 or 5) set to 3

  - 3 = PG dispersion coefficients used in Rural areas (computed using the ISCST multi-segment approximation) and MP coefficients used in Urban areas

- MTAULY – Method used for Lagrangian timescale for sigma-y (used only if MDISP = 1, 2 or MDISP2 = 1, 2) set to 0
  - 0 = Draxler default 617.284 (s)

- MCTURB – Method used to compute turbulence sigma-v and sigma-w using micrometeorological variables (used only if MDISP = 2 of MDISP2 = 2)
  (1 = Standard CALPUFF subroutines, 2 = AERMOD subroutines) set to 1

- MROUGH – PG σ_v and σ_w adjusted for surface roughness? (0 = no, 1 = yes) set to 0

- MPARTL – Partial plume penetration of elevated inversion? (0 = no, 1 = yes) set to 1

- MTINV – Strength of temperature inversion provided in PROFILE.DAT extended records? (0 = no, computed from measured/default gradients, 1 = yes) set to 0

- MPDF – Probability Distribution Function method used for dispersion in the convective boundary layer? (0 = no, 1 = yes) set to 0

- MSGTIBL – Subgrid scale TIBL module used for shoreline? (0 = no, 1 = yes) set to 0

- MBCON – Boundary conditions (concentration) modeled? set to 0
  - 0 = No

- MSOURCE – Individual source contributions saved? (0 = no, 1 = yes) set to 0

- MFOG – Configure for FOG Model output? set to 0 (0=No)

INPUT GROUP: 3a, 3b -- Species list:

- CSPEC – Species names to be modeled (e.g. SO2, NOX, HNO3, PM2.5)

Note: Only one species per line. Any additional species need to follow on a separate line. The variable delimiter and group delimiter (END) appears on the end of each line.

CSPEC = PM2.5

GROUP SPECIES NAME (Limit: 12 Characters in length)	MODELED (0=NO, 1=YES)	EMITTED (0=NO, 1=YES)	Dry DEPOSITED (0=NO, 1=COMPUTED-GAS 2=COMPUTED-PARTICLE 3=USER-SPECIFIED)	OUTPUT NUMBER (0=NONE, 1=1st CGRUP, 2=2nd CGRUP, 3= etc.)
PM2.5 =	1,	1,	0,	0

CGRUP is any optional command and is not used, because only PM2.5 is being modeled in CALPUFF.

INPUT GROUP: 4 -- Map Projection and Grid control parameters:

- PMAP – Map projection set to UTM
  UTM: Universal Transverse Mercator

- IUTMZN – UTM zone (1 to 60) (Used only if PMAP=UTM) set to 17

- UTMHEM – Hemisphere for UTM projection? (Used only if PMAP=UTM) set to N
  N: Northern hemisphere projection

- DATUM – The Datum-Region for the coordinates is identified by a character string. set to NAR-C
  NAR-C: NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)

- NX – Number of grid cells in the X direction of the meteorological grid.

set to 200 for 20 km grid and 150 for 150 km grid

- NY – Number of grid cells in the Y direction of the meteorological grid.
  set to 200 for 20 km grid and 150 for 150 km grid

- NZ – Number of vertical layers in the Z direction. set to 11

- DGRIDKM – Grid spacing (km) of the meteorological grid.
  set to 0.1 for 20 km grid and 1.0 for 150 km grid

- ZFACE – Cell face heights (ZFACE(NZ+1)) units (m)
  ZFACE = 0.0, 20.0, 40.0, 80.0, 160.0, 320.0, 640.0, 1000.0, 1500.0, 2000.0, 2500.0, 3000.0

- XORIGKM – Reference X coordinate (km) of the southwest corner of grid cell (1,1) of the meteorological grid. set to 586.2 for 20 km grid and 503.4 for 150 km grid

- YORIGKM – Reference Y coordinate (km) of the southwest corner of grid cell (1,1) of the meteorological grid. set to 4454.1 for 20 km grid and 4394.2 for 150 km grid

- IBCOMP – X index of the lower left corner of the computational grid. set to 1
  ($1 \leq$ IBCOMP $\leq$ NX)

- JBCOMP – Y index of the lower left corner of the computational grid. set to 1
  ($1 \leq$ JBCOMP $\leq$ NY)

- IECOMP – X index of upper right corner of the computational grid. set to 200 for 20 km grid and 150 for 150 km grid ($1 \leq$ IECOMP $\leq$ NX)

- JECOMP – Y index of the upper right corner of the computational grid. set to 200 for 20 km grid and 150 for 150 km grid ($1 \leq$ JECOMP $\leq$ NY)

- LSAMP – Flag indicating if an array of gridded receptors (i.e. sampling grid) is used (T = yes, F = no) set to F

- IBSAMP – X index of lower left corner of the sampling grid. set to 0
  (IBCOMP $\leq$ IBSAMP $\leq$ IECOMP)

- JBSAMP – Y index of lower left corner of the sampling grid. set to 0
  (JBCOMP $\leq$ JBSAMP $\leq$ JECOMP)

- IESAMP – X index of upper right corner of the sampling grid. set to 0
  (IBCOMP $\leq$ IESAMP $\leq$ IECOMP)

- JESAMP – Y index of upper right corner of the sampling grid. set to 0
  (JBCOMP $\leq$ JESAMP $\leq$ JECOMP)

- MESHDN – Nesting factor of the sampling grid. set to 1

(MESHDN $\geq$ 1). The grid spacing of the sampling grid is DGRIDKM/MESHDN.
The number of sampling grid points is NXSAM * NYSAM, where

NXSAM = MESHDN * (IESAMP – IBSAMP) + 1
NYSAM = MESHDN * (JESAMP – JBSAMP) + 1

INPUT GROUP: 5 -- Output Options:

- ICON – Control variable for creation of an output disk file (CONC.DAT) containing concentration fields (species stored in this file are controlled by the output species table described below). (0 = Do not create CONC.DAT, 1 = Create CONC.DAT) set to 1

INPUT GROUP: 6a, 6b, & 6c -- Subgrid scale complex terrain inputs:

Input Group 6a – General CTSG Parameters

- NHILL – Number of subgrid scale terrain features. set to 0

- NCTREC – Number of special subgrid scale complex terrain receptors. set to 0

- MHILL – Terrain and receptor data for CTSG hills input in CTDM format? (1 = Data created by CTDM processes and read from HILL.DAT and HILLRCT.DAT files, 2 = Hill data created by OPTHILL & input below in Subgroup 6b; Receptor data in Subgroup 6c) set to 2

INPUT GROUP: 7 -- Dry Deposition Parameters - Gases:

The dry deposition of PM2.5 is set to 0; therefore there is no input for group 7.

INPUT GROUP: 8 -- Dry Deposition Parameters - Particles:

The dry deposition of PM2.5 is set to 0; therefore there is no input for group 8.

INPUT GROUP: 9 -- Miscellaneous Dry Deposition Parameters:

- RCUTR – Reference cuticle resistance (s/cm) set to 30.0

- RGR – Reference ground resistance (s/cm) set to 10.0

- REACTR – Reference pollutant reactivity set to 8.0

- NINT – Number of particle-size intervals used to evaluate effective particle deposition velocity set to 9

- IVEG – Flag specifying the state of vegetation in unirrigated areas set to 1
  - 1 = Vegetation is active and unstressed
  - 2 = Vegetation is active and stressed
  - 3 = Vegetation is inactive

INPUT GROUP: 10 -- Wet Deposition Parameters:

The wet deposition of PM2.5 is set to 0; therefore there is no input for group 10.

INPUT GROUP: 11 -- Chemistry Parameters:

- RNITE1 – Nighttime SO_2 loss rate in percent/hour set to 0.2

- RNITE2 – Nighttime NO_x loss rate in percent/hour set to 2.0

- RNITE3 – Nighttime HNO_3 formation rate in percent/hour set to 2.0

INPUT GROUP: 12 -- Dispersion Computational Parameters:

- SYTDEP – Horizontal size of a puff (m) beyond which the time-dependent dispersion equation of Heffter (1965) set to 550

- MHFTRZ – Use Heffter formulas for σ_z? (0 = no, 1 = yes) set to 0

- JSUP – Stability class used to determine dispersion rates for puffs above the boundary layer (e.g. 6 = F stability) set to 5

- CONK1 – Vertical dispersion constant for stable conditions set to 0.01

- CONK2 – Vertical dispersion constant for neutral/unstable conditions set to 0.1

- TBD – Factor for determining transition-point from Schulman-Scire to Huber-Snyder Building Downwash scheme (SS used for HS < Hb + TBD*HL) set to 0.5
    - TBD = 0.5 ISC transition-point

- IURB1/IURB2 – Land use categories associated with urban areas. If MDISP = 3 or 4, MP dispersion coefficients are used when puff is over land use type IURB1 through IURB2. IURB1 set to 10 and IURB2 set to 19

Site Characterization Parameters for Single-point met. data files

- ILANDUIN – Land use category for modeling domain set to 20

- Z0IN – Roughness length (m) for modeling domain set to 0.25

- XLAIIN – Leaf area index for modeling domain set to 3.0

- ELEVIN – Elevation (m) above sea level 0.0

- XLATIN – North Latitude (deg) of station; positive for the northern hemisphere, negative for the southern hemisphere set to -999

- XLONIN – West Longitude (deg) of station; positive west of 0.0, negative east of 0.0 set to -999

- XMXLEN – Maximum length of an emitted slug (in met. grid units) set to 1.0

- XSAMLEN – Maximum travel distance of a slug or puff (in met. grid units) during one sampling step set to 1.0

- MXNEW – Maximum number of puffs or slugs released from one source during one time step set to 99

- MXSAM – Maximum number of sampling steps during one time step for a puff or slug set to 99

- NCOUNT – Number or iterations used when computing the transport wind for a sampling step that includes transitional plume rise set to 2

- SYMIN – Minimum σ_y (m) a new puff or slug set to 1.0

- SZMIN – Minimum σ_z (m) a new puff or slug set to 1.0

- SVMIN – Minimum turbulence velocity (m/s) σ_v for each stability class over land and water

- SWMIN – Minimum turbulence velocity (m/s) σ_w for each stability class over land and water

	-- ---------- LAND ----------						---------- WATER ----------					
Stab Class :	A	B	C	D	E	F	A	B	C	D	E	F
	---	---	---	---	---	---	---	---	---	---	---	---
SVMIN :	.50,	.50,	.50,	.50,	.50,	.50,	.37,	.37,	.37,	.37,	.37,	.37
SWMIN :	.20,	.12,	.08,	.06,	.03,	.016,	.20,	.12,	.08,	.06,	.03,	.016

- CDIV1/CDIV2 – Divergence criterion for dw/dz in met cell used to initiate adjustment for horizontal convergence (1/s). Partial adjustment starts at CDIV1, and full adjustment is reached at CDIV2. CDIV1 set to 0.0 and CDIV2 set to 0.0

- WSCALM – Minimum wind speed (m/s) allowed for non-calm conditions. Wind speeds less than WSCALM will be considered as "calm" by the model. WSCALM is also used as the minimum speed returned from the power law extrapolation of the wind speed toward the surface. set to 0.5

- XMAXZI – Maximum mixing height (m) set to 3000.0

- XMINZI – Minimum mixing height (m) set to 50.0

- WSCAT – Upper bounds on the first 5 wind speed classes (m/s). The last class has no upper limit set to 1.54, 3.09, 5.14, 8.23, and 10.80

- PLX0 – Wind speed profile power-law exponents for stabilities A-F set to 0.07, 0.07, 0.10, 0.15, 0.35, and 0.55

- PLG0 – Potential temperature gradient (deg. k/m) for stability classes E and F set to 0.020 and 0.035

- PPC – Default plume path coefficients for each stability class (used when option for partial plume height terrain adjustment is selected, MCTADJ = 3) set to 0.50, 0.50, 0.50, 0.50, 0.35, 0.35

- SL2PF – Slug-to-puff transition criterion factor (max σ_y/slug length before transition to puff) set to 10.0

Puff-Splitting Control Variables

- NSPLIT – Number of puffs that result every time a puff is split set to 3

- IRESPLIT – Time(s) of a day when split puffs are eligible to be split again; this is typically set once per day, around sunset before nocturnal shear develops. 24 values: 0 is midnight (00:00) and 23 is 11pm (23:00) set to 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0
    - 0 = Do not re-split

- ZISPLIT – Split is allowed only if last hour's mixing height (m) exceeds this minimum value set to 100.0

- ROLDMAX – Split is allowed only if ratio of last hour's mixing height to the maximum mixing height experienced by the puffs is less than this maximum value (This postpones a split until a nocturnal layer develops) set to 0.25

- NSPLITH – Number of puffs that result every time a puff is split set to 5

- SYSPLITH – Minimum σ_y (Grid Cell Units) of puff before it may be split set to 1.0

- SHSPLITH – Minimum puff elongation rate (SYSPLITH/hr) due to wind shear, before it may be split set to 2.0

- CNSPLITH – Minimum concentration (g/m**3) of each species in puff before it may be split set to 1.0E-7

Integration Control Variables

- EPSSLUG – Fractional convergence criterion for numerical SLUG sampling integration set to 1.0E-4

- EPSAREA – Fractional convergence criterion for numerical AREA source integration set to 1.0E-6

- DRISE – Trajectory step length (m) used for numerical rise integration set to 1.0

Boundary Condition Puff Control Variables

- RSAMPBC – Search radius (km) about a receptor for sampling nearest BC puff. BC puffs are typically emitted with a spacing of one grid cell length, so the search should be greater than DGRIDKM set to 10.0

- MDEPBC – Near-Surface depletion adjustment to concentration profile used when sampling BC puffs? (0 = Concentration is NOT adjusted for depletion, 1 = Adjust concentration for depletion) set to 1

I-6: Battery Flow Rates and Plume Rise Treatment

BATTERIES 1-3 Fugitive Emission Flow Rates

Charging 3 x 737.4 m^3/hr = 2212.2 m^3/hr

Charges: 4 min/charge x 11 charges/hr = 44 min/hr

2212.2 m^3/hr ÷ 44 min charge/hr = 50.28 m^3/min = 0.84 m^3/s

Door Leaks 3 x 6490.2 m^3/hr = 19470.6 m^3/hr = 5.41 m^3/s

Lid Leaks 3 x 737.4 m^3/hr = 2212.2 m^3/hr = 0.61 m^3/s

Off-Take Leaks 3 x 1253.4 m^3/hr = 3760.2 m^3/hr = 1.04 m^3/s

Pushing 235746 m^3/hr

1 min/push x 11 pushes/hr = 11 min/hr

235746 m^3/hr ÷ 11 min/hr = 21431.5 m^3/min = 357.19 m^3/s

Travel Car 86430 m^3/hr

3 min travel/push x 11 pushes/hr = 33 min/hr

86430 m^3/hr ÷ 33 min/hr = 2619.09 m^3/min = 43.65 m^3/s

Decarbonizing 4263.6 m^3/hr = 1.18 m^3/s

TOTAL FLOW **409.92 m^3/s**

BATTERIES 7-9 Fugitive Emission Flow Rates

Charging 3 x 782.4 m^3/hr = 2347.2 m^3/hr

Charges: 4 min/charge x 11 charges/hr = 44 min/hr

2347.2 m^3/hr ÷ 44 min charge/hr = 53.35 m^3/min = 0.89 m^3/s

Door Leaks 3 x 6882.2 m^3/hr = 20647.8 m^3/hr = 5.74 m^3/s

Lid Leaks 3 x 782.4 m^3/hr = 2347.2 m^3/hr = 0.65 m^3/s

Off-Take Leaks 3 x 782.4 m^3/hr = 2347.2 m^3/hr = 0.65 m^3/s

Pushing 238596 m^3/hr

1 min/push x 11 pushes/hr = 11 min/hr

238596 m^3/hr ÷ 11 min/hr = 21690.54 m^3/min = 361.51 m^3/s

Travel Car 87300 m^3/hr

3 min travel/push x 11 pushes/hr = 33 min/hr

87300 m^3/hr ÷ 33 min/hr = 2645.45 m^3/min = 44.09 m^3/s

Decarbonizing 4274.4 m^3/hr = 1.19 m^3/s

TOTAL FLOW **414.72 m^3/s**

BATTERIES 13-15 Fugitive Emission Flow Rates

Charging 3 x 789.4 m^3/hr = 2367 m^3/hr

Charges: 4 min/charge x 10 charges/hr = 40 min/hr

2367 m^3/hr ÷ 40 min charge/hr = 59.18 m^3/min = 0.99 m^3/s

Door Leaks 3 x 1341.6 m^3/hr = 4024.8 m^3/hr = 1.12 m^3/s

Lid Leaks 3 x 3552 m^3/hr = 10656 m^3/hr = 2.96 m^3/s

Off-Take Leaks 3 x 789 m^3/hr = 2367 m^3/hr = 0.66 m^3/s

Pushing 238596 m^3/hr

1 min/push x 10 pushes/hr = 10 min/hr

238596 m^3/hr ÷ 10 min/hr = 23859.6 m^3/min = 397.66 m^3/s

Travel Car 111869 m^3/hr

3 min travel/push x 10 pushes/hr = 30 min/hr

111869 m^3/hr ÷ 30 min/hr = 3728.9 m^3/min = 62.15 m^3/s

Decarbonizing 5394.6 m^3/hr = 1.50 m^3/s

TOTAL FLOW **467.04 m^3/s**

BATTERIES 19-20 Fugitive Emission Flow Rates

Charging 2 x 1341.6 m^3/hr = 2683.2 m^3/hr

Charges: 4 min/charge x 10 charges/hr = 40 min/hr

2683.2 m^3/hr ÷ 40 min charge/hr = 67.08 m^3/min = 1.12 m^3/s

Door Leaks 11808.6 m^3/hr + 6038.4 m^3/hr = 17847 m^3/hr = 4.96 m^3/s

Lid Leaks 2 x 1341.6 m^3/hr = 2683.2 m^3/hr = 0.75 m^3/s

Off-Take Leaks 2 x 2281.2 m^3/hr = 4562.4 m^3/hr = 1.27 m^3/s

Pushing 238596 m^3/hr

1 min/push x 10 pushes/hr = 10 min/hr

238596 m^3/hr ÷ 10 min/hr = 23859.6 m^3/min = 397.66 m^3/s

Travel Car 98118 m^3/hr

3 min travel/push x 10 pushes/hr = 30 min/hr

98118 m^3/hr ÷ 30 min/hr = 1635.3 m^3/min = 27.26 m^3/s

Decarbonizing 4947.6 m^3/hr = 1.37 m^3/s

TOTAL FLOW **434.39 m^3/s**

BATTERY B Fugitive Emission Flow Rates

Charging 2128.8 m^3/hr

Charges: 4 min/charge x 4 charges/hr = 16 min/hr

2128.8 m^3/hr ÷ 16 min charge/hr = 133.05 m^3/min = 2.22 m^3/s

Door Leaks 9578.4 m^3/hr = 2.66 m^3/s

Lid Leaks 2128.8 m^3/hr = 0.59 m^3/s

Off-Take Leaks 3618.6 m^3/hr = 1.01 m^3/s

Pushing 87366 m^3/hr

1 min/push x 4 pushes/hr = 4 min/hr

87366 m^3/hr ÷ 4 min/hr = 21841.5 m^3/min = 364.03 m^3/s

Travel Car 82998 m^3/hr

3 min travel/push x 4 pushes/hr = 12 min/hr

82998 m^3/hr ÷ 12 min/hr = 6916.5 m^3/min = 115.28 m^3/s

Decarbonizing 4227 m^3/hr = 1.17 m^3/s

TOTAL FLOW **486.96 m^3/s**

Plume Rise treatment for coke oven fugitive emissions

The coke oven fugitive emissions leave the battery with an enormous plume rise. Plume rise values of over 900 feet are normal for this source. this plume rise is dependant of two factors -- the buoyancy of these hot gases, and the momentum of this amount of emissions leaving the batteries.

The batteries create an immense buoyancy due to the heat transfer from the large heated surface to the atmosphere. A paper "Ambient Air Concentration Estimates from Coke Oven Emissions at the U.S. Steel Clairton Coke Works", (D.E.Layland, J.B.Mersch, SRAB/MDAD/OAQPS/EPA, March 1985) gives and extensive discussion on buoyancy calculations for the Clairton batteries. An estimate of a volumetric flow rate based on the thermal air motion is provided in this document, and average temperatures of the batteries are provided. Battery B was not included in this document: it was calculated in a similar manner. An estimate of the buoyancy then can be calculated:

Batteries	Volume Flow (m3/s)	Door Temp K	Atm Temp K	FPrime = 9.81(vol.flow)(Ts-Ta)/Ta
1,2,3	900	500	300	3532.
7,8,9	900	500	300	3532.
13,14,15	870	500	300	3414.
19,20	820	500	300	3218.
B	690	500	300	2708.

There are a number of emission points on a battery line, however they are all caught together into one massive volume of heat and gases expelling the battery. A reasonable approximation of the activities of the batteries can be made by treating all the emission areas together as one line source. The battery emissions themselves add to the momentum that would be assist in the rise of the plume. Calculations of each batteries emission point exhaust rates are included on the next several pages. B Battery buoyancies were used for the proposed C Battery.

These two actions, the discharge of emissions and the heat transfer of the batteries, are two separate actions, yet they both react on the plume rise. The buoyancy of the plume can them be estimated from the addition of these two components.

Batteries	Buoyancy from Emissions	Buoyancy from battery surface	Total Buoyancy
1,2,3	3066.	3532.	6598.
7,8,9	3102.	3532.	6634.
13,14,15	3494.	3414.	6908.
19,20	3249.	3218.	6467.
B	3643.	2708.	6351.
C	3643.	2708.	6351.

This total buoyancy term was used in the BLP model to calculate the contributions of the batteries on the receptors in the overall attainment model.

L	is the average building (line) length (m),
H_B	is the average building height (m),
W_M	is the average line source width (m),
W_B	is the average building width (m),
δ_x	is the average spacing between buildings (m), and
F'	is the average line source buoyancy parameter (m^4/s^3)

where

$$F' = \frac{g\ L\ W_M\ w\ (T_s - T_a)}{T_s}$$

and

g	is the gravitational acceleration (m/s^2),
w	is the exit velocity (m/s),
T_s	is the exit temperature (K), and
T_a	is the ambient air temperature (K)

$PM_{2.5}$ SIP

Appendix J

Attainment Demonstration

J-1: Annual Standard Attainment Test

J-2: 24-Hour Standard Attainment Test

J-3: Impact Tables

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Appendix J: ATTAINMENT DEMONSTRATION

Calculation of combined impacts and design values are provided in this section. Model input/output and post-processing files have been given in Appendix G (or on the accompanying DVD).

J-1: Annual Standard Attainment Test

The annual standard attainment tests for Liberty and Clairton are given in this section. Calculations are based on the steps listed in the attainment test methodology section, taken from EPA Modeling Guidance. Below is a key to terms used in the subsequent charts for the attainment tests. [Note: Substitute Clairton (CL) FRM for Liberty (LB) FRM for the Clairton tests.]

TERMS

LB_FRMw	Liberty FRM weighted average concentration (baseline)
LB_FRMc	Liberty FRM concentration, concurrent with speciation samples
LB_FRMf	Liberty FRM future projected concentration
Blank	Passive blank mass (constant)
Non-Blank	Sum of all species but passive blank
OCMmb	Organic Carbon Mass by mass balance (FRM minus other species)
OC	Organic Carbon (measured)
OCfloor	Organic Carbon floor (OC*1.4*0.7)
EC	Elemental Carbon (measured)
TotalC	Elemental + Organic Carbon (modeled or calculated)
SO4	Sulfate (modeled or measured)
NO3r	Retained Nitrate, calculated by EPA using PIT temp and relative humidity
NO3	Nitrate (modeled or measured)
NH4r	Retained (or Indirect) Ammonium, calculated from DON, sulfate, and retained nitrate
PBWcalc	Particle Bound Water, calculated by polynomial fitted to AIM
DON	Degree of Neutralization
Crustal(alt)	Crustal Component, calculated from Si, Ti, Ca, and Fe (not Al)
OPP	Other Primary PM2.5 (analogous to alternative crustal and A25 from CMAQ)
A25	Primary Unspeciated PM2.5 from CMAQ (analogous to crustal or OPP)

Liberty Annual Test – Baseline FRM Values

FRM Quarterly Avgs

Year	Qtr	Avg
2000	**1Q**	20.278
2000	**2Q**	21.865
2000	**3Q**	20.838
2000	**4Q**	20.681

Year	Qtr	Avg
2001	**1Q**	19.448
2001	**2Q**	25.600
2001	**3Q**	25.621
2001	**4Q**	21.539

Year	Qtr	Avg
2002	**1Q**	18.141
2002	**2Q**	22.051
2002	**3Q**	25.166
2002	**4Q**	15.825

Year	Qtr	Avg
2003	**1Q**	17.112
2003	**2Q**	19.470
2003	**3Q**	22.977
2003	**4Q**	21.266

Year	Qtr	Avg
2004	**1Q**	16.680
2004	**2Q**	20.716
2004	**3Q**	26.301
2004	**4Q**	18.959

Quarterly Avgs (3-Year)

3-Year Period	Qtr	Avg
2000-2002	**1Q**	19.289
2000-2002	**2Q**	23.172
2000-2002	**3Q**	23.875
2000-2002	**4Q**	19.348

3-Year Period	Qtr	Avg
2001-2003	**1Q**	18.234
2001-2003	**2Q**	22.374
2001-2003	**3Q**	24.588
2001-2003	**4Q**	19.543

3-Year Period	Qtr	Avg
2002-2004	**1Q**	17.311
2002-2004	**2Q**	20.746
2002-2004	**3Q**	24.815
2002-2004	**4Q**	18.683

Weighted Quarterly Avgs

Qtr	Avg
1Q	18.278
2Q	22.097
3Q	24.426
4Q	19.192

Liberty Annual Test – SANDWICH Species Reconstruction

YEAR	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC
2003	**4Q**	23.0500	3.4310	4.5790	0.4490	0.5510	0.3661	8.0690
2004	**1Q**	11.8769	0.9600	3.2069	1.2638	0.3931	0.3283	3.1262
2004	**2Q**	21.0500	2.9277	6.0354	0.0000	0.6315	0.3578	5.7354
2004	**3Q**	21.6417	2.6967	6.0742	0.0000	0.5482	0.3061	5.6300
2004	**4Q**	20.6500	2.6758	4.4708	0.5592	0.6600	0.3715	6.5750

AVGs	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC	OCfloor	NH4r
	1Q	11.8769	0.9600	3.2069	1.2638	0.3931	0.3283	3.1262	3.0636	1.4194
	2Q	21.0500	2.9277	6.0354	0.0000	0.6315	0.3578	5.7354	5.6207	2.1597
	3Q	21.6417	2.6967	6.0742	0.0000	0.5482	0.3061	5.6300	5.5174	1.8592
	4Q	21.8500	3.0534	4.5249	0.5041	0.6055	0.3688	7.3220	7.1756	1.8150

PBW Calculation

- Calculated from SO4, NO3r, and NH4r
- NH4r calculated from DON, SO4, NO3r
- DON > 0.225, low acidity equation

SO4	NO3r	NH4r
3.2069	1.2638	1.4194
6.0354	0.0000	2.1597
6.0742	0.0000	1.8592
4.5249	0.5041	1.8150

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	PBWcalc
0.5445	0.2146	0.2410	-20574.6078	-130.0236	20704.8009	0.1696	0.9988
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	2.6185
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.2957
0.6612	0.0737	0.2652	-23247.8924	-180.1287	23428.3020	0.2809	1.9228

Methodology:

- Use measured SO4 and EC
- Use retained nitrate (calculated)
- Use calculated indirect NH4 (retained) method for baseline and future
- Use crustal (alt) for other particulate PM2.5 (OPP)
- Use calculated particle bound water for baseline and future
- Degrees of Neutralization (DON) constant from base to future

Liberty Annual Test – Relative Compositions

Quarterly Averages

AVGs	QTR	LB_FRMc	Blank	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc
	1Q	11.8769	0.5000	11.3769	3.1349	0.9600	3.2069	1.2638	0.3931	1.4194	0.9988
	2Q	21.0500	0.5000	20.5500	6.1771	2.9277	6.0354	0.0000	0.6315	2.1597	2.6185
	3Q	21.6417	0.5000	21.1417	7.6678	2.6967	6.0742	0.0000	0.5482	1.8592	2.2957
	4Q	21.8500	0.5000	21.3500	8.9243	3.0534	4.5249	0.5041	0.6055	1.8150	1.9228

Relative Compositions (fractions of Non-Blank)

FRACT	QTR	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc
	1Q	1.0000	0.2755	0.0844	0.2819	0.1111	0.0346	0.1248	0.0878
	2Q	1.0000	0.3006	0.1425	0.2937	0.0000	0.0307	0.1051	0.1274
	3Q	1.0000	0.3627	0.1276	0.2873	0.0000	0.0259	0.0879	0.1086
	4Q	1.0000	0.4180	0.1430	0.2119	0.0236	0.0284	0.0850	0.0901

Weighted Quarterly Composition

WEIGHT	QTR	LB_FRMw	Blank	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc	DON
	1Q	18.2778	0.5000	17.7778	4.898616	1.5001	5.0112	1.9749	0.6142	2.2179	1.5608	0.3283
	2Q	22.0970	0.5000	21.5970	6.491846	3.0769	6.3429	0.0000	0.6637	2.2698	2.7519	0.3578
	3Q	24.4259	0.5000	23.9259	8.677582	3.0518	6.8741	0.0000	0.6204	2.1040	2.5980	0.3061
	4Q	19.1917	0.5000	18.6917	7.813162	2.6732	3.9615	0.4413	0.5301	1.5890	1.6834	0.3688

Liberty Annual Test – Quarterly Compositions, Combined Modeled Carbons

Baseline Quarterly Compositions

Baseline (2002)	QTR	LB_FRMw	Blank	Non-Blank	OCMmb	EC	TotalC	SO4	NO3r	OPP	NH4r	PBWcalc	DON
Avg	1Q	18.2778	0.5000	17.7778	4.8986	1.5001	6.3987	5.0112	1.9749	0.6142	2.2179	1.5608	0.3283
Avg	2Q	22.0970	0.5000	21.5970	6.4918	3.0769	9.5687	6.3429	0.0000	0.6637	2.2698	2.7519	0.3578
Avg	3Q	24.4259	0.5000	23.9259	8.6776	3.0518	11.7294	6.8741	0.0000	0.6204	2.1040	2.5980	0.3061
Avg	4Q	19.1917	0.5000	18.6917	7.8132	2.6732	10.4864	3.9615	0.4413	0.5301	1.5890	1.6834	0.3688
	AVG	**20.9981**											

Modeled Total Carbon (CMAQ - modeled CMAQ equivalent + modeled Liberty nearby)

Baseline (2002)	QTR	CMAQ	CMAQ Equiv	Liberty Nearby	TotalC
Avg	1Q	5.1254	1.4167	10.5117	14.2205
Avg	2Q	3.6771	1.8561	9.3809	11.2019
Avg	3Q	4.4407	2.3062	9.8994	12.0339
Avg	4Q	5.0019	1.6817	7.7244	11.0445

Future Projected (2014)	QTR	CMAQ	CMAQ Equiv	Liberty Nearby	TotalC
Avg	1Q	4.6131	1.6111	5.9295	8.9314
Avg	2Q	3.3040	2.0500	5.2880	6.5421
Avg	3Q	3.9889	2.4700	5.5947	7.1136
Avg	4Q	4.5940	1.7786	4.6393	7.4547

Liberty Annual Test – RRFs

CMAQ Modeled Species, with ACHD Adjusted Carbon

Baseline (2002)	QTR	TotalC	SO4	NO3	A25
Avg	1Q	14.2205	2.5160	4.1174	2.9545
Avg	2Q	11.2019	6.1574	1.5524	1.8452
Avg	3Q	12.0339	9.6876	0.9486	2.0878
Avg	4Q	11.0445	3.3985	5.5314	2.9253

Future Projected (2014)	QTR	TotalC	SO4	NO3	A25
Avg	1Q	8.9314	2.1181	3.9782	3.1346
Avg	2Q	6.5421	3.6307	1.3358	2.0315
Avg	3Q	7.1136	5.4068	0.7892	2.3275
Avg	4Q	7.4547	2.7258	5.0980	3.1525

RRFs (Future Projected divided by Baseline)

RRF	QTR	TotalC	SO4	NO3	A25
Ratio	1Q	0.6281	0.8418	0.9662	1.0609
Ratio	2Q	0.5840	0.5897	0.8604	1.1010
Ratio	3Q	0.5911	0.5581	0.8319	1.1148
Ratio	4Q	0.6750	0.8021	0.9216	1.0777

Liberty Annual Test – Future Projected and Design Values

Future Projected Compositions

Future Projected (2014)	QTR	LB_FRMf	Blank	Non-Blank	PBWcalc	NH4r	TotalC	SO4	NO3r	OPP	DON
Avg	**1Q**	14.5383	0.5000	14.0383	1.3027	1.9384	4.0188	4.2186	1.9081	0.6517	0.3283
Avg	**2Q**	13.5201	0.5000	13.0201	1.6227	1.3384	5.5883	3.7401	0.0000	0.7307	0.3578
Avg	**3Q**	14.5860	0.5000	14.0860	1.4500	1.1743	6.9336	3.8365	0.0000	0.6916	0.3061
Avg	**4Q**	14.3708	0.5000	13.8708	1.3477	1.2898	7.0779	3.1774	0.4067	0.5713	0.3688
	AVG	**14.2538**									

PBW Calculation

- Calculated from SO4, NO3r, and NH4r
- NH4r calculated from DON, SO4, NO3r
- DON > 0.225, low acidity equation

SO4	NO3r	NH4r
4.2186	1.9081	1.9384
3.7401	0.0000	1.3384
3.8365	0.0000	1.1743
3.1774	0.4067	1.2898

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5231	0.2366	0.2403	-20513.8060	-119.9254	20633.8929	0.1615	1.3027
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	1.6227
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	1.4500
0.6519	0.0835	0.2646	-23188.0772	-176.1440	23364.4977	0.2765	1.3477

Design Values

Case	Year	Value
Baseline	2002	**21.0**
Future Projected	2014	**14.3**

Clairton Annual Test – Baseline FRM Values

FRM Quarterly Avgs

Year	Qtr	Avg
2000	**1Q**	20.278
2000	**2Q**	21.865
2000	**3Q**	20.838
2000	**4Q**	20.681

Year	Qtr	Avg
2001	**1Q**	19.448
2001	**2Q**	25.600
2001	**3Q**	25.621
2001	**4Q**	21.539

Year	Qtr	Avg
2002	**1Q**	18.141
2002	**2Q**	22.051
2002	**3Q**	25.166
2002	**4Q**	15.825

Year	Qtr	Avg
2003	**1Q**	17.112
2003	**2Q**	19.470
2003	**3Q**	22.977
2003	**4Q**	21.266

Year	Qtr	Avg
2004	**1Q**	16.680
2004	**2Q**	20.716
2004	**3Q**	26.301
2004	**4Q**	18.959

Quarterly Avgs (3-Year)

3-Year Period	Qtr	Avg
2000-2002	**1Q**	19.289
2000-2002	**2Q**	23.172
2000-2002	**3Q**	23.875
2000-2002	**4Q**	19.348

3-Year Period	Qtr	Avg
2001-2003	**1Q**	18.234
2001-2003	**2Q**	22.374
2001-2003	**3Q**	24.588
2001-2003	**4Q**	19.543

3-Year Period	Qtr	Avg
2002-2004	**1Q**	17.311
2002-2004	**2Q**	20.746
2002-2004	**3Q**	24.815
2002-2004	**4Q**	18.683

Weighted Quarterly Avgs

Qtr	Avg
1Q	18.278
2Q	22.097
3Q	24.426
4Q	19.192

Clairton Annual Test – SANDWICH Species Reconstruction

YEAR	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC
2003	**4Q**	23.0500	3.4310	4.5790	0.4490	0.5510	0.3661	8.0690
2004	**1Q**	11.8769	0.9600	3.2069	1.2638	0.3931	0.3283	3.1262
2004	**2Q**	21.0500	2.9277	6.0354	0.0000	0.6315	0.3578	5.7354
2004	**3Q**	21.6417	2.6967	6.0742	0.0000	0.5482	0.3061	5.6300
2004	**4Q**	20.6500	2.6758	4.4708	0.5592	0.6600	0.3715	6.5750

AVGs	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC	OCfloor	NH4r
	1Q	11.8769	0.9600	3.2069	1.2638	0.3931	0.3283	3.1262	3.0636	1.4194
	2Q	21.0500	2.9277	6.0354	0.0000	0.6315	0.3578	5.7354	5.6207	2.1597
	3Q	21.6417	2.6967	6.0742	0.0000	0.5482	0.3061	5.6300	5.5174	1.8592
	4Q	21.8500	3.0534	4.5249	0.5041	0.6055	0.3688	7.3220	7.1756	1.8150

PBW Calculation

- Calculated from SO4, NO3r, and NH4r
- NH4r calculated from DON, SO4, NO3r
- DON > 0.225, low acidity equation

SO4	NO3r	NH4r
3.2069	1.2638	1.4194
6.0354	0.0000	2.1597
6.0742	0.0000	1.8592
4.5249	0.5041	1.8150

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	PBWcalc
0.5445	0.2146	0.2410	-20574.6078	-130.0236	20704.8009	0.1696	0.9988
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	2.6185
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.2957
0.6612	0.0737	0.2652	-23247.8924	-180.1287	23428.3020	0.2809	1.9228

Methodology:

- Assume Liberty species compositions are representative of Clairton (but at smaller concentrations)
- Use measured SO4 and EC
- Use retained nitrate (calculated)
- Use calculated indirect NH4 (retained) method for baseline and future
- Use crustal (alt) for other particulate PM2.5 (OPP)
- Use calculated particle bound water for baseline and future
- Degrees of Neutralization (DON) constant from base to future

Clairton Annual Test – Relative Compositions

Quarterly Averages (Liberty FRM used to generate compositions)

AVGs	QTR	LB_FRMc	Blank	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc
	1Q	11.8769	0.5000	11.3769	3.1349	0.9600	3.2069	1.2638	0.3931	1.4194	0.9988
	2Q	21.0500	0.5000	20.5500	6.1771	2.9277	6.0354	0.0000	0.6315	2.1597	2.6185
	3Q	21.6417	0.5000	21.1417	7.6678	2.6967	6.0742	0.0000	0.5482	1.8592	2.2957
	4Q	21.8500	0.5000	21.3500	8.9243	3.0534	4.5249	0.5041	0.6055	1.8150	1.9228

Relative Compositions (fractions of Non-Blank)

FRACT	QTR	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc
	1Q	1.0000	0.2755	0.0844	0.2819	0.1111	0.0346	0.1248	0.0878
	2Q	1.0000	0.3006	0.1425	0.2937	0.0000	0.0307	0.1051	0.1274
	3Q	1.0000	0.3627	0.1276	0.2873	0.0000	0.0259	0.0879	0.1086
	4Q	1.0000	0.4180	0.1430	0.2119	0.0236	0.0284	0.0850	0.0901

Weighted Quarterly Compositions (Clairton weighted FRM with species fractions from Liberty)

WEIGHT	QTR	CL_FRMw	Blank	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc	DON
	1Q	13.9271	0.5000	13.4271	3.6998	1.1330	3.7848	1.4916	0.4639	1.6751	1.1788	0.3283
	2Q	17.3044	0.5000	16.8044	5.0513	2.3941	4.9353	0.0000	0.5164	1.7661	2.1413	0.3578
	3Q	20.9413	0.5000	20.4413	7.4138	2.6073	5.8730	0.0000	0.5300	1.7976	2.2196	0.3061
	4Q	14.7063	0.5000	14.2063	5.9382	2.0317	3.0109	0.3354	0.4029	1.2077	1.2794	0.3688

Clairton Annual Test – Quarterly Compositions, Combined Modeled Carbons

Baseline Quarterly Compositions

Baseline (2002)	QTR	CL_FRMw	Blank	Non-Blank	OCMmb	EC	TotalC	SO4	NO3r	OPP	NH4r	PBWcalc	DON
Avg	1Q	13.9271	0.5000	13.4271	3.6998	1.1330	4.8328	3.7848	1.4916	0.4639	1.6751	1.1788	0.3283
Avg	2Q	17.3044	0.5000	16.8044	5.0513	2.3941	7.4453	4.9353	0.0000	0.5164	1.7661	2.1413	0.3578
Avg	3Q	20.9413	0.5000	20.4413	7.4138	2.6073	10.0211	5.8730	0.0000	0.5300	1.7976	2.2196	0.3061
Avg	4Q	14.7063	0.5000	14.2063	5.9382	2.0317	7.9700	3.0109	0.3354	0.4029	1.2077	1.2794	0.3688
	AVG	**16.7198**											

Modeled Total Carbon (CMAQ - modeled CMAQ equivalent + modeled Clairton nearby)

Baseline (2002)	QTR	CMAQ	CMAQ Equiv	Clairton Nearby	TotalC
Avg	1Q	5.1254	1.4167	2.0177	5.7265
Avg	2Q	3.6771	1.8561	4.0775	5.8985
Avg	3Q	4.4407	2.3062	7.7318	9.8663
Avg	4Q	5.0019	1.6817	3.9413	7.2615

Future Projected (2014)	QTR	CMAQ	CMAQ Equiv	Clairton Nearby	TotalC
Avg	1Q	4.6131	1.6111	1.5923	4.5943
Avg	2Q	3.3040	2.0500	2.7064	3.9605
Avg	3Q	3.9889	2.4700	4.4092	5.9281
Avg	4Q	4.5940	1.7786	2.4705	5.2859

Clairton Annual Test – RRFs

CMAQ Modeled Species, with ACHD Adjusted Carbon

Baseline (2002)	QTR	TotalC	SO4	NO3	A25
Avg	1Q	5.7265	2.5160	4.1174	2.9545
Avg	2Q	5.8985	6.1574	1.5524	1.8452
Avg	3Q	9.8663	9.6876	0.9486	2.0878
Avg	4Q	7.2615	3.3985	5.5314	2.9253

Future Projected (2014)	QTR	TotalC	SO4	NO3	A25
Avg	1Q	4.5943	2.1181	3.9782	3.1346
Avg	2Q	3.9605	3.6307	1.3358	2.0315
Avg	3Q	5.9281	5.4068	0.7892	2.3275
Avg	4Q	5.2859	2.7258	5.0980	3.1525

RRFs (Future Projected divided by Baseline)

RRF	QTR	TotalC	SO4	NO3	A25
Ratio	1Q	0.8023	0.8418	0.9662	1.0609
Ratio	2Q	0.6714	0.5897	0.8604	1.1010
Ratio	3Q	0.6008	0.5581	0.8319	1.1148
Ratio	4Q	0.7279	0.8021	0.9216	1.0777

Clairton Annual Test – Future Projected and Design Values

Future Projected Compositions

Future Projected (2014)	QTR	CL_FRMf	Blank	Non-Blank	PBWcalc	NH4r	TotalC	SO4	NO3r	OPP	DON
Avg	**1Q**	11.9447	0.5000	11.4447	0.9839	1.4640	3.8773	3.1862	1.4412	0.4922	0.3283
Avg	**2Q**	11.2818	0.5000	10.7818	1.2626	1.0414	4.9991	2.9101	0.0000	0.5686	0.3578
Avg	**3Q**	12.6319	0.5000	12.1319	1.2388	1.0033	6.0211	3.2778	0.0000	0.5909	0.3061
Avg	**4Q**	11.4645	0.5000	10.9645	1.0243	0.9803	5.8017	2.4149	0.3091	0.4342	0.3688
	AVG	**11.8307**									

PBW Calculation

- Calculated from SO4, NO3r, and NH4r
- NH4r calculated from DON, SO4, NO3r
- DON > 0.225, low acidity equation

SO4	NO3r	NH4r
3.1862	1.4412	1.4640
2.9101	0.0000	1.0414
3.2778	0.0000	1.0033
2.4149	0.3091	0.9803

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5231	0.2366	0.2403	-20513.8060	-119.9254	20633.8929	0.1615	0.9839
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	1.2626
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	1.2388
0.6519	0.0835	0.2646	-23188.0772	-176.1440	23364.4977	0.2765	1.0243

Design Values

Case	Year	Value
Baseline	2002	**16.7**
Future Projected	2014	**11.8**

J-2: 24-Hour Standard Attainment Test

The 24-hour attainment tests for Liberty and Clairton are given in this section. Calculations are based on the steps listed in the attainment test methodology section, taken from EPA Modeling Guidance. Species reconstruction calculations are similar to the steps used for the annual test. However, the analysis is based on modeled and observed high days rather than averages. Below is a key to terms used in the subsequent charts for the attainment tests. [Note: Substitute Clairton (CL) FRM for Liberty (LB) FRM for the Clairton tests.]

TERMS

LB_FRMh	Liberty FRM baseline high day concentration
LB_FRMc	Liberty FRM concentration, concurrent with speciation samples
LB_FRMf	Liberty FRM future projected concentration
Blank	Passive blank mass (constant)
Non-Blank	Sum of all species but passive blank
OCMmb	Organic Carbon Mass by mass balance (FRM minus other species)
OC	Organic Carbon (measured)
OCfloor	Organic Carbon floor (OC*1.4*0.7)
EC	Elemental Carbon (measured)
TotalC	Elemental + Organic Carbon (modeled or calculated)
SO4	Sulfate (modeled or measured)
NO3r	Retained Nitrate, calculated by EPA using PIT temp and relative humidity
NO3	Nitrate (modeled or measured)
NH4r	Retained (or Indirect) Ammonium, calculated from DON, sulfate, and retained nitrate
PBWcalc	Particle Bound Water, calculated by polynomial fitted to AIM
DON	Degree of Neutralization
Crustal(alt)	Crustal Component, calculated from Si, Ti, Ca, and Fe (not Al)
OPP	Other Primary PM2.5 (analogous to alternative crustal and A25 from CMAQ)
A25	Primary Unspeciated PM2.5 from CMAQ (analogous to OPP)

Liberty 24-Hour Test – Baseline Observed (FRM) High Days

Methodology:

- Identify official 98th percentile value for each year
- Identify highest day in each quarter equal to or below yearly 98th-percentile

FRM High Days

	2000	2001	2002	2003	2004
98th-Percentile	**64.2**	**63.9**	**59.9**	**66.6**	**68.5**

High Days	2000	2001	2002	2003	2004
1Q	46.7	61.9	50.8	60.4	64.2
2Q	64.2	63.9	58.2	66.6	59.6
3Q	48.6	56.4	59.9	60.8	64.2
4Q	60.3	57.5	56.8	64.8	68.5

Liberty 24-Hour Test – SANDWICH Species Reconstruction for High Days

Methodology:

- Identify highest 25% (top 3 days for 1-in-6 monitor) of speciation days, by concurrent FRM value
- Calculate quarterly averages of high day species

YEAR	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC
2003	**4Q**	45.5333	7.4367	6.3400	0.6433	1.0333	0.3750	16.8333
2004	**1Q**	23.7667	3.0633	5.5200	1.7867	0.7400	0.3750	6.2733
2004	**2Q**	48.8000	7.4633	14.0533	0.0000	1.0367	0.3750	14.1233
2004	**3Q**	42.6333	6.1533	10.1200	0.0000	0.7300	0.3300	11.5633
2004	**4Q**	40.6333	7.1033	7.3867	0.0000	1.0000	0.3750	14.3733

AVGs	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC	OCfloor	NH4r
	1Q	23.7667	3.0633	5.5200	1.7867	0.7400	0.3750	6.2733	6.1479	2.5881
	2Q	48.8000	7.4633	14.0533	0.0000	1.0367	0.3750	14.1233	13.8409	5.2700
	3Q	42.6333	6.1533	10.1200	0.0000	0.7300	0.3300	11.5633	11.3321	3.3396
	4Q	43.0833	7.2700	6.8633	0.3217	1.0167	0.3750	15.6033	15.2913	2.6670

PBW Calculation

- Calculated from SO4, NO3r, and NH4r
- NH4r calculated from DON, SO4, NO3r
- DON > 0.225, low acidity equation

SO4	NO3r	NH4r
5.5200	1.7867	2.5881
14.0533	0.0000	5.2700
10.1200	0.0000	3.3396
6.8633	0.3217	2.6670

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	PBWcalc
0.5579	0.1806	0.2616	-22883.8778	-134.1956	23018.2516	0.1781	1.7627
0.7273	0.0000	0.2727	-24075.3421	-206.5969	24282.2458	0.3068	5.9290
0.7519	0.0000	0.2481	-21279.4654	-224.6079	21504.3893	0.3160	4.2532
0.6966	0.0326	0.2707	-23858.5521	-194.3152	24053.1608	0.2934	2.8910

Liberty 24-Hour Test – Quarterly Compositions for High Days

Methodology:

- Use measured SO4 and EC
- Use retained nitrate (calculated)
- Use calculated indirect NH4 (retained) method for baseline and future
- Use crustal (alt) for other particulate PM2.5 (OPP)
- Use calculated particle bound water for baseline and future
- Degrees of Neutralization (DON) constant from base to future
- Apply quarterly relative compositions to each quarterly high day in 5-year period

Quarterly Averages

AVGs	QTR	LB_FRMc	Blank	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc	DON
	1Q	23.7667	0.5000	23.2667	7.8059	3.0633	5.5200	1.7867	0.7400	2.5881	1.7627	0.375
	2Q	48.8000	0.5000	48.3000	14.5477	7.4633	14.0533	0.0000	1.0367	5.2700	5.9290	0.375
	3Q	42.6333	0.5000	42.1333	17.5372	6.1533	10.1200	0.0000	0.7300	3.3396	4.2532	0.330
	4Q	43.0833	0.5000	42.5833	21.5537	7.2700	6.8633	0.3217	1.0167	2.6670	2.8910	0.375

Relative Compositions (fractions of Non-Blank)

FRACT	QTR	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc
	1Q	1.0000	0.3355	0.1317	0.2372	0.0768	0.0318	0.1112	0.0758
	2Q	1.0000	0.3012	0.1545	0.2910	0.0000	0.0215	0.1091	0.1228
	3Q	1.0000	0.4162	0.1460	0.2402	0.0000	0.0173	0.0793	0.1009
	4Q	1.0000	0.5062	0.1707	0.1612	0.0076	0.0239	0.0626	0.0679

Liberty 24-Hour Test – Baseline High Day Compositions

Baseline High Day Compositions

2000	QTR	LB_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	46.7	0.5	46.2	10.9609	3.5477	1.4694	21.5827	15.4999	6.0828	5.1392	3.5001	0.375
	2Q	64.2	0.5	63.7	18.5341	0.0000	1.3672	29.0290	19.1860	9.8429	6.9503	7.8194	0.375
	3Q	48.6	0.5	48.1	11.5531	0.0000	0.8334	27.0454	20.0207	7.0247	3.8125	4.8555	0.330
	4Q	60.3	0.5	59.8	9.6382	0.4517	1.4277	40.4772	30.2679	10.2093	3.7453	4.0598	0.375

2001	QTR	LB_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	61.9	0.5	61.4	14.5671	4.7150	1.9528	28.6835	20.5994	8.0840	6.8300	4.6516	0.375
	2Q	63.9	0.5	63.4	18.4468	0.0000	1.3608	28.8923	19.0957	9.7966	6.9176	7.7826	0.375
	3Q	56.4	0.5	55.9	13.4266	0.0000	0.9685	31.4312	23.2673	8.1639	4.4308	5.6429	0.330
	4Q	57.5	0.5	57.0	9.1869	0.4306	1.3609	38.5820	28.8507	9.7313	3.5700	3.8697	0.375

2002	QTR	LB_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	50.8	0.5	50.3	11.9336	3.8626	1.5998	23.4980	16.8754	6.6226	5.5953	3.8107	0.375
	2Q	58.2	0.5	57.7	16.7884	0.0000	1.2384	26.2947	17.3789	8.9158	6.2956	7.0829	0.375
	3Q	59.9	0.5	59.4	14.2673	0.0000	1.0292	33.3992	24.7241	8.6750	4.7082	5.9962	0.330
	4Q	56.8	0.5	56.3	9.0741	0.4253	1.3441	38.1082	28.4964	9.6118	3.5261	3.8222	0.375

2003	QTR	LB_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	60.4	0.5	59.9	14.2112	4.5998	1.9051	27.9827	20.0962	7.8865	6.6631	4.5380	0.375
	2Q	66.6	0.5	66.1	19.2324	0.0000	1.4187	30.1227	19.9089	10.2138	7.2122	8.1140	0.375
	3Q	60.8	0.5	60.3	14.4834	0.0000	1.0448	33.9052	25.0987	8.8065	4.7795	6.0871	0.330
	4Q	64.8	0.5	64.3	10.3635	0.4857	1.5351	43.5232	32.5456	10.9776	4.0272	4.3653	0.375

2004	QTR	LB_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	64.2	0.5	63.7	15.1128	4.8916	2.0260	29.7579	21.3711	8.3869	7.0858	4.8259	0.375
	2Q	59.6	0.5	59.1	17.1957	0.0000	1.2685	26.9327	17.8005	9.1322	6.4484	7.2548	0.375
	3Q	64.2	0.5	63.7	15.3001	0.0000	1.1037	35.8169	26.5139	9.3030	5.0490	6.4303	0.330
	4Q	68.5	0.5	68.0	10.9598	0.5137	1.6235	46.0276	34.4184	11.6092	4.2589	4.6165	0.375

Liberty 24-Hour Test – RRFs

Methodology:

- Apply modeled RRFs to modeled high day compositions for each quarter in 5 year period
- Use same SANDWICH species reconstruction for future as used in baseline (indirect NH4, calculated PBW)

Modeled High Day Species

(Total Carbon = CMAQ - modeled CMAQ equivalent + modeled Liberty nearby)

Baseline (2002)	QTR	SO4	NO3	A25	TOTALC
Avg	1Q	3.2066	4.8787	4.0141	28.9438
Avg	2Q	11.0324	1.3792	2.4018	24.5974
Avg	3Q	15.3512	1.2590	2.7443	25.4487
Avg	4Q	5.5906	7.7099	3.8504	24.9323

Future (2014)	QTR	SO4	NO3	A25	TOTALC
Avg	1Q	2.6960	5.5175	4.5303	15.7763
Avg	2Q	5.4634	2.2522	2.8623	12.4108
Avg	3Q	8.0339	1.4256	3.0960	13.3174
Avg	4Q	3.6355	8.7097	4.4953	13.9551

RRFs (Future Projected divided by Baseline)

RRF	QTR	SO4	NO3	A25	TOTALC
Ratio	1Q	0.8408	1.1309	1.1286	0.5451
Ratio	2Q	0.4952	1.6330	1.1917	0.5046
Ratio	3Q	0.5233	1.1323	1.1282	0.5233
Ratio	4Q	0.6503	1.1297	1.1675	0.5597

Liberty 24-Hour Test – Future Projected High Day Compositions (2000)

Future Projected High Day Compositions - 2000

2000	QTR	LB_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	34.2	0.5	33.7	9.2155	4.0122	1.6584	11.7639	4.1891	2.8515	0.3283
	2Q	33.2	0.5	32.7	9.1783	0.0000	1.6293	14.6469	3.2844	3.9821	0.3578
	3Q	25.8	0.5	25.3	6.0462	0.0000	0.9402	14.1530	1.8506	2.2851	0.3061
	4Q	36.7	0.5	36.2	6.2676	0.5103	1.6669	22.6559	2.4595	2.6705	0.3688

PBW Calc	SO4	NO3r	NH4r
	9.2155	4.0122	4.1891
	9.1783	0.0000	3.2844
	6.0462	0.0000	1.8506
	6.2676	0.5103	2.4595

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5291	0.2304	0.2405	-20530.9922	-122.7818	20653.9378	0.1637	2.8515
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	3.9821
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.2851
0.6785	0.0552	0.2663	-23360.4076	-187.5453	23548.2420	0.2891	2.6705

Liberty 24-Hour Test – Future Projected High Day Compositions (2001)

Future Projected High Day Compositions-2001

2001	QTR	LB_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	45.3	0.5	44.8	12.2474	5.3323	2.2040	15.6343	5.5673	3.7897	0.3283
	2Q	33.1	0.5	32.6	9.1351	0.0000	1.6217	14.5779	3.2690	3.9634	0.3578
	3Q	29.9	0.5	29.4	7.0267	0.0000	1.0926	16.4481	2.1507	2.6556	0.3061
	4Q	35.0	0.5	34.5	5.9741	0.4864	1.5888	21.5951	2.3443	2.5454	0.3688

PBW Calc	SO4	NO3r	NH4r
	12.2474	5.3323	5.5673
	9.1351	0.0000	3.2690
	7.0267	0.0000	2.1507
	5.9741	0.4864	2.3443

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5291	0.2304	0.2405	-20530.9922	-122.7818	20653.9378	0.1637	3.7897
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	3.9634
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.6556
0.6785	0.0552	0.2663	-23360.4076	-187.5453	23548.2420	0.2891	2.5454

Liberty 24-Hour Test – Future Projected High Day Compositions (2002)

Future Projected High Day Compositions-2002

2002	QTR	LB_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	37.2	0.5	36.7	10.0333	4.3683	1.8055	12.8079	4.5608	3.1046	0.3283
	2Q	30.1	0.5	29.6	8.3138	0.0000	1.4759	13.2672	2.9751	3.6070	0.3578
	3Q	31.7	0.5	31.2	7.4666	0.0000	1.1611	17.4779	2.2854	2.8219	0.3061
	4Q	34.6	0.5	34.1	5.9008	0.4804	1.5693	21.3299	2.3155	2.5142	0.3688

PBW Calc	SO4	NO3r	NH4r
	10.0333	4.3683	4.5608
	8.3138	0.0000	2.9751
	7.4666	0.0000	2.2854
	5.9008	0.4804	2.3155

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5291	0.2304	0.2405	-20530.9922	-122.7818	20653.9378	0.1637	3.1046
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	3.6070
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.8219
0.6785	0.0552	0.2663	-23360.4076	-187.5453	23548.2420	0.2891	2.5142

Liberty 24-Hour Test – Future Projected High Day Compositions (2003)

Future Projected High Day Compositions-2003

2003	QTR	LB_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	44.2	0.5	43.7	11.9482	5.2020	2.1501	15.2524	5.4313	3.6971	0.3283
	2Q	34.5	0.5	34.0	9.5242	0.0000	1.6907	15.1987	3.4082	4.1322	0.3578
	3Q	32.2	0.5	31.7	7.5798	0.0000	1.1786	17.7427	2.3200	2.8647	0.3061
	4Q	39.5	0.5	39.0	6.7392	0.5487	1.7923	24.3608	2.6446	2.8714	0.3688

PBW Calc	SO4	NO3r	NH4r
	11.9482	5.2020	5.4313
	9.5242	0.0000	3.4082
	7.5798	0.0000	2.3200
	6.7392	0.5487	2.6446

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5291	0.2304	0.2405	-20530.9922	-122.7818	20653.9378	0.1637	3.6971
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	4.1322
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.8647
0.6785	0.0552	0.2663	-23360.4076	-187.5453	23548.2420	0.2891	2.8714

Liberty 24-Hour Test – Future Projected High Day Compositions (2004)

Future Projected High Day Compositions - 2004

2004	QTR	LB_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	47.0	0.5	46.5	12.7062	5.5320	2.2865	16.2200	5.7758	3.9317	0.3283
	2Q	30.9	0.5	30.4	8.5155	0.0000	1.5117	13.5892	3.0473	3.6946	0.3578
	3Q	34.0	0.5	33.5	8.0071	0.0000	1.2451	18.7431	2.4509	3.0262	0.3061
	4Q	41.7	0.5	41.2	7.1270	0.5803	1.8954	25.7626	2.7967	3.0366	0.3688

PBW Calc	SO4	NO3r	NH4r
	12.7062	5.5320	5.7758
	8.5155	0.0000	3.0473
	8.0071	0.0000	2.4509
	7.1270	0.5803	2.7967

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5291	0.2304	0.2405	-20530.9922	-122.7818	20653.9378	0.1637	3.9317
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	3.6946
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	3.0262
0.6785	0.0552	0.2663	-23360.4076	-187.5453	23548.2420	0.2891	3.0366

Liberty 24-Hour Test – Future Projected High Days and Weighted Design Value

Future Projected FRM High Days

High Days	2000	2001	2002	2003	2004
1Q	34.2	45.3	37.2	44.2	47.0
2Q	33.2	33.1	30.1	34.5	30.9
3Q	25.8	29.9	31.7	32.2	34.0
4Q	36.7	35.0	34.6	39.5	41.7

	2000	2001	2002	2003	2004
98th-Percentile	**36.7**	**45.3**	**37.2**	**44.2**	**47.0**

3-Year Design Values

3-Year Period	Avg
2000-2002	39.7
2001-2003	42.2
2002-2004	42.8

Future Projected Weighted Average

5-Year Period	Avg
2000-2004	42

Clairton 24-Hour Test – Baseline Observed (FRM) High Days

Methodology:

- Identify official 98th percentile value for each year
- Identify highest day in each quarter equal to or below yearly 98th-percentile

FRM High Days

	2000	2001	2002	2003	2004
98th-Percentile		**44.5**	**50.4**	**58.8**	**39.8**

High Days	2000	2001	2002	2003	2004
1Q		22.9	20.2	24.1	16.7
2Q		44.5	50.4	58.8	26.3
3Q		36.5	39.8	37.0	39.8
4Q		31.5	35.0	21.1	26.4

Clairton 24-Hour Test – SANDWICH Species Reconstruction for High Days

Methodology:

- Identify highest 25% (top 3 days for 1-in-6 monitor) of speciation days, by concurrent FRM value
- Calculate quarterly averages of high day species

YEAR	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC
2003	**4Q**	45.5333	7.4367	6.3400	0.6433	1.0333	0.3750	16.8333
2004	**1Q**	23.7667	3.0633	5.5200	1.7867	0.7400	0.3750	6.2733
2004	**2Q**	48.8000	7.4633	14.0533	0.0000	1.0367	0.3750	14.1233
2004	**3Q**	42.6333	6.1533	10.1200	0.0000	0.7300	0.3300	11.5633
2004	**4Q**	40.6333	7.1033	7.3867	0.0000	1.0000	0.3750	14.3733

AVGs	QTR	LB_FRMc	EC	SO4	NO3r	Crustal(alt)	DON	OC	OCfloor	NH4r
	1Q	23.7667	3.0633	5.5200	1.7867	0.7400	0.3750	6.2733	6.1479	2.5881
	2Q	48.8000	7.4633	14.0533	0.0000	1.0367	0.3750	14.1233	13.8409	5.2700
	3Q	42.6333	6.1533	10.1200	0.0000	0.7300	0.3300	11.5633	11.3321	3.3396
	4Q	43.0833	7.2700	6.8633	0.3217	1.0167	0.3750	15.6033	15.2913	2.6670

PBW Calculation

- Calculated from SO4, NO3r, and NH4r
- NH4r calculated from DON, SO4, NO3r
- DON > 0.225, low acidity equation

SO4	NO3r	NH4r
5.5200	1.7867	2.5881
14.0533	0.0000	5.2700
10.1200	0.0000	3.3396
6.8633	0.3217	2.6670

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	PBWcalc
0.5579	0.1806	0.2616	-22883.8778	-134.1956	23018.2516	0.1781	1.7627
0.7273	0.0000	0.2727	-24075.3421	-206.5969	24282.2458	0.3068	5.9290
0.7519	0.0000	0.2481	-21279.4654	-224.6079	21504.3893	0.3160	4.2532
0.6966	0.0326	0.2707	-23858.5521	-194.3152	24053.1608	0.2934	2.8910

Clairton 24-Hour Test – Quarterly Compositions for High Days

Methodology:

- Assume Liberty species compositions are representative of Clairton (but at smaller concentrations)
- Use measured SO4 and EC
- Use retained nitrate (calculated)
- Use calculated indirect NH4 (retained) method for baseline and future
- Use crustal (alt) for other particulate PM2.5 (OPP)
- Use calculated particle bound water for baseline and future
- Degrees of Neutralization (DON) constant from base to future
- Apply quarterly relative compositions to each quarterly high day in 5-year period

Quarterly Averages (Liberty FRM used to generate compositions)

AVGs	QTR	LB_FRMc	Blank	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc	DON
	1Q	23.7667	0.5000	23.2667	7.8059	3.0633	5.5200	1.7867	0.7400	2.5881	1.7627	0.375
	2Q	48.8000	0.5000	48.3000	14.5477	7.4633	14.0533	0.0000	1.0367	5.2700	5.9290	0.375
	3Q	42.6333	0.5000	42.1333	17.5372	6.1533	10.1200	0.0000	0.7300	3.3396	4.2532	0.330
	4Q	43.0833	0.5000	42.5833	21.5537	7.2700	6.8633	0.3217	1.0167	2.6670	2.8910	0.375

Relative Compositions (fractions of Non-Blank)

FRACT	QTR	Non-Blank	OCMmb	EC	SO4	NO3r	OPP	NH4r	PBWcalc
	1Q	1.0000	0.3355	0.1317	0.2372	0.0768	0.0318	0.1112	0.0758
	2Q	1.0000	0.3012	0.1545	0.2910	0.0000	0.0215	0.1091	0.1228
	3Q	1.0000	0.4162	0.1460	0.2402	0.0000	0.0173	0.0793	0.1009
	4Q	1.0000	0.5062	0.1707	0.1612	0.0076	0.0239	0.0626	0.0679

Clairton 24-Hour Test – Baseline High Day Compositions

Baseline High Day Compositions (Clairton weighted FRM with species fractions from Liberty)

2001	QTR	CL_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	22.9	0.5	22.4	5.3144	1.7201	0.7124	10.4643	7.5151	2.9492	2.4917	1.6970	0.3750
	2Q	44.5	0.5	44.0	12.8022	0.0000	0.9444	20.0514	13.2525	6.7989	4.8008	5.4012	0.3750
	3Q	36.5	0.5	36.0	8.6468	0.0000	0.6237	20.2419	14.9843	5.2576	2.8535	3.6341	0.3300
	4Q	31.5	0.5	31.0	4.9964	0.2342	0.7401	20.9832	15.6907	5.2924	1.9416	2.1046	0.3750

2002	QTR	CL_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	20.2	0.5	19.7	4.6738	1.5128	0.6266	9.2030	6.6093	2.5937	2.1914	1.4925	0.3750
	2Q	50.4	0.5	49.9	14.5189	0.0000	1.0710	22.7401	15.0296	7.7106	5.4446	6.1254	0.3750
	3Q	39.8	0.5	39.3	9.4395	0.0000	0.6809	22.0974	16.3579	5.7395	3.1150	3.9672	0.3300
	4Q	35.0	0.5	34.5	5.5605	0.2606	0.8237	23.3523	17.4623	5.8900	2.1608	2.3422	0.3750

2003	QTR	CL_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	24.1	0.5	23.6	5.5991	1.8123	0.7506	11.0249	7.9177	3.1072	2.6252	1.7879	0.3750
	2Q	58.8	0.5	58.3	16.9629	0.0000	1.2513	26.5681	17.5596	9.0085	6.3611	7.1565	0.3750
	3Q	37.0	0.5	36.5	8.7669	0.0000	0.6324	20.5231	15.1924	5.3306	2.8931	3.6845	0.3300
	4Q	21.1	0.5	20.6	3.3202	0.1556	0.4918	13.9437	10.4267	3.5169	1.2902	1.3985	0.3750

2004	QTR	CL_FRMh	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	OCMmb	EC	NH4r	PBWcalc	DON
	1Q	16.7	0.5	16.2	3.8434	1.2440	0.5152	7.5679	5.4350	2.1329	1.8021	1.2273	0.3750
	2Q	26.3	0.5	25.8	7.5067	0.0000	0.5537	11.7574	7.7708	3.9866	2.8150	3.1670	0.3750
	3Q	39.8	0.5	39.3	9.4395	0.0000	0.6809	22.0974	16.3579	5.7395	3.1150	3.9672	0.3300
	4Q	26.4	0.5	25.9	4.1744	0.1956	0.6184	17.5311	13.1094	4.4218	1.6221	1.7583	0.3750

Clairton 24-Hour Test – RRFs

Methodology:

- Apply modeled RRFs to modeled high day compositions for each quarter in 5 year period
- Use same SANDWICH species reconstruction for future as used in baseline (indirect NH4, calculated PBW)

Modeled High Day Species

(Total Carbon = CMAQ - modeled CMAQ equivalent + modeled Clairton nearby)

Baseline (2002)	QTR	SO4	NO3	A25	TOTALC
Avg	1Q	3.3923	6.9342	4.2275	8.7011
Avg	2Q	11.1759	2.1162	2.5364	10.9683
Avg	3Q	14.3607	1.7461	2.7087	18.7943
Avg	4Q	5.4649	9.1134	4.2483	12.8309

Future (2014)	QTR	SO4	NO3	A25	TOTALC
Avg	1Q	2.7198	7.0642	4.5243	6.5736
Avg	2Q	5.8094	2.2107	2.9508	6.0933
Avg	3Q	8.1005	1.6617	3.1000	9.6738
Avg	4Q	3.1847	9.9989	4.6728	8.0735

RRFs (Future Projected divided by Baseline)

RRF	QTR	SO4	NO3	A25	TOTALC
Ratio	1Q	0.8018	1.0187	1.0702	0.7555
Ratio	2Q	0.5198	1.0447	1.1634	0.5555
Ratio	3Q	0.5641	0.9517	1.1445	0.5147
Ratio	4Q	0.5828	1.0972	1.0999	0.6292

Clairton 24-Hour Test – Future Projected High Day Compositions (2001)

Future Projected High Day Compositions - 2001

2001	QTR	CL_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	18.4	0.5	17.9	4.2609	1.7524	0.7624	7.9057	1.9071	1.3231	0.3283
	2Q	24.7	0.5	24.2	6.6548	0.0000	1.0987	11.1393	2.3814	2.8873	0.3578
	3Q	19.8	0.5	19.3	4.8774	0.0000	0.7139	10.4189	1.4929	1.8434	0.3061
	4Q	20.1	0.5	19.6	2.9117	0.2569	0.8141	13.2030	1.1483	1.2400	0.3688

PBW Calc	SO4	NO3r	NH4r
	4.2609	1.7524	1.9071
	6.6548	0.0000	2.3814
	4.8774	0.0000	1.4929
	2.9117	0.2569	1.1483

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5380	0.2212	0.2408	-20556.1609	-126.9622	20683.2901	0.1671	1.3231
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	2.8873
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	1.8434
0.6745	0.0595	0.2660	-23334.2825	-185.8331	23520.4028	0.2872	1.2400

Clairton 24-Hour Test – Future Projected High Day Compositions (2002)

Future Projected High Day Compositions - 2002

2002	QTR	CL_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	16.3	0.5	15.8	3.7473	1.5411	0.6705	6.9528	1.6772	1.1637	0.3283
	2Q	27.9	0.5	27.4	7.5472	0.0000	1.2460	12.6330	2.7007	3.2744	0.3578
	3Q	21.6	0.5	21.1	5.3245	0.0000	0.7793	11.3740	1.6298	2.0123	0.3061
	4Q	22.3	0.5	21.8	3.2404	0.2859	0.9060	14.6937	1.2780	1.3799	0.3688

PBW Calc	SO4	NO3r	NH4r
	3.7473	1.5411	1.6772
	7.5472	0.0000	2.7007
	5.3245	0.0000	1.6298
	3.2404	0.2859	1.2780

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5380	0.2212	0.2408	-20556.1609	-126.9622	20683.2901	0.1671	1.1637
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	3.2744
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.0123
0.6745	0.0595	0.2660	-23334.2825	-185.8331	23520.4028	0.2872	1.3799

Clairton 24-Hour Test – Future Projected High Day Compositions (2003)

Future Projected High Day Compositions - 2003

2003	QTR	CL_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	19.4	0.5	18.9	4.4891	1.8462	0.8033	8.3292	2.0092	1.3940	0.3283
	2Q	32.5	0.5	32.0	8.8176	0.0000	1.4557	14.7596	3.1554	3.8256	0.3578
	3Q	20.1	0.5	19.6	4.9452	0.0000	0.7238	10.5636	1.5136	1.8690	0.3061
	4Q	13.5	0.5	13.0	1.9349	0.1707	0.5410	8.7736	0.7631	0.8240	0.3688

PBW Calc	SO4	NO3r	NH4r
	4.4891	1.8462	2.0092
	8.8176	0.0000	3.1554
	4.9452	0.0000	1.5136
	1.9349	0.1707	0.7631

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5380	0.2212	0.2408	-20556.1609	-126.9622	20683.2901	0.1671	1.3940
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	3.8256
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	1.8690
0.6745	0.0595	0.2660	-23334.2825	-185.8331	23520.4028	0.2872	0.8240

Clairton 24-Hour Test – Future Projected High Day Compositions (2004)

Future Projected High Day Compositions - 2004

2004	QTR	CL_FRMf	Blank	Non-Blank	SO4	NO3r	OPP	TotalC	NH4r	PBWcalc	DON
	1Q	13.5	0.5	13.0	3.0815	1.2673	0.5514	5.7175	1.3792	0.9569	0.3283
	2Q	14.7	0.5	14.2	3.9021	0.0000	0.6442	6.5317	1.3964	1.6930	0.3578
	3Q	21.6	0.5	21.1	5.3245	0.0000	0.7793	11.3740	1.6298	2.0123	0.3061
	4Q	16.9	0.5	16.4	2.4327	0.2147	0.6801	11.0309	0.9594	1.0360	0.3688

PBW Calc	SO4	NO3r	NH4r
	3.0815	1.2673	1.3792
	3.9021	0.0000	1.3964
	5.3245	0.0000	1.6298
	2.4327	0.2147	0.9594

S Term	N Term	A Term	Part 1	Part 2	Part 3	Sum	Total
0.5380	0.2212	0.2408	-20556.1609	-126.9622	20683.2901	0.1671	0.9569
0.7365	0.0000	0.2635	-23027.7738	-213.2158	23241.3091	0.3195	1.6930
0.7656	0.0000	0.2344	-19730.9031	-235.0839	19966.2763	0.2894	2.0123
0.6745	0.0595	0.2660	-23334.2825	-185.8331	23520.4028	0.2872	1.0360

Clairton 24-Hour Test – Future Projected High Days and Weighted Design Value

Future Projected FRM High Days

High Days	2000	2001	2002	2003	2004
1Q		18.4	16.3	19.4	13.5
2Q		24.7	27.9	32.5	14.7
3Q		19.8	21.6	20.1	21.6
4Q		20.1	22.3	13.5	16.9

	2000	2001	2002	2003	2004
98th-Percentile		**24.7**	**27.9**	**32.5**	**21.6**

3-Year Design Values

3-Year Period	Avg
2000-2002	26.3
2001-2003	28.4
2002-2004	27.3

Future Projected Weighted Average

5-Year Period	Avg
2000-2004	**27**

J-3: Impact Tables

Impacts by source or source group for the modeled receptor grids are shown in the tables below. These tables are given to display annual and 24-hour maximum impacts from individual sources/groups for comparative purposes. They do not reflect the exact quarterly and daily averaging that were used in the attainment tests given above. Impacts from the equivalent and nearby grids were combined on a concurrent basis for use in the attainment tests.

Note: Annual average impacts from different source groups can be summed cumulatively. 24-hour impacts cannot be summed in the same way due to the possibility that maximums for individual source groups can occur on different days.

Near-Field (20 km Domain) Source Group Impacts, CMAQ-Equivalent Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
20 km Background Sources	0.042	0.047	0.4967	0.5507
Allegheny Energy Mitchell Plant*	0.031	0.078	0.3355	0.7945
Clairton Slag	0.006	0.007	0.1118	0.1236
CP Industries	0.007	0.010	0.0964	0.1295
Dura-Bond Industries	0.040	0.062	0.6698	1.0975
Eastman Chemical/Sanyo	0.017	0.022	0.2620	0.3448
GM (Motors Liquidation Company)	0.006	0.006	0.0782	0.0785
Guardian	0.010	0.013	0.1319	0.1712
Kelly Run Sanitation	0.010	0.011	0.1442	0.1565
Kinder Morgan/Marsh Asphalt	0.020	0.024	0.3095	0.3654
Koppers	0.031	0.042	0.4990	0.6652
Liberty Pultrusion	<0.001	<0.001	0.0033	0.0041
Mid-Continent Coal & Coke Co.	0.026	0.028	0.4014	0.4293
Nash (Gardner Denver Nash)	<0.001	<0.001	0.0030	0.0035
PreCoat	0.002	0.002	0.0219	0.0249
RRI Energy Elrama Plant	0.037	0.066	0.3814	0.8059
UPMC McKeesport	0.001	0.001	0.0165	0.0202
US Steel Clairton Batteries	0.200	0.203	2.9571	2.9988
US Steel Clairton Quenches	0.051	0.052	0.6344	0.6433
US Steel Clairton Combustion Stacks	0.038	0.039	0.4996	0.5066
US Steel Clairton PEC Baghouses	0.051	0.051	0.6193	0.6268
US Steel Clairton Boilers	0.022	0.016	0.3005	0.2120
US Steel Clairton Fugitives (Ambient)	0.165	0.174	2.4362	2.5828
US Steel Edgar Thomson	0.366	0.273	5.8904	4.3659
US Steel Irvin	0.109	0.104	1.5343	1.4875

* Allegheny Energy Mitchell Plant lies just outside the 20 km domain and was modeled as part of the 150 km domain. It is included here for comparison to other nearby sources.

Distant (150 km Domain) Source Group Impacts, CMAQ-Equivalent Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
Allegheny Valley (Allegheny Co.)	0.028	0.031	0.375	0.402
Armstrong County	0.002	0.002	0.025	0.028
Beaver County	0.009	0.010	0.154	0.175
Butler County	0.008	0.008	0.175	0.178
EGUs	0.070	0.212	0.590	0.961
Fayette County	0.006	0.007	0.097	0.122
Greene County	0.013	0.013	0.090	0.093
Lawrence County	0.012	0.016	0.235	0.276
Ohio Background	0.016	0.016	0.194	0.189
Ohio Valley (Allegheny Co.)	0.013	0.015	0.178	0.208
Urban Pittsburgh (Allegheny Co.)	0.027	0.029	0.361	0.427
Washington County	0.036	0.036	0.333	0.374
Westmoreland County	0.034	0.035	0.286	0.316
Western Suburban (Allegheny Co.)	0.009	0.010	0.095	0.111
West Virginia Panhandle	0.247	0.212	3.037	2.480

US Steel Clairton Works Source Group Impacts - Liberty Nearby Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
Batteries 1-3	0.089	0.089	1.728	1.728
Batteries 7-9	0.089	---	1.601	---
Batteries 13-15	0.099	0.099	1.637	1.637
Batteries 19-20	0.087	0.085	1.610	1.557
B Battery	0.007	0.006	0.356	0.298
C Battery	---	0.021	---	0.845
Quench 1	1.410	1.207	19.550	16.764
Quench 3	1.400	---	20.010	---
Quench 5	1.450	0.111	18.875	1.679
Quench 7	0.582	0.110	6.894	1.543
Quench B	0.848	0.848	12.897	12.897
Quench C	---	0.076	---	1.513
Combustion Stack 1	0.016	0.016	0.241	0.241
Combustion Stack 2	0.024	0.024	0.369	0.369
Combustion Stack 3	0.017	0.017	0.231	0.231
Combustion Stack 7	0.013	---	0.187	---
Combustion Stack 8	0.012	---	0.182	---
Combustion Stack 9	0.013	---	0.169	---
Combustion Stack 13	0.015	0.015	0.155	0.155
Combustion Stack 14	0.015	0.015	0.155	0.155
Combustion Stack 15	0.017	0.017	0.157	0.157
Combustion Stack 19	0.020	0.011	0.195	0.105
Combustion Stack 20	0.018	0.018	0.175	0.175
Combustion Stack B	0.013	0.007	0.179	0.096
Combustion Stack C	---	0.010	---	0.108
PEC Baghouse 1-3	0.022	0.022	0.281	0.281
PEC Baghouse 7-9	0.024	---	0.309	---
PEC Baghouse 13-15	0.047	0.047	0.485	0.485
PEC Baghouse 19-20	0.053	0.053	0.574	0.574
PEC Baghouse B	0.159	0.099	1.708	1.061
PEC Baghouse C	---	0.029	---	0.399
Boilers	0.199	0.199	2.001	2.001
Material Handling	0.149	0.126	1.223	1.090
Industrial Roads	0.012	0.012	0.140	0.140
Mobile Sources	0.325	0.184	3.632	2.056
Coke/Coal Transfer	0.047	0.060	0.435	0.560
Miscellaneous	0.015	0.015	0.180	0.180

US Steel Clairton Works Source Group Impacts - Clairton Nearby Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
Batteries 1-3	0.048	0.048	0.941	0.941
Batteries 7-9	0.043	---	0.877	---
Batteries 13-15	0.043	0.043	1.023	1.023
Batteries 19-20	0.046	0.044	1.228	1.188
B Battery	0.004	0.004	0.221	0.185
C Battery	---	0.013	---	0.624
Quench 1	0.744	0.638	17.261	14.801
Quench 3	0.714	---	16.359	---
Quench 5	0.439	0.015	9.424	0.606
Quench 7	0.139	0.014	4.031	0.540
Quench B	0.115	0.115	4.188	4.188
Quench C	---	0.014	---	0.487
Combustion Stack 1	0.006	0.006	0.151	0.151
Combustion Stack 2	0.009	0.009	0.222	0.222
Combustion Stack 3	0.005	0.005	0.129	0.129
Combustion Stack 7	0.005	---	0.125	---
Combustion Stack 8	0.005	---	0.119	---
Combustion Stack 9	0.004	---	0.090	---
Combustion Stack 13	0.002	0.002	0.065	0.065
Combustion Stack 14	0.002	0.002	0.065	0.065
Combustion Stack 15	0.002	0.002	0.058	0.058
Combustion Stack 19	0.003	0.002	0.093	0.050
Combustion Stack 20	0.003	0.003	0.082	0.082
Combustion Stack B	0.004	0.002	0.137	0.073
Combustion Stack C	---	0.003	---	0.071
PEC Baghouse 1-3	0.008	0.008	0.207	0.207
PEC Baghouse 7-9	0.008	---	0.215	---
PEC Baghouse 13-15	0.017	0.017	0.456	0.456
PEC Baghouse 19-20	0.017	0.017	0.446	0.446
PEC Baghouse B	0.032	0.020	0.713	0.443
PEC Baghouse C	---	0.010	---	0.219
Boilers	0.017	0.017	0.630	0.630
Material Handling	0.021	0.015	0.692	0.591
Industrial Roads	0.007	0.007	0.260	0.260
Mobile Sources	0.065	0.037	2.690	1.523
Coke/Coal Transfer	0.069	0.080	1.361	1.705
Miscellaneous	0.004	0.004	0.075	0.075

Other Near-Field Source Group Impacts, Liberty Nearby Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
20 km Background Sources	0.020	0.022	0.239	0.266
AKJ Industries	0.001	0.001	0.008	0.008
Allegheny Energy Mitchell Plant*	0.045	0.042	0.364	0.473
Clairton Slag	0.016	0.016	0.247	0.255
CP Industries	0.016	0.022	0.179	0.240
Dura-Bond Industries	0.048	0.073	0.935	1.540
Eastman Chemical/Sanyo	0.024	0.032	0.244	0.322
ELG Metals	0.010	0.010	0.217	0.217
GM (Motors Liquidation Company)	0.004	0.004	0.044	0.045
Guardian	0.014	0.019	0.204	0.266
Jefferson Regional Med. Ctr.	<0.001	<0.001	0.009	0.009
Kelly Run Sanitation	0.011	0.012	0.247	0.267
Kinder Morgan/Marsh Asphalt	0.011	0.001	0.170	0.023
Koppers	0.132	0.174	1.133	1.504
Liberty Pultrusion	0.000	0.000	0.004	0.005
Mid-Continent Coal & Coke Co.	0.040	0.043	0.365	0.389
Mon Valley Transportation Ctr.	0.219	0.219	1.347	1.347
Nash (Gardner Denver Nash)	0.027	0.027	0.270	0.270
Penn Coil	0.001	0.001	0.006	0.006
PreCoat	0.002	0.002	0.032	0.037
RRI Energy Elrama Plant	0.137	0.111	2.096	1.464
UPMC McKeesport	0.001	0.001	0.018	0.022
US Steel Edgar Thomson	0.209	0.201	4.108	3.978
US Steel Irvin	0.104	0.099	1.937	1.846

* Allegheny Energy Mitchell Plant lies just outside the 20 km domain and was modeled as part of the 150 km domain. It is included here for comparison to other nearby sources.

Other Near-Field Source Group Impacts, Clairton Nearby Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
20 km Background Sources	0.010	0.011	0.164	0.180
AKJ Industries	<0.001	<0.001	0.003	0.003
Allegheny Energy Mitchell Plant*	0.074	0.058	0.595	0.451
Clairton Slag	0.061	0.063	0.713	0.736
CP Industries	0.002	0.003	0.046	0.061
Dura-Bond Industries	0.008	0.013	0.133	0.220
Eastman Chemical/Sanyo	0.073	0.096	0.773	1.013
ELG Metals	0.001	0.001	0.017	0.017
GM (Motors Liquidation Company)	0.001	0.001	0.022	0.022
Guardian	0.029	0.038	0.277	0.360
Jefferson Regional Med. Ctr.	<0.001	<0.001	0.008	0.008
Kelly Run Sanitation	0.018	0.019	0.212	0.229
Kinder Morgan/Marsh Asphalt	0.004	0.001	0.087	0.010
Koppers	0.029	0.039	0.702	0.934
Liberty Pultrusion	<0.001	<0.001	0.002	0.002
Mid-Continent Coal & Coke Co.	0.042	0.045	1.235	1.319
Mon Valley Transportation Ctr.	0.014	0.014	0.258	0.258
Nash (Gardner Denver Nash)	0.083	0.083	0.651	0.651
Penn Coil	<0.001	<0.001	0.004	0.004
PreCoat	0.001	0.001	0.008	0.008
RRI Energy Elrama Plant	0.233	0.178	2.062	1.540
UPMC McKeesport	<0.001	<0.001	0.005	0.006
US Steel Edgar Thomson	0.135	0.130	3.310	3.164
US Steel Irvin	0.039	0.037	0.690	0.658

* Allegheny Energy Mitchell Plant lies just outside the 20 km domain and was modeled as part of the 150 km domain. It is included here for comparison to other nearby sources.

Distant Source Group Impacts, Liberty Nearby Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
Allegheny Valley (Allegheny Co.)	0.025	0.026	0.358	0.373
Armstrong County	0.002	0.002	0.024	0.028
Beaver County	0.008	0.009	0.147	0.165
Butler County	0.007	0.008	0.172	0.176
EGUs (2002 Added Condensibles)*	0.464	---	3.044	---
EGUs	0.073	0.382	0.597	1.268
Fayette County	0.007	0.008	0.104	0.130
Greene County	0.013	0.013	0.092	0.097
Lawrence County	0.011	0.015	0.225	0.262
Ohio Background	0.015	0.015	0.209	0.203
Ohio Valley (Allegheny Co.)	0.011	0.013	0.129	0.155
Urban Pittsburgh (Allegheny Co.)	0.020	0.022	0.312	0.386
Washington County	0.046	0.046	0.461	0.575
Western Suburban (Allegheny Co.)	0.007	0.005	0.083	0.055
Westmoreland County	0.041	0.039	0.282	0.335
West Virginia Panhandle	0.232	0.200	2.191	1.788

* The added baseline (2002) EGU condensibles were modeled as a separate source to examine the impacts from these emissions. Any corrections made to the future case EGUs are included as part of the EGUs source group.

Distant Source Group Impacts, Clairton Nearby Receptor Averages

Source Group	Baseline Annual Impacts (µg/m³)	Future Annual Impacts (µg/m³)	Baseline 24-Hour Maximum Impacts (µg/m³)	Future 24-Hour Maximum Impacts (µg/m³)
Allegheny Valley (Allegheny Co.)	0.021	0.022	0.325	0.340
Armstrong County	0.001	0.001	0.023	0.026
Beaver County	0.008	0.009	0.142	0.156
Butler County	0.006	0.007	0.154	0.163
EGUs (2002 Added Condensibles)*	0.425	---	3.220	---
EGUs	0.077	0.359	1.192	1.262
Fayette County	0.007	0.008	0.106	0.134
Greene County	0.015	0.014	0.106	0.100
Lawrence County	0.011	0.014	0.208	0.241
Ohio Background	0.015	0.014	0.203	0.198
Ohio Valley (Allegheny Co.)	0.009	0.011	0.138	0.160
Urban Pittsburgh (Allegheny Co.)	0.015	0.017	0.263	0.299
Washington County	0.055	0.051	0.524	0.463
Western Suburban (Allegheny Co.)	0.007	0.005	0.111	0.078
Westmoreland County	0.046	0.039	0.310	0.275
West Virginia Panhandle	0.233	0.201	2.468	2.022

* The added baseline (2002) EGU condensibles were modeled as a separate source to examine the impacts from these emissions. Any corrections made to the future case EGUs are included as part of the EGUs source group.

$PM_{2.5}$ SIP

Appendix K

CMAQ Modeling Documentation

K-1: CMAQ Model Performance and Assessment

K-2: Meterological Modeling using MM5

K-3: Processing of 2002 Anthropogenic Emissions

K-4: $PM_{2.5}$ Modeling using SMOKE/CMAQ

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K-1: CMAQ Model Performance and Assessment

TSD-3

CMAQ Model Performance and Assessment for Base Year 2002:$PM_{2.5}$ Mass and Speciation

Bureau of Air Quality Analysis and Research

Division of Air Resources

New York State Department of Environmental Conservation

Albany, NY 12233

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Introduction

One of the required tasks for attainment demonstration for the $PM_{2.5}$ National Ambient Air Quality Standard (NAAQS) is the evaluation and assessment of the air quality modeling system that has been utilized to predict future air quality over the region of interest. As part of the attainment demonstration, the MM5/SMOKE/CMAQ modeling system was applied to simulate concentration fields of $PM_{2.5}$ mass and major species for the base year 2002 emissions with the corresponding meteorological information. The modeling databases for meteorology using MM5 (TSD-1, 2007), the emissions using SMOKE (TSD-2a, TSD-2b, 2006), and application of the SMOKE/CMAQ system (TSD-2c, 2007) provide the simulated pollutant fields which are compared to measurements to establish the credibility of the simulation. In the following sections a comparison between the measured and predicted concentrations is performed and results are presented, demonstrating on an overall basis the utility of the modeling system in this application.

The results presented here serve as an illustration of some of the model evaluation and assessment, as outlined in the EPA modeling guidance document (US EPA, 2007), performed on the Base Year 2002 CMAQ simulation. Additional information can be made available by request from the New York State Department of Environmental Conservation.

Summary of measured data

The ambient air quality data for annual 2002 simulation were obtained from the following sources:

- EPA Air Quality System (AQS)
- EPA fine particulate Speciation Trends Network (STN)
- Interagency Monitoring of PROtected Visual Environments (IMPROVE)
- Pinnacle State Park in Addison, NY operated by Atmospheric Science Research Center, University at Albany, Albany, NY
- Harvard Forest, Petersham, MA operated by Harvard University, Boston, MA
- Atmospheric Investigation, Regional Modeling, Analysis and Prediction (AIRMAP) operated by University of New Hampshire, Durham, NH
- NorthEast Ozone & Fine Particle Study (NE-OPS), led by Penn State University and other research groups in Philadelphia, PA

Measured data from sites within the Ozone Transport Region (OTR) plus the rest of Virginia were included here, which hereafter will be referred to as the “OTR+” region. The model-based data were obtained at the grid-cell corresponding to the monitor location and no interpolation was performed. The analysis examines the model response to the OTR+ region with emphasis on the New York City non-attainment area (NYC NAA), which consists of two counties in Connecticut (Fairfield and New Haven) and 10 counties each in New Jersey (Bergen, Essex, Hudson, Mercer, Middlesex, Monmouth, Morris, Passaic, Somerset, and Union) and New York (Bronx, Kings, Nassau, New York, Orange, Queens, Richmond, Rockland, Suffolk, and Westchester).

Fine particulate ($PM_{2.5}$) mass

The 24-hour average Federal Reference Method (FRM) $PM_{2.5}$ mass data collected routinely at SLAMS/NAMS sites across the OTR+ region were extracted from AQS for 225 sites (see http://www.epa.gov/ttn/airs/airsweb/aqsweb/aqswebhome.html). Although 39 of these locations had duplicate monitors in 2002, only data from the primary monitors are presented here. Fifty six of these FRM monitors – 45 unique locations and 11 collocated monitors – are located within the NYC NAA. Hourly $PM_{2.5}$ mass data from 62 sites across the OTR+ region were also included in this analysis. Twenty-eight of these hourly sites are located within the NYC NAA. Hourly $PM_{2.5}$ mass were also obtained from the AIRMAP Program (http://airmap.unh.edu) at Thompson Farm, NH; Pinnacle State Park (http://www.asrc.cestm.albany.edu); and the NE-OPS site in Philadelphia, PA (http://lidar1.ee.psu.edu). In addition to examining the daily averages based on the $PM_{2.5}$ data, composite and site-specific diurnal variations are also presented here. Figures 1 and 2 show the locations of the FRM and hourly $PM_{2.5}$ monitors across the OTR+ region.

Fine particulate speciation

The 24-hour average $PM_{2.5}$ and fine particulate speciation data, consisting of sulfate (SO_4), nitrate (NO_3), elemental carbon (EC), organic carbon/organic mass (OC/OM), and soil/crustal matter from Class I areas across the OTR + region, collected every third day, were obtained from the IMPROVE web site (http://vista.cira.colostate.edu/IMPROVE/Default.htm) for 21 IMPROVE sites (which includes Dolly Sods, WV, even though this site is not in the OTR+ region. In addition to these parameters, the EPA STN (http://www.epa.gov/ttn/amtic/speciepg.html) also reports ammonium (NH_4) to AQS; data from this network are collected every third or sixth day. The STN data from 50 sites in the OTR+ region were used in this analysis. Organic mass is assumed to equal 1.8×OC, and soil/crustal matter is assumed to consist of oxides of Al, Ca, Fe, Si, and Ti. The STN OC data were first corrected by subtracting a monitor-specific constant blank concentration, and these STN blank data are available from http://www.epa.gov/airtrends/aqtrnd03/pdfs/2_chemspecofpm25.pdf. The IMPROVE OC blanks are assumed to equal zero. Nine of the STN sites are located within the NYC NAA. Figure 3 shows the locations of the STN and IMPROVE locations across the OTR+ region. In addition to these daily average speciation data, a preliminary examination of diurnal variations using continuous hourly SO_4 and NO_3 data from the New York State Department of Environmental Conservation (http://www.dec.ny.gov) site IS52 (Bronx) is also presented here.

Evaluation of CMAQ

The following sections provide information on model performance for the above referenced pollutants over the OTR+ portion of the 12-km modeling domain. The statistical formulations that have been computed for each species are as follows: P_i and O_i are the individual daily average predicted and observed concentrations, respectively; $\overline{P}$

and $\overline{O}$ are the average concentrations, respectively, and N is the sample size. These statistical measures are listed in the EPA modeling guidance document (USEPA, 2007).

Each statistic is computed two ways. First, each statistic is computed at each site over the entire year and each quarter; second, each statistic is computed on each day using all available sites. Note that the July 6-9, 2002 period was excluded from this analysis since the observed $PM_{2.5}$ and OM data at many sites were greatly affected by Canadian forest fires. Additionally, those days on which the observed and predicted averages differed by more than a factor of 25 were not included in this analysis, since they can greatly affect some of the normalized metrics.

Observed average, in μg m^{-3}:

$$\overline{O} = \frac{1}{N}\sum O_i$$

Predicted average, in μg m^{-3} (only use P_i when O_i is valid):

$$\overline{P} = \frac{1}{N}\sum P_i$$

Correlation coefficient, R^2:

$$R^2 = \frac{\left[\sum (P_i - \overline{P})(O_i - \overline{O})\right]^2}{\sum (P_i - \overline{P})^2 \sum (O_i - \overline{O})^2}$$

Normalized mean error (NME), in %:

$$NME = \frac{\sum |P_i - O_i|}{\sum O_i} \times 100\%$$

Root mean square error (RMSE), in μg m^{-3}:

$$RMSE = \left[\frac{1}{N}\sum (P_i - O_i)^2\right]^{1/2}$$

Mean fractional error (MFE), in %:

$$MFE = \frac{2}{N}\sum \left|\frac{P_i - O_i}{P_i + O_i}\right| \times 100\%$$

Mean absolute gross error (MAGE), in μg m^{-3}:

$$MAGE = \frac{1}{N}\sum \left|P_i - O_i\right|$$

Mean normalized gross error (MNGE), in %:

$$MNGE = \frac{1}{N}\sum \frac{|P_i - O_i|}{O_i} \times 100\%$$

Mean bias (MB), in μg m^{-3}:

$$MB = \frac{1}{N}\sum (P_i - O_i)$$

Mean normalized bias (MNB), in %:

$$MNB = \frac{1}{N}\sum \frac{(P_i - O_i)}{O_i} \times 100\%$$

Mean fractionalized bias (MFB), in %:

$$MFB = \frac{2}{N}\sum \left[\frac{P_i - O_i}{P_i + O_i}\right] \times 100\%$$

Normalized mean bias (NMB), in %:

$$NMB = \frac{\sum (P_i - O_i)}{\sum O_i} \times 100\%$$

<u>Daily $PM_{2.5}$ mass</u>

Model performance statistics, based on daily average $PM_{2.5}$ levels, are presented in this section across the OTR+ region. Figure 4 displays the time series of observed and predicted $PM_{2.5}$ mass averaged across all FRM monitors. As stated earlier the July 6-9 period was not included in this analysis since many monitors across the region were substantially impacted by Canadian wildfires. Overall, the mean bias (predicted minus observed) was about 3.8 μg m^{-3}, ranging from -17.7 μg m^{-3} to +24.0 μg m^{-3}. The highest overprediction tended to occur during the colder months, quarters 1 and 4, whereas the days on which the model tended to underpredict $PM_{2.5}$ were more likely to occur during the summer months.

Figures 5 and 6 display the mean fractional error (MFE) and mean fractionalized bias (MFB), respectively, at each FRM monitor across the OTR+ region over the entire year. Boylan and Russell (2006) propose that these two metrics are the most useful for model evaluation since they set upper bounds on error/bias, are not likely dominated by a few “outlier” points, and do not assume that observations are absolute truth. Boylan and Russell (2006) further point out that MFE<75% and MFB<60% define a level of accuracy close to the best a model can be expected to achieve in terms of acceptable model performance. The analysis shows that at 221 of the 225 FRM sites the MFE was below 75%, while at 215 sites the MFB was below 60% in the OTR + region. However, such is not the case for the NYC NAA, a region with high emissions density and complex meteorology. While the MFE and MFB criteria are met at each of the 10 primary FRM monitors in CT and 14 primary FRM monitors in NJ, the MFE criteria was met at 17 of

the 21 primary FRM monitors in NY and the MFB criteria was only met at 12 of the primary NY FRM monitors. Hence, on an overall basis the model predicts $PM_{2.5}$ mass reasonably well, although not consistently at all locations and all days in the NYC NAA.

Tables 1 and 2 list the median and range in MFE and MFB for the OTR+ region for the entire year excluding July 6-9 that are associated with Canadian fires. The statistical estimates are based on comparing predicted with measurements from FRM, continuous hourly, STN, and IMPROVE locations. In Table 1, the MFE and MFB values are computed at each site, while in Table 2 the MFE and MFB are computed on each day using the data from all available sites. The median MFE values are about 40-50%, ranging from <20% to about 100%. The median MFB values are about 30%, ranging within ±100% (substantial underprediction to large overprediction).

Figure 7 displays the quarterly average $PM_{2.5}$ mass at all OTR+ monitors and also at those monitors within the NYC NAA. Note that, not surprisingly, the observed average $PM_{2.5}$ mass tends to be higher in the NYC NAA than across the entire OTR+. CMAQ tends to overpredict $PM_{2.5}$ at these locations, especially during the colder months. On the other hand, CMAQ performs well during the July-September period on a composite average basis.

<u>$PM_{2.5}$ speciation</u>

Composite daily average predicted and observed concentrations of major $PM_{2.5}$ species – SO_4, NO_3, NH_4, EC, OM (defined here operationally as 1.8×blank-corrected organic carbon), and crustal mass (sum of oxides of Al, Ca, Fe, Si, and Ti) – across the OTR+ region were compared in this analysis. The time series of these species at the 50 STN and 21 IMPROVE locations are shown in Figures 8-18. The data displayed are for every third day, corresponding to the nominal sampling schedule. These two speciation networks collect SO_4, NO_3, EC, OM, and crustal mass, while only the STN reports NH_4 at a number of locations. The NH_4 data from the IMPROVE network are not included here, since in the OTR+ region, only the IMPROVE sites of Dolly Sods, WV; James River Face Wilderness, VA; and Shenandoah National Park, VA reported NH_4 data in 2002. As before, the July 6-9 period was excluded.

The model exhibits good agreement for SO_4 at both the urban STN (Figure 8) and rural IMPROVE (Figure 9) sites, both in terms of absolute concentrations and the seasonal variation. During the summer months, photochemical production of SO_4 is higher than at other times of the year, which the model seems to capture. Figures 10 and 11 suggest that the model qualitatively predicts the seasonal variation of NO_3 fairly well, although the observed and modeled concentrations during the cold season, quarters 1 and 4 (when volatilization of NO_3 is lowest), differ by several $\mu g\ m^{-3}$. The seasonal variation in NH_4 (Figure 12) is more complicated, but appears to be consistent with SO_4 and NO_3. During the summer, most NH_4 is tied to SO_4 (which the model tends to predict well), whereas during the winter a substantial fraction of NH_4 is tied to NO_3 (which the model appears to predict poorly). Both EC (Figures 13 and 14) and crustal mass (Figure 17 and 18) are predominantly primary emissions, and the model tends to overpredict both

species – particularly at urban locations and during the colder months. Note, too, the effects of emissions from the July 4th fireworks on crustal mass are obvious in the observed data at both the STN and IMPROVE sites, but are not included in the model emissions inventory. The measured crustal mass on this day exceeds 4 $\mu g\ m^{-3}$, while it is generally closer to ~0.5-1.0 $\mu g\ m^{-3}$only.

The model appears to also have difficulty predicting the seasonal variation of OM (Figures 15 and 16). During the summer months a substantial fraction of OM is secondary in nature, while during the colder months much of the OM may be in the form of primary emissions. To illustrate this, Figure 19 displays the quarterly variation in observed OM, as well as the CMAQ predictions of the three components of modeled OM – anthropogenic primary organic aerosol (POA), anthropogenic secondary organic aerosol (SOA), and biogenic SOA. Note that CMAQ predicts that >80% of the modeled OM is anthropogenic POA (with a wintertime maximum), and only predicts slight increases in the SOA fraction during the summer. On the other hand, the observed OM has a summertime maximum when secondary formation is highest.

Table 3 lists the median and range in MFE and MFB calculated at each site over the season used in this analysis. For SO_4, which contributes ~30% to the total $PM_{2.5}$ mass, the MFE at both STN and IMPROVE locations is roughly 40%, and there is a general tendency to underpredict SO_4 (MFB < 0). At all 71 locations (STN and IMPROVE), the MFE and MFB criteria suggested by Boylan and Russell (2006) are met. This is not surprising, since SO_2 emissions are generally well-characterized and ambient SO_4 levels tend to be somewhat spatially uniform compared to other $PM_{2.5}$ species. The range in MFE and MFB tends to be lower for SO_4 compared to the other species as well. The urban-rural differences for the other species are much more evident than for SO_4. Note that the degree of overprediction of NO_3, NH_4, and EC is considerably higher at the STN locations compared to IMPROVE. CMAQ tends to underpredict OM as well, although some of this discrepancy may be attributed to the fact that OM is operationally defined and is highly dependent on the blank correction and multiplier to account for other components of OM not directly measured. Similarly, the predicted crustal mass tends to be much higher than that observed. This, too, is due in part to relating the CMAQ predictions of unspeciated, primary particulates to the measured crustal mass which is operationally defined as the sum of major metal oxides. For these and other reasons, Boylan and Russell (2006) state that for the non-SO_4 or less abundant $PM_{2.5}$ species, the MFE and MFB guidelines should be relaxed.

Diurnal variations $PM_{2.5}$, SO_4, and NO_3

The hourly $PM_{2.5}$ mass and speciation data allow for examination of the model predictions with high temporal resolution. Figure 20 displays the composite diurnal variation of $PM_{2.5}$ mass averaged across the 28 locations in the NYC NAA, over the entire year (with the exception of July 6-9). For comparison, the average diurnal profiles during quarters 1 and 3 are shown in Figures 21 and 22, respectively. Quarter 1 exhibits the largest discrepancy between observed and predicted $PM_{2.5}$, while quarter 3 exhibits the smallest discrepancy between observed and predicted $PM_{2.5}$ mass. Regardless of time

of year, CMAQ predicts a pronounced double peak, with maxima during the morning and late afternoon/early evening time periods, likely corresponding to average commuting patterns. During quarter 1, there is a double peak in the observed diurnal profile, albeit smaller in amplitude. The double peak is not nearly as evident during quarter 3, when during the middle of the day the observed $PM_{2.5}$ levels are actually slightly higher than the predicted levels.

There were only a handful of locations in 2002 where hourly SO_4 and/or NO_3 were measured. One such location was IS52 in Bronx, NY. To illustrate how the model performed over the course of a day at this single location, Figures 23 and 24 display the average diurnal variation of SO_4 and NO_3, respectively. On an average basis, there is little variation in SO_4 at this site over the day (see Figure 23), and the observed and predicted SO_4 levels generally are within 10-20% of each other. The observed SO_4 levels on average do exhibit a small peak during the summer months, but the lack of a strong diurnal indicates the regional nature of this pollutant. In contrast to SO_4, there is a more pronounced diurnal variation in NO_3 at this location (see Figure 24), with a morning peak related to NO_x emissions and a still shallow boundary layer, and an afternoon minimum related to a deep boundary layer, deposition, and the thermal instability of ammonium nitrate (NH_4NO_3). Similar to $PM_{2.5}$ mass, the model overprediction tends to be highest during the nighttime and early morning hours.

Summary

Various model evaluation statistics are presented here for $PM_{2.5}$ mass and major species over the entire 2002 CMAQ simulation. In general, the CMAQ results were best for daily average $PM_{2.5}$ and SO_4 mass. By comparison, CMAQ does not appear to be able to reproduce the day-to-day or seasonal variation in other species like NO_3, OM, EC, or crustal mass. The model appears to meet model performance criteria for $PM_{2.5}$ reasonably well over the OTR+ region as a whole, but not as well if one focuses on an emissions-dense, complex urban setting such as the NYC NAA.

References

TSD-1 (2006) Meteorological Modeling of 2002 using Penn State/NCAR 5th Generation Mesoscale Model (MM5)

TSD-2a (2006) Processing of 2002 Biogenic Emissions for OTC / MANE-VU Regional and Urban Modeling.

TSD-2b (2006) Processing of 2002 Anthropogenic Emissions: OTC Regional and Urban 12km Base Year Simulation.

TSD-2c (2006) $PM_{2.5}$ modeling using the SMOKE/CMAQ system over the Ozone Transport Region (OTR)

Boylan, J. W., and Russell, A. G., 2006. PM and light extinction model performance metrics, goals, and criteria for three-dimensional air quality models. Atmospheric Environment 40, 4946-4959.

United States Environmental Protection Agency (USEPA), 2007. Guidance on the use of models and other analyses for demonstrating attainment of air quality goals for ozone, $PM_{2.5}$, and regional haze. EPA-454/B-07-002, Research Triangle Park, NC.

Table 1. The median and range in mean fractional error (MFE) and mean fractionalized bias (MFB) values for daily $PM_{2.5}$ mass at FRM, hourly, and speciation sites across the OTR+ region. These statistics were computed at each site over the entire year.

	Median MFE (minimum to maximum MFE)	**Median MFB (minimum to maximum MFB)**
FRM (225 sites)	42.9% (28.1 to 109%)	22.6% (-72 to 109%)
Hourly (62 sites)	49.3% (17.4 to 88%)	35.3% (-41.9 to 134%)
STN (50 sites)	40.1% (28.1 to 83%)	12.3% (-27.3 to 81%)
IMPROVE (21 sites)	53.1% (35.3 to 73%)	30.1% (-12.0 to 64%)

Table 2. Same as Table 1, except that the statistics were computed on each day using all available sites.

	Median MFE (minimum to maximum MFE)	**Median MFB (minimum to maximum MFB)**
FRM (225 sites)	42.5% (17.6 to 87%)	26.4% (-83 to 88%)
Hourly (62 sites)	50.0% (18.6 to 99%)	35.9% (-68 to 99%)
STN (50 sites)	42.1% (17.9 to 84%)	27.0% (-80 to 75%)
IMPROVE (21 sites)	48.4% (22.9 to 102%)	30.3% (-101 to 101%)

Table 3. Same as Table 1, except for daily average species concentrations at the 50 STN and 21 IMPROVE sites.

	Median MFE (minimum to maximum MFE)	**Median MFB (minimum to maximum MFB)**
STN SO_4	39.8% (27.2 to 60%)	-11.1% (-40.9 to 52%)
IMPROVE SO_4	42.4% (34.5 to 60%)	-22.6% (-54 to 2.2%)
STN NO_3	80% (57 to 123%)	25.3% (-76 to 118%)
IMPROVE NO_3	104% (86 to 125%)	58% (-2.4 to 122%)
STN NH_4	43.0% (27.8 to 83%)	27.8% (-13.2 to 81%)
STN EC	48.8% (29.4 to 106%)	29.5% (-43.2 to 102%)
IMPROVE EC	57% (41.3 to 87%)	7.2% (-64 to 85%)
STN OM	62% (33.7 to 106%)	-34.9% (-94 to 64%)
IMPROVE OM	54% (40.1 to 83%)	-4.0% (-82 to 43.8%)
STN crustal	120% (72 to 159%)	116% (56 to 159%)
IMPROVE crustal	101% (65 to 126%)	97% (36.0 to 124%)

Figure 1. Locations of the FRM monitors across the OTR+ (open squares) and NYC NAA (filled squares). Forty five of the 225 monitors are within the NYC NAA.

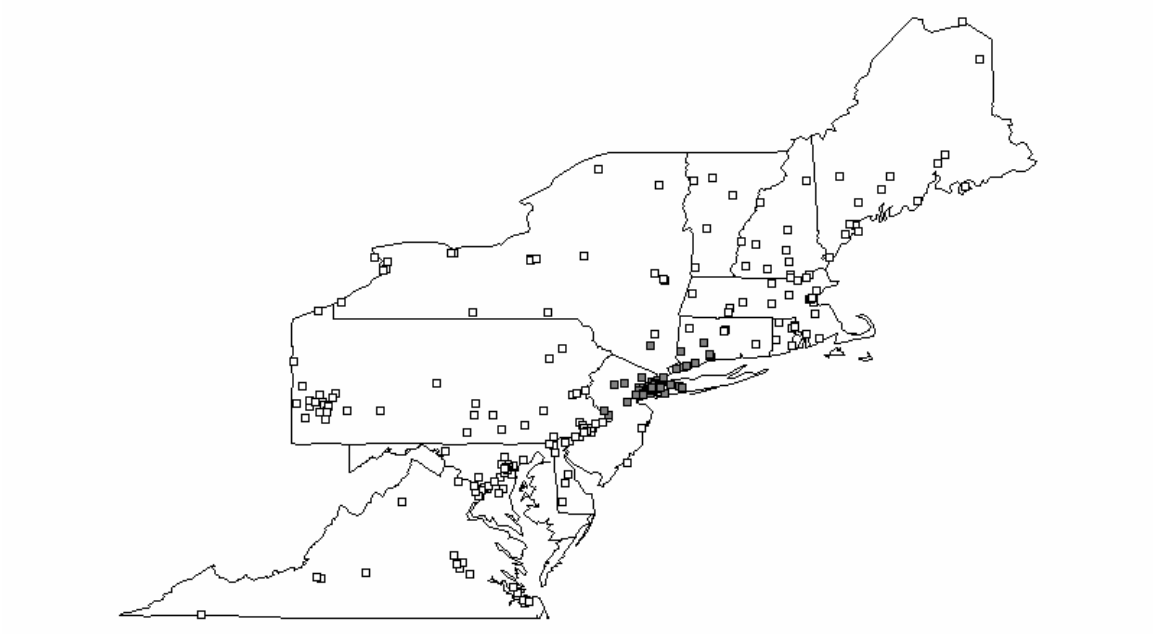


Figure 2. Locations of the hourly TEOM monitors across the OTR+ (open squares) and NYC NAA (filled squares). Twenty-eight of the 62 monitors are within the NYC NAA.

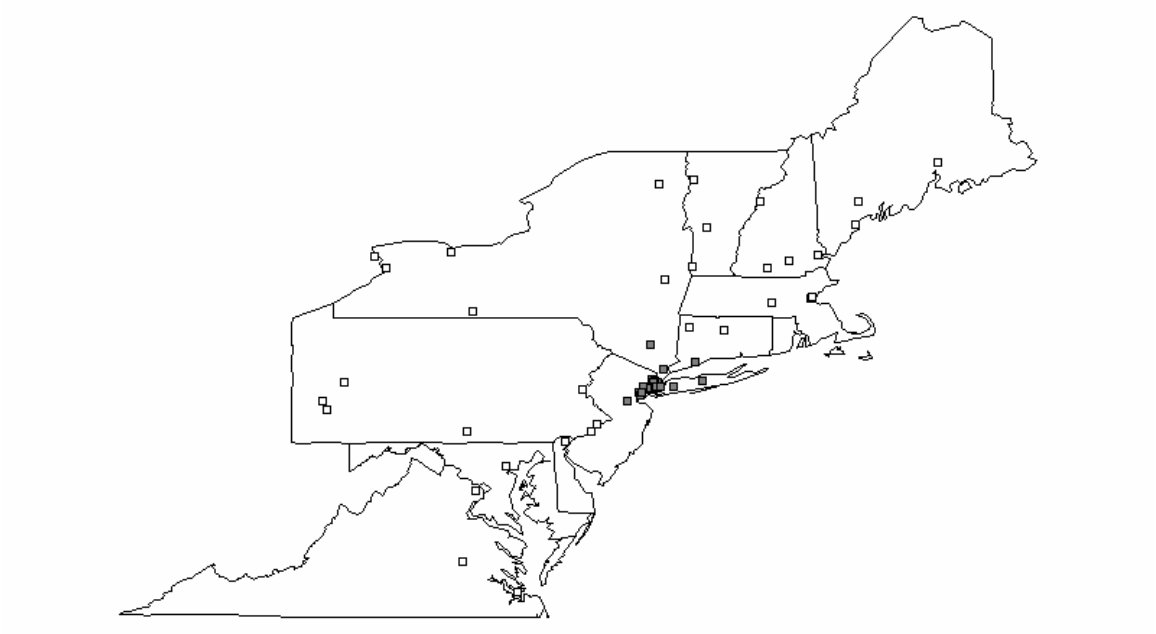


Figure 3. Locations of the speciation monitors across the OTR+ (open squares denote STN, open triangles denote IMPROVE) and the NYC NAA (filled squares denote STN). Nine of the 50 STN monitors are within the NYC NAA. There are 21 IMPROVE monitors across the OTR+ region.

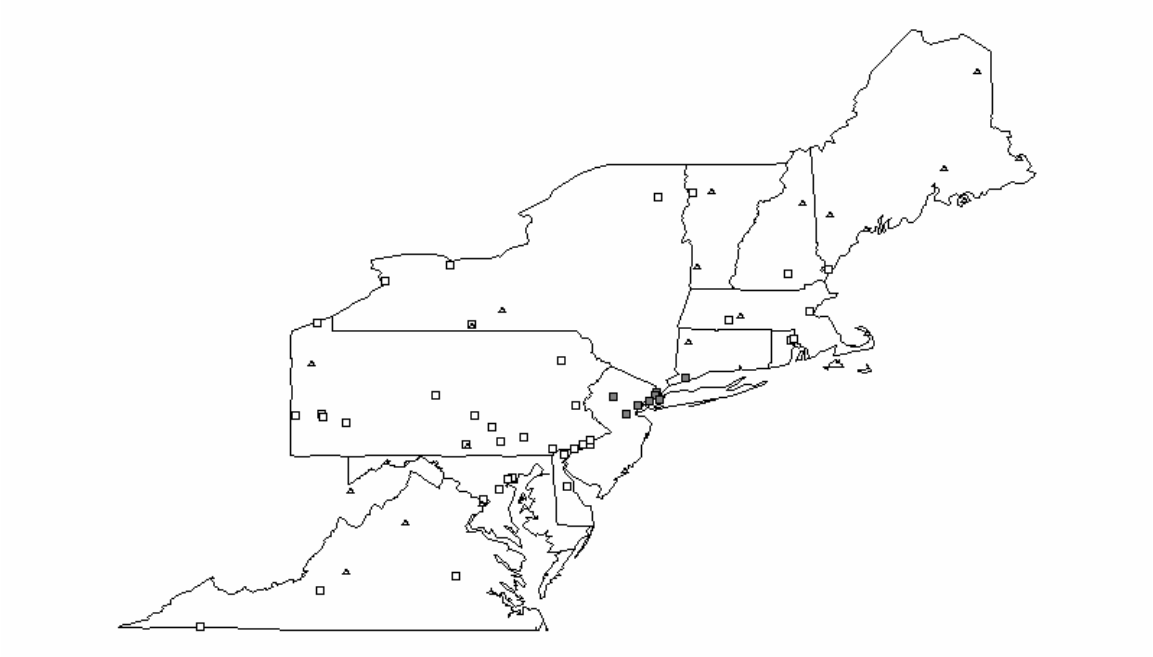


Figure 4. Time series of $PM_{2.5}$ mass based on the composite average of all 225 FRM monitors across the OTR+ region. The observed values are denoted with the black line, the model predictions are denoted with a thick gray line and asterixes.

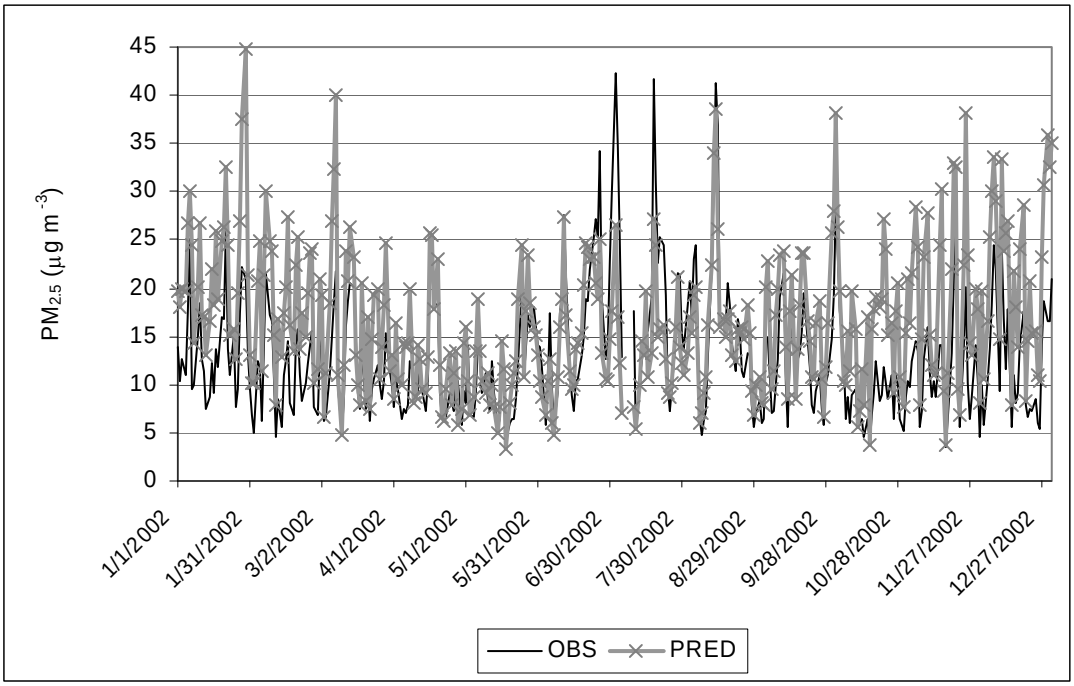


Figure 5. Mean fractional error (MFE, %) at each FRM location over the entire year: blue, <30%; green, 30-45%; orange, 45-60%; red, 60-75%; pink, >75%.

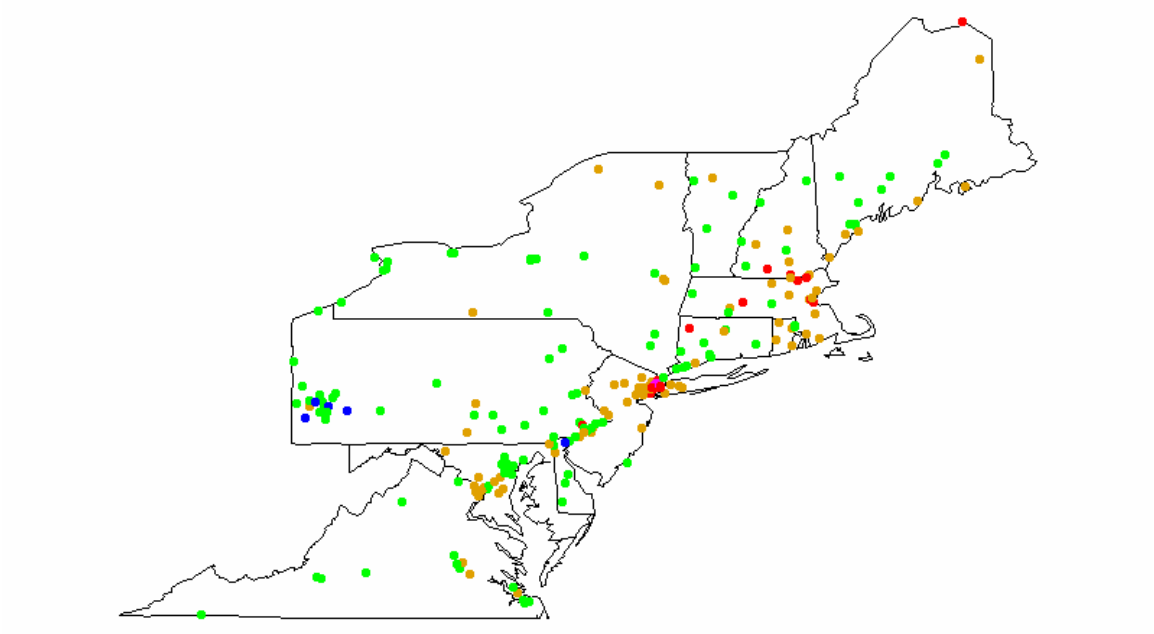


Figure 6. Mean fractionalized bias (MFB, %) at each FRM location over the entire year: gray, <-45%; blue, -45 to -15%; green, -15 to 15%; orange, 15-45%; red, 45-75%; pink, >75%.

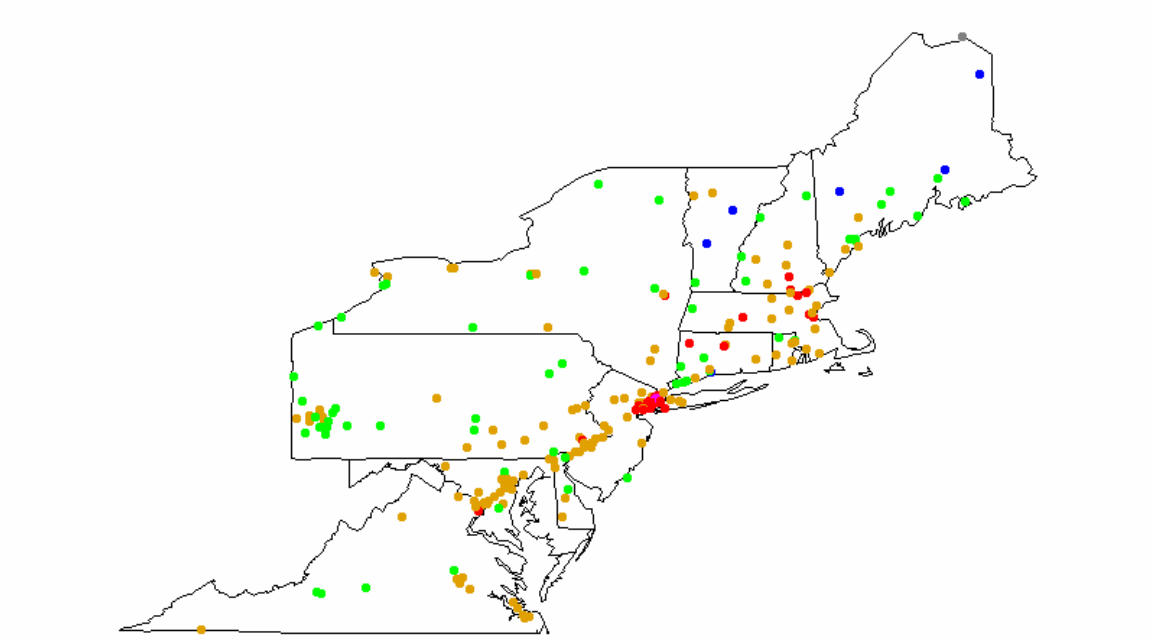


Figure 7. Observed and predicted quarterly average $PM_{2.5}$ mass at FRM locations, for the entire OTR+ region and for the NYC NAA.

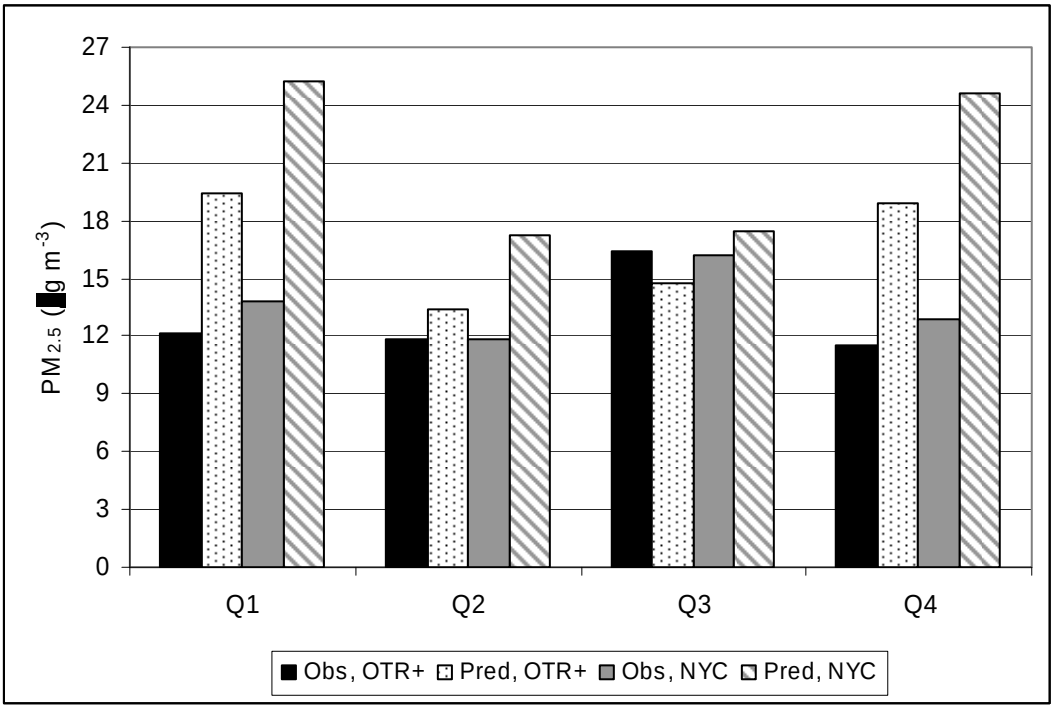


Figure 8. Time series of SO_4 mass based on the composite average of all 50 STN monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

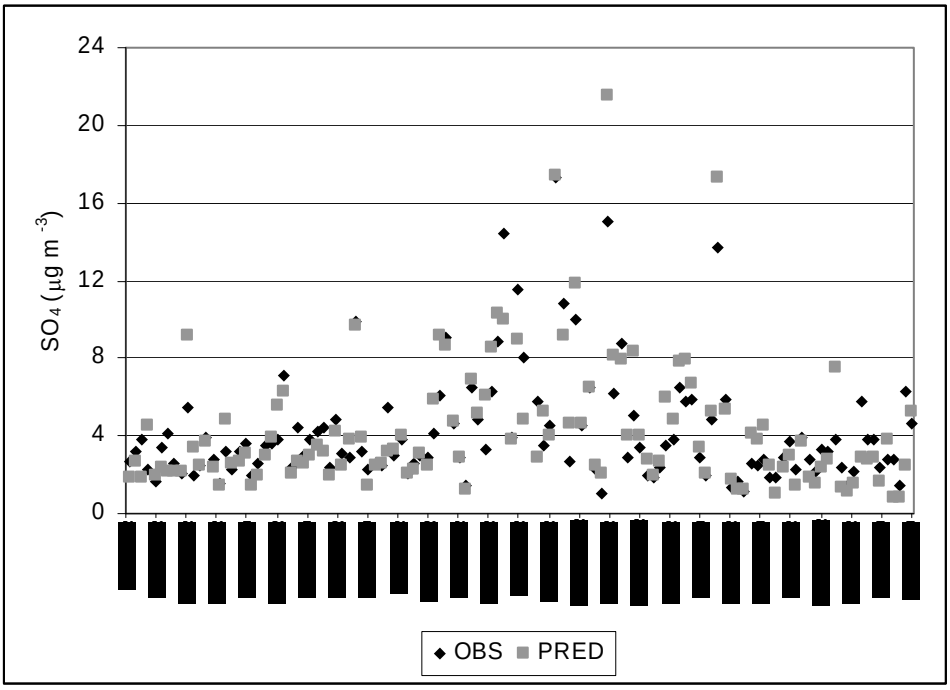


Figure 9. Time series of SO_4 mass based on the composite average of all 21 IMPROVE monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

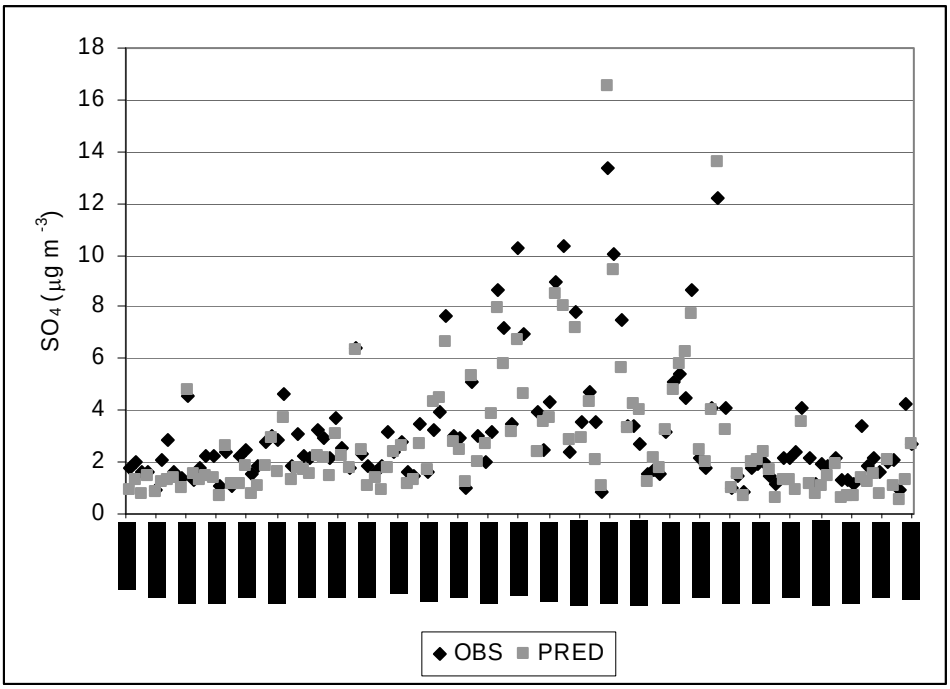


Figure 10. Time series of NO_3 mass based on the composite average of all 50 STN monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

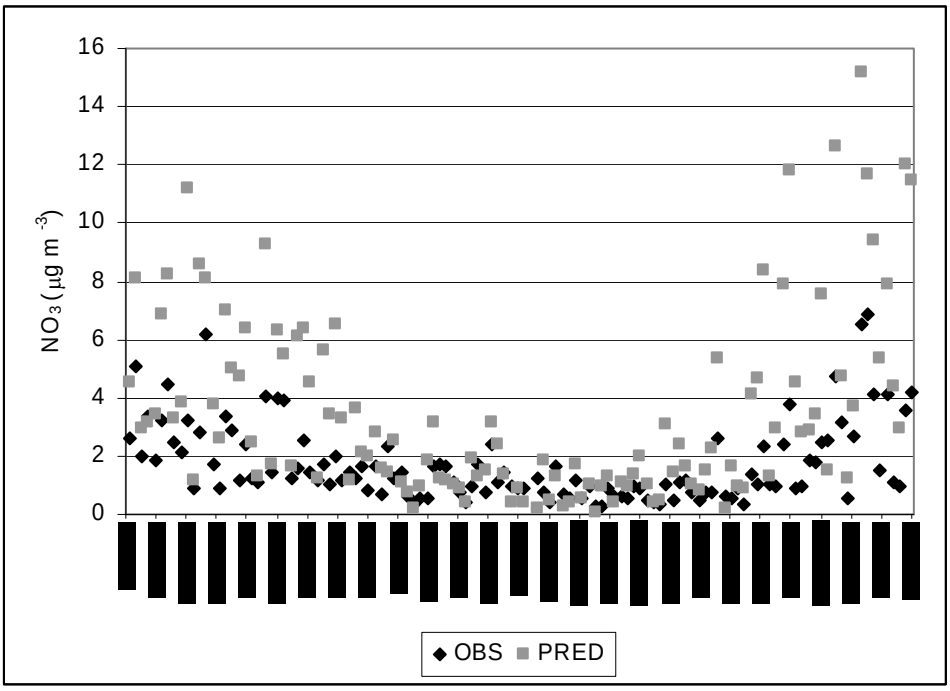


Figure 11. Time series of NO_3 mass based on the composite average of all 21 IMPROVE monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

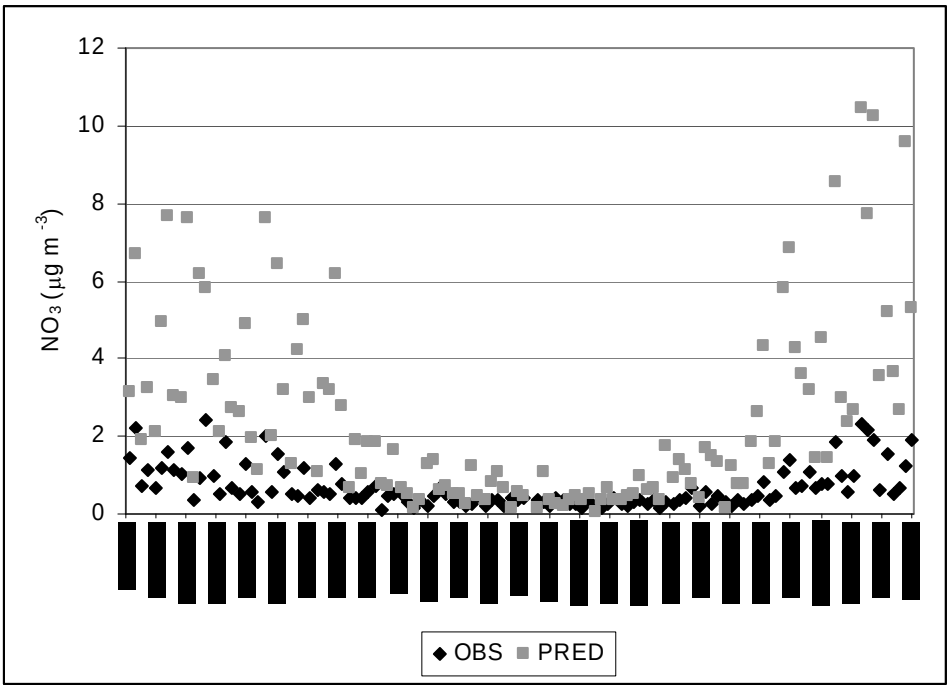


Figure 12. Time series of NH_4 mass based on the composite average of all 50 STN monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

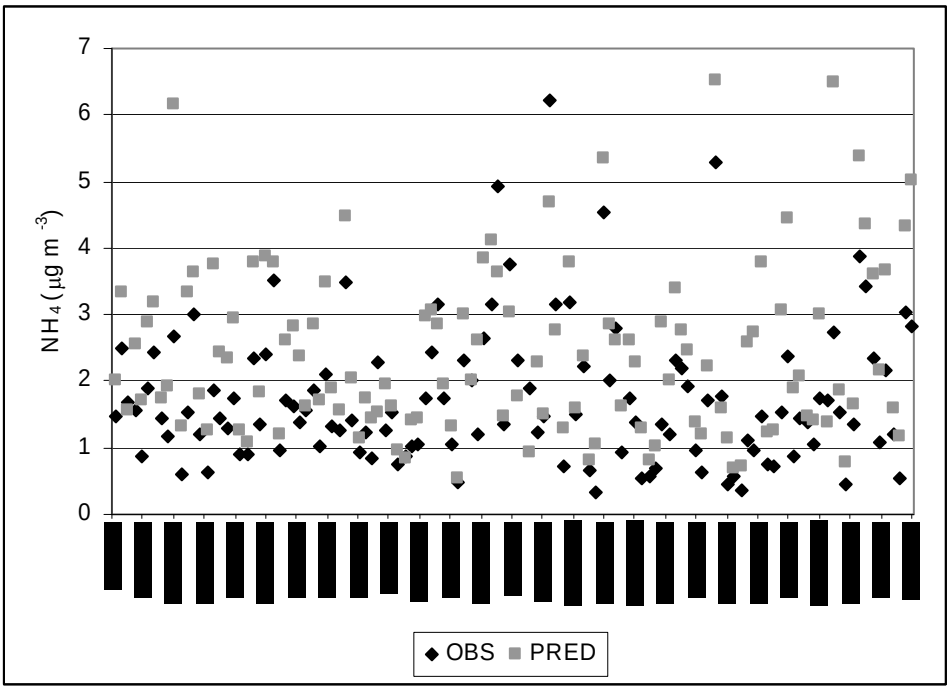


Figure 13. Time series of EC mass based on the composite average of all 50 STN monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

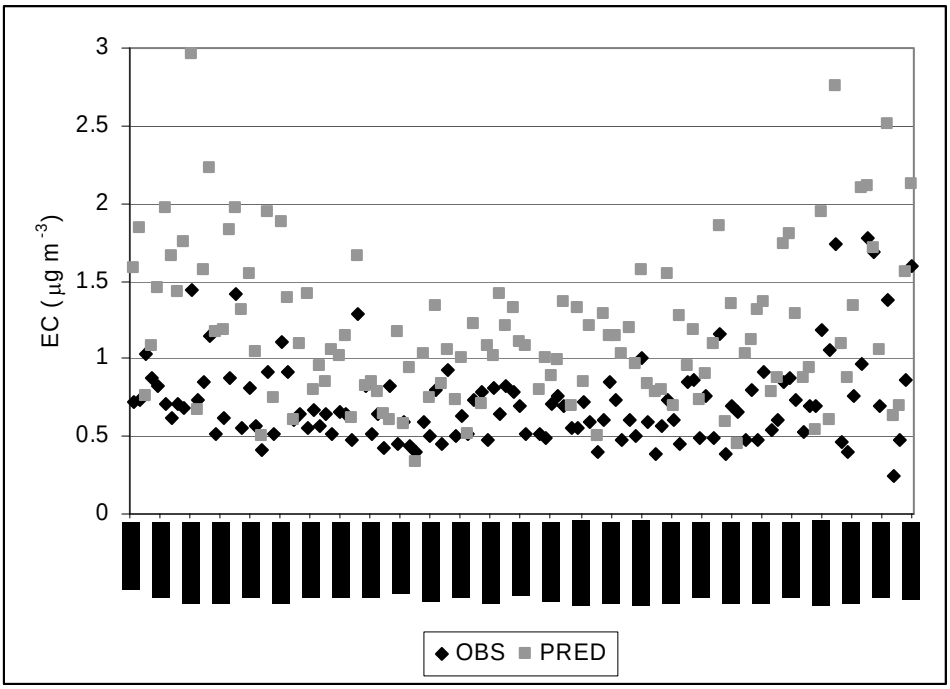


Figure 14. Time series of EC mass based on the composite average of all 21 IMPROVE monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

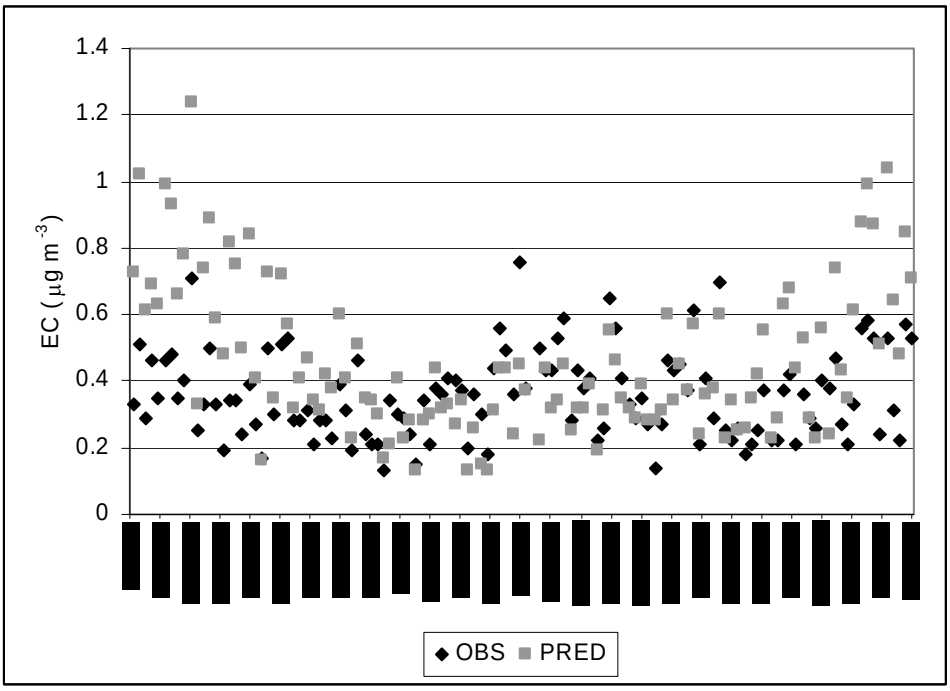


Figure 15. Time series of OM mass based on the composite average of all 50 STN monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

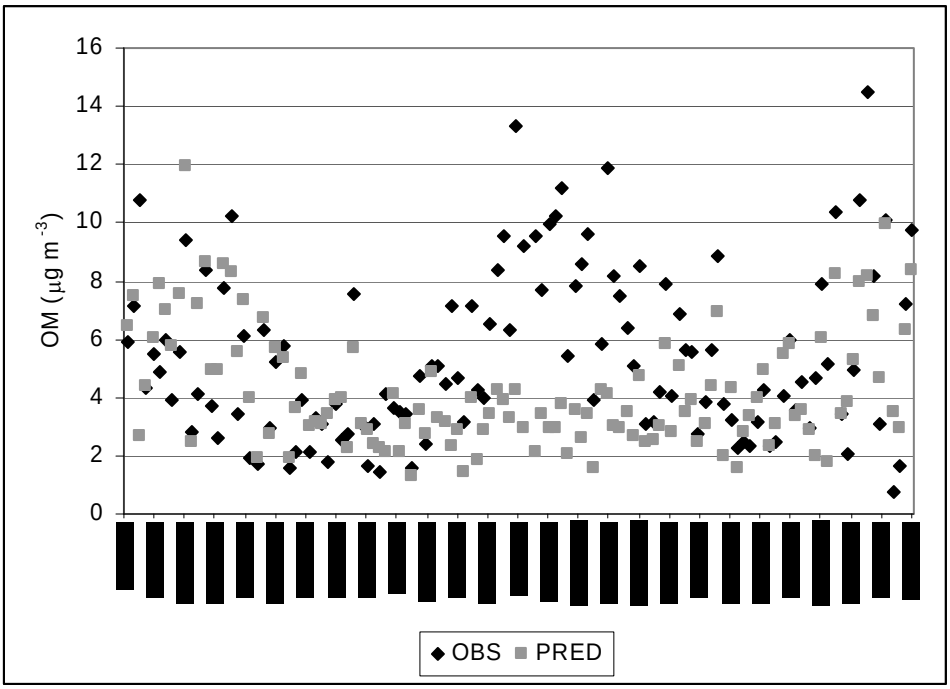


Figure 16. Time series of OM mass based on the composite average of all 21 IMPROVE monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

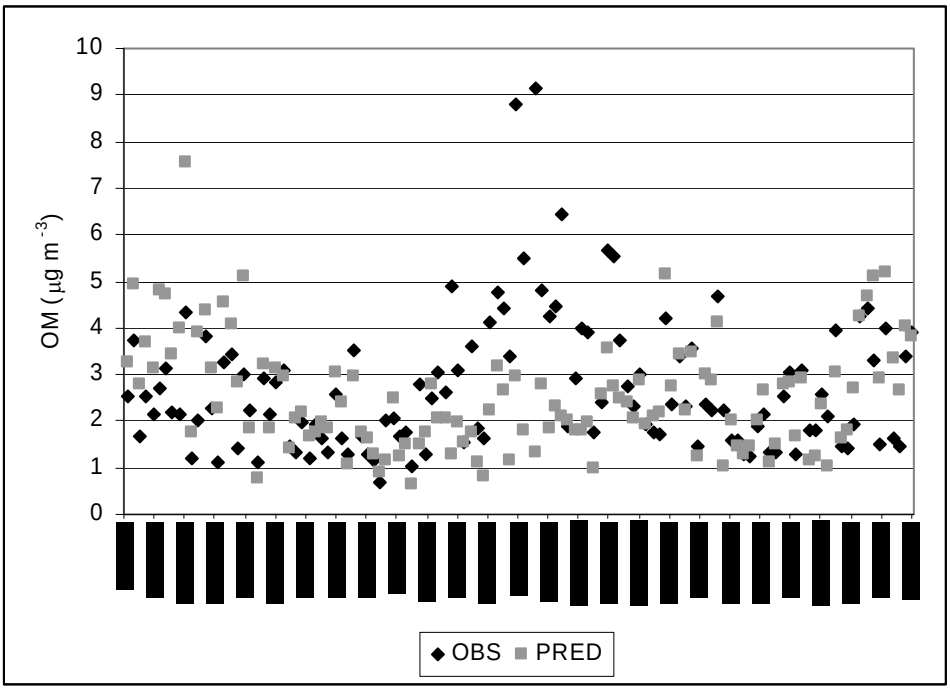


Figure 17. Time series of crustal mass based on the composite average of all 50 STN monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

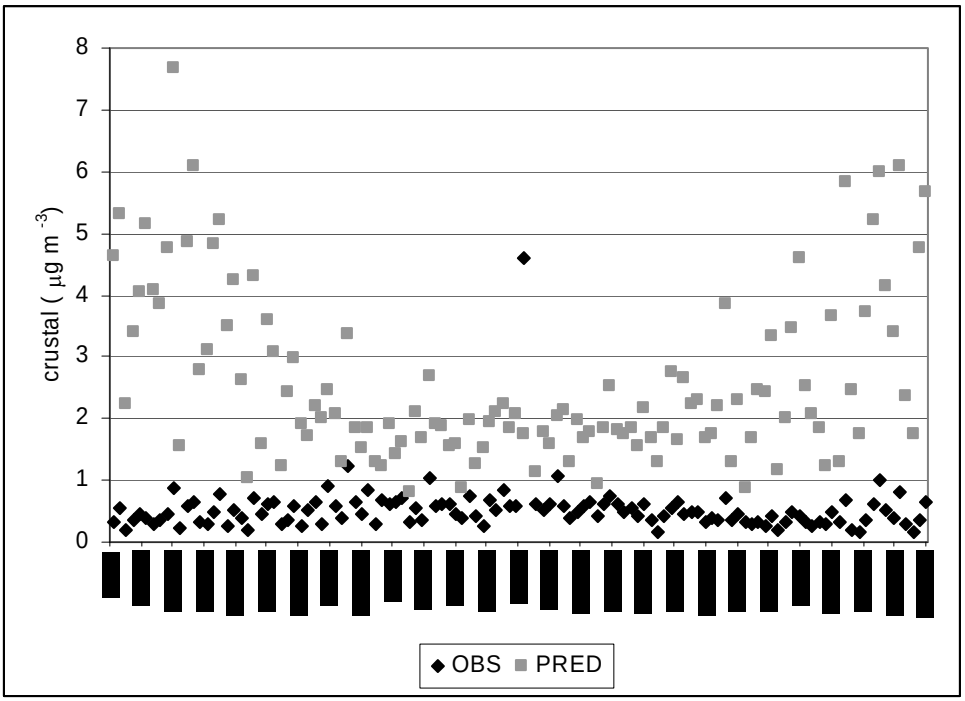


Figure 18. Time series of crustal mass based on the composite average of all 21 IMPROVE monitors across the OTR+ region. The observed values are denoted with the black diamonds, the model predictions are denoted with gray squares.

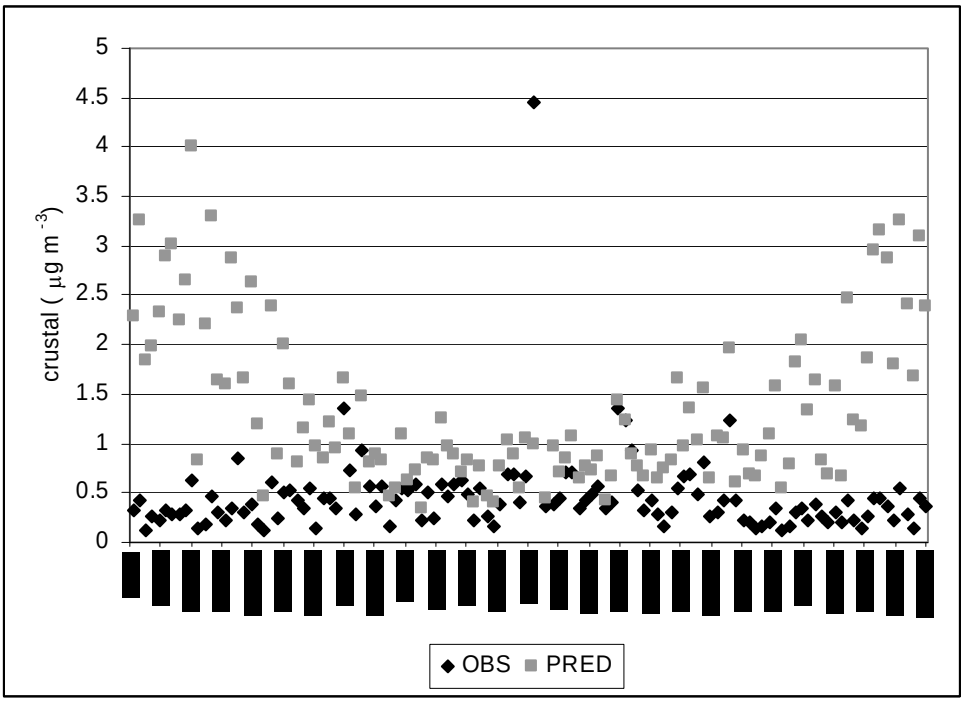


Figure 19. Quarterly variation in observed OM and predicted components of OM – anthropogenic primary organic aerosol (POA), anthropogenic secondary organic aerosol (SOA), and biogenic SOA – averaged over sites in the NYC NAA.

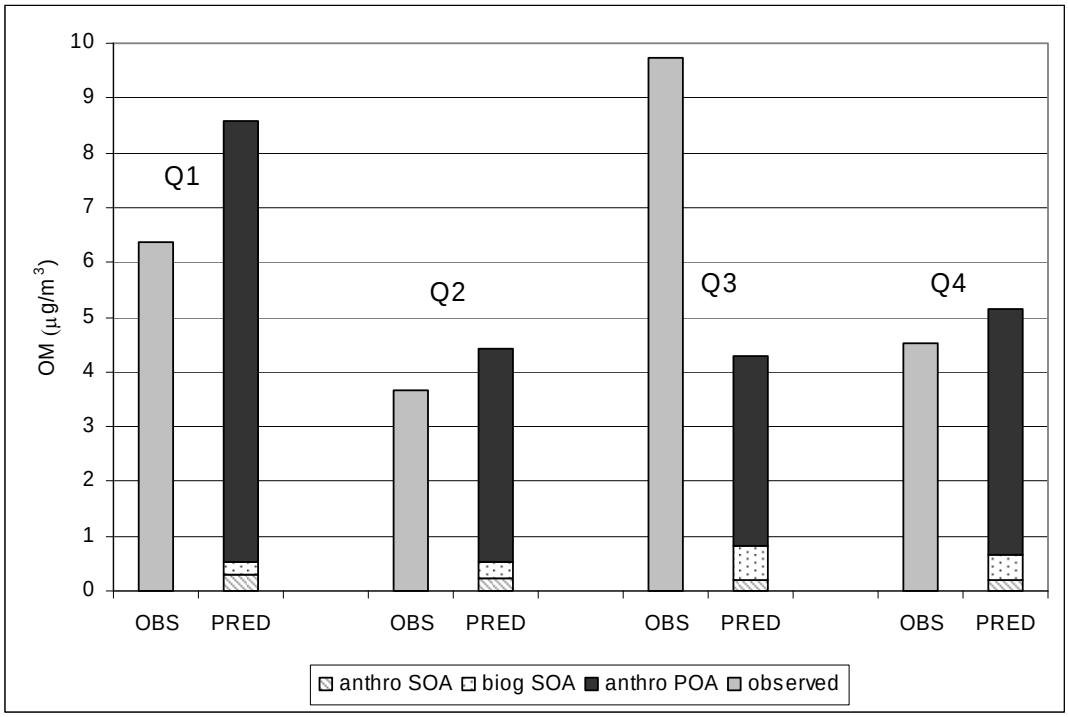


Figure 20. Composite average diurnal variation in observed (black line) and predicted (gray line) $PM_{2.5}$ mass over the 28 hourly monitors in the NYC NAA, entire year.

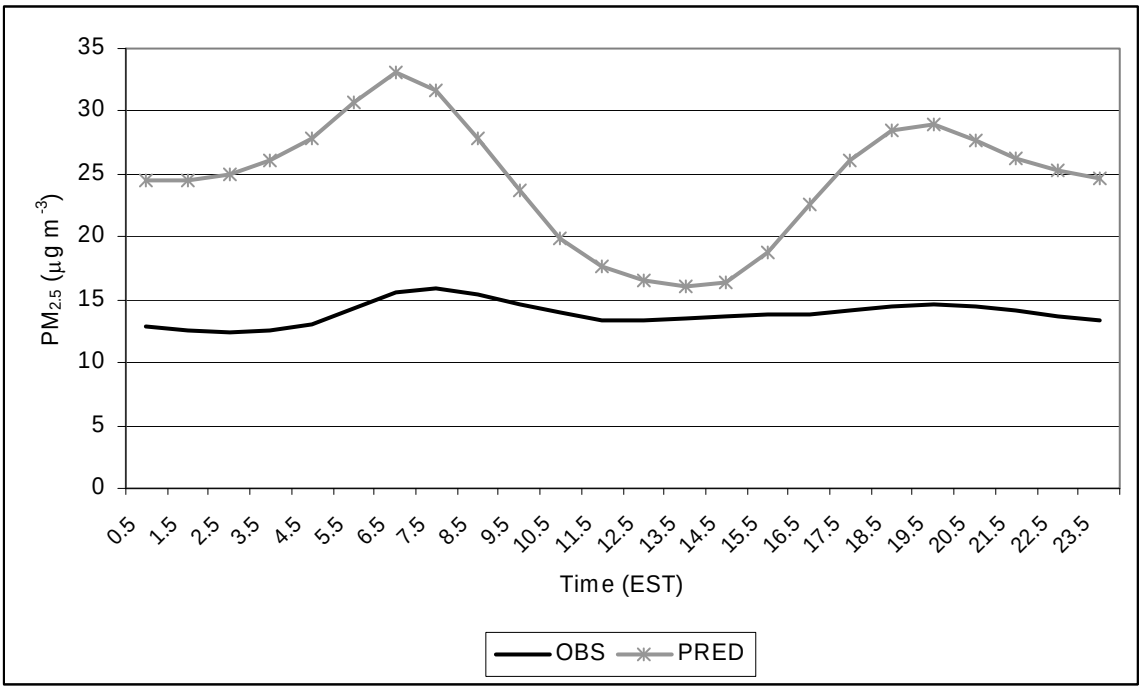


Figure 21. Composite average diurnal variation in observed (black line) and predicted (gray line) $PM_{2.5}$ mass over the 28 hourly monitors in the NYC NAA, quarter 1.

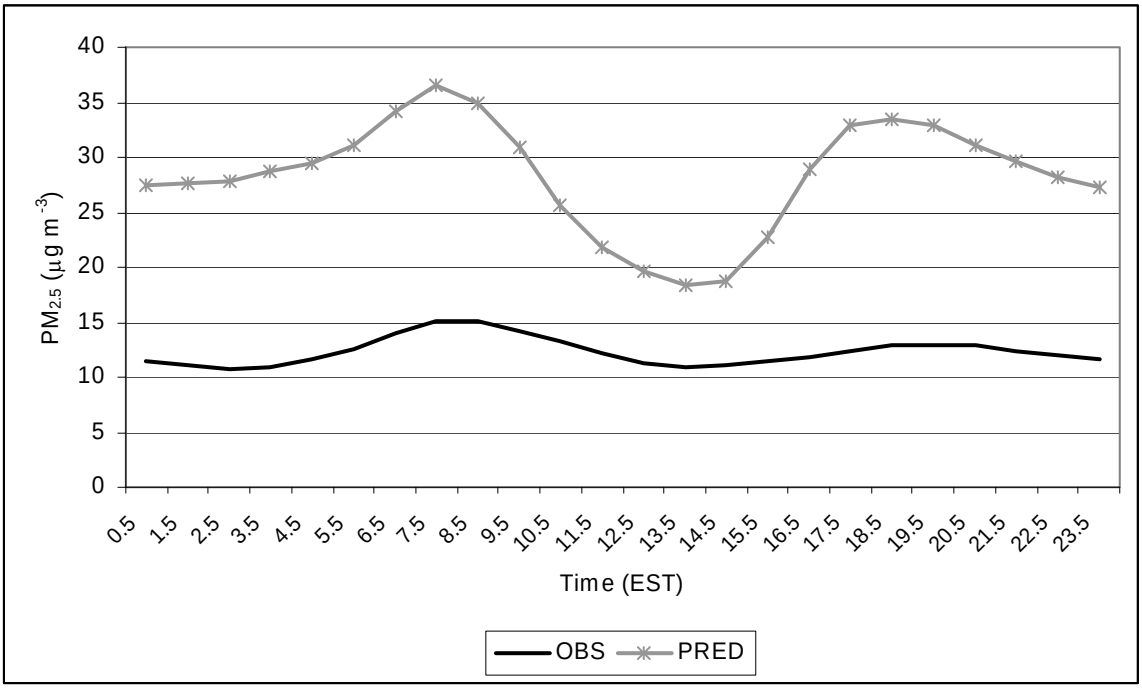


Figure 22. Composite average diurnal variation in observed (black line) and predicted (gray line) $PM_{2.5}$ mass over the 28 hourly monitors in the NYC NAA, quarter 3.

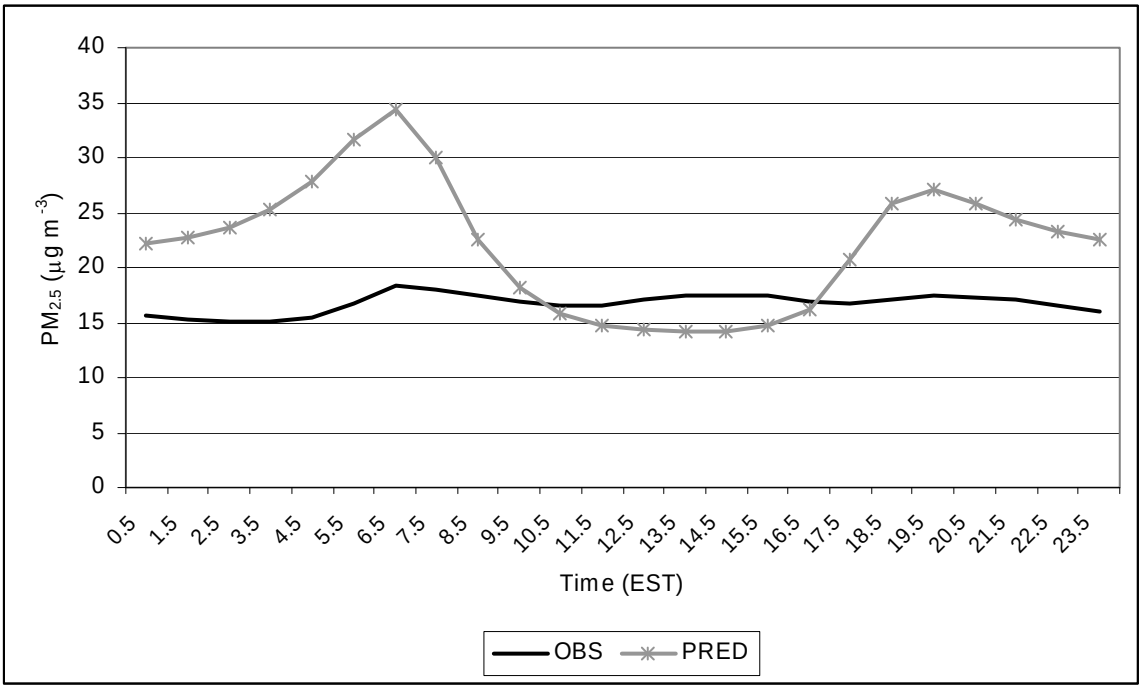


Figure 23. Average diurnal variation at IS52 (Bronx, NY) of SO_4, entire year.

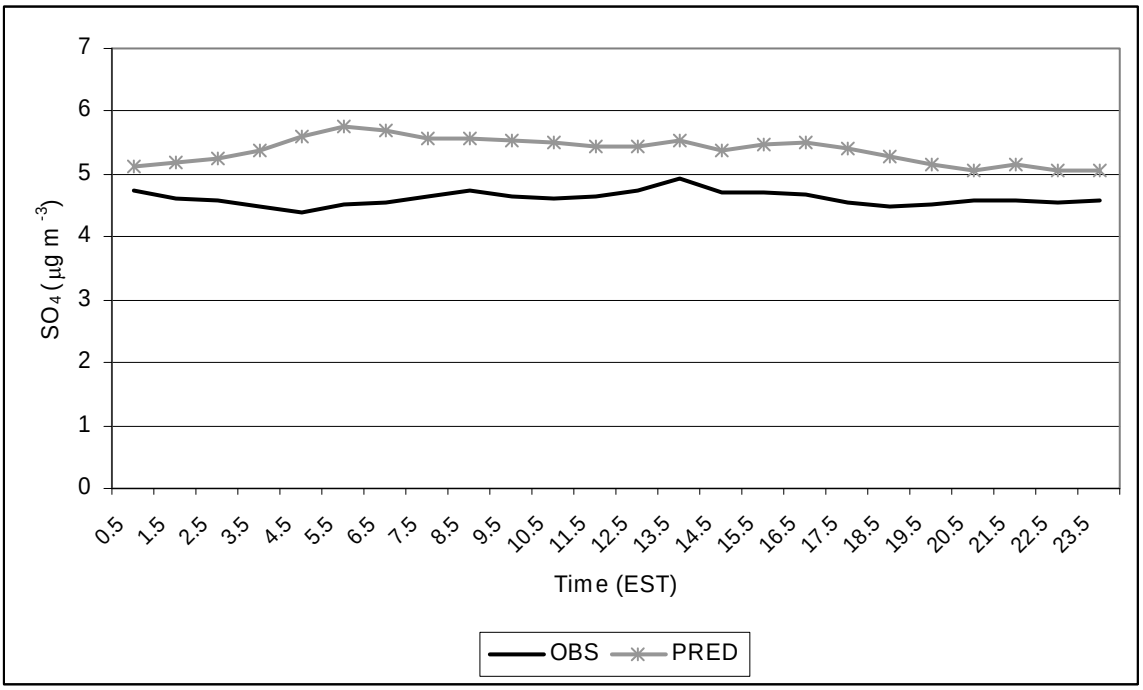
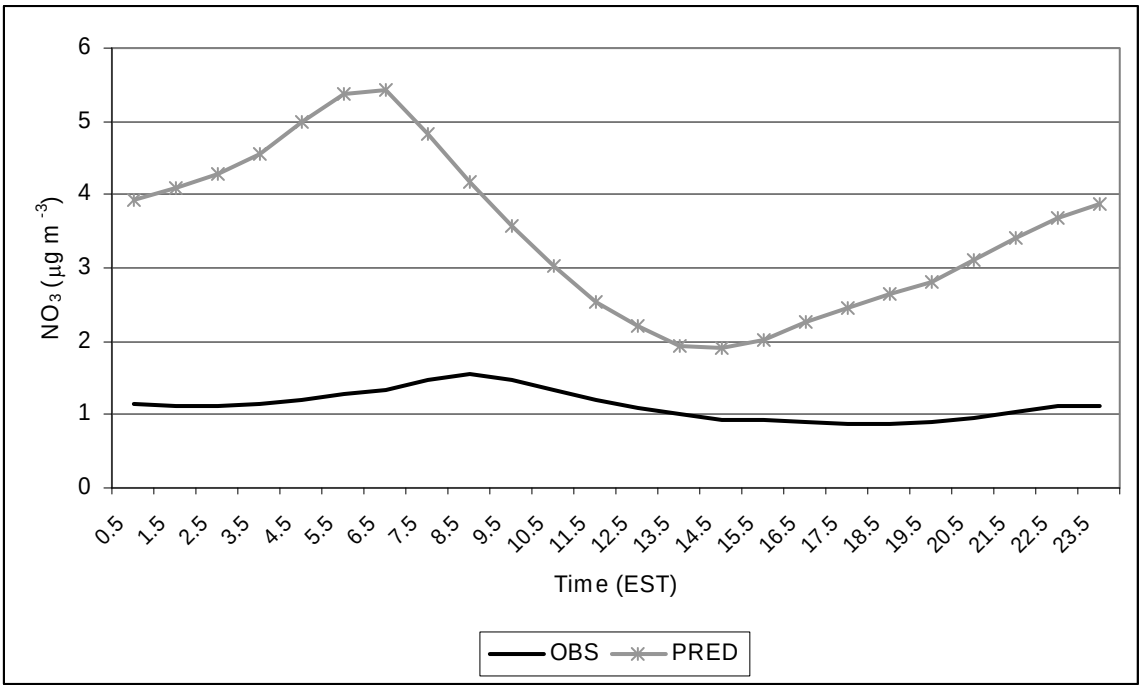


Figure 24. Same as Figure 23, except for NO_3.



K-2: Meterological Modeling using MM5

TSD-1a

Meteorological Modeling of 2002 using Penn State/NCAR 5th Generation Mesoscale Model (MM5)

Bureau of Air Quality Analysis and Research

Division of Air Resources

New York State Department of Environmental Conservation

Albany, NY 12233

March 19, 2006

Meteorological Modeling using Penn State/NCAR 5th Generation Mesoscale Model (MM5)

Version 3.6 of MM5 was used to generate annual 2002 meteorology for the OTC modeling work. Prof. Dalin Zhang of the University of Maryland performed the MM5 simulations in consultation with NYSDEC staff. The model was applied in Lambert conformal map projection and utilized MPP Version developed for clusters. The two-way nested domain consisted of coarse (36km) and fine (12km) mesh corresponding to 149x129 and 175x175 grids, respectively, in this application (see Figure 1).

The Lambert projection used in this work followed the Regional Planning Organization (RPO) national domain setup with the center at (40°N, 97°W) and parallels at 33°N and 45°N. Map projection parameters in reference to the projection center point are as follows: Southwest corner for the 36 km grid is at (-2664km, -2304km) and the northeast corner at (2664km, 2304km). In the case of the 12km grid, the southwest corner is at (252km, -900km) and the northeast corner at (2340km, 1188km). In the vertical direction, the terrain following σ-coordinate system was used with the pressure at each σ-level determined from a reference state that is estimated using the hydrostatic equation from a given sea-level pressure and temperature with a standard lapse rate. There are 30 unevenly spaced σ levels, giving 29 vertical layers, with higher resolution within the planetary boundary layer (PBL). The σ levels are:

1.0000, 0.9974, 0.9940, 0.8980, 0.9820, 0.9720, 0.9590, 0.9430, 0.9230, 0.8990,

0.8710, 0.8390, 0.8030, 0.7630, 0.7180, 0.6680, 0.6180, 0.5680, 0.5180, 0.4680,

0.3680, 0.3180, 0.2680, 0.2180, 0.1680, 0.1230, 0.0800, 0.0400, 0.0000

The surface layer was set at about 10m, the level at which surface winds were typically observed, and the model top was set at 50hPa with a radiative top boundary condition. The time steps for the 36km and 12km domains were 75 and 25 seconds, respectively.

The important model physics options used for this MM5 simulation include:

- Kain-Fritsch (1993) convective scheme for both 36- and 12-km domains
- Explicit moisture scheme (without the mixed phase) containing prognostic equations for cloud water (ice) and rainwater (snow) (Dudhia 1989; Zhang 1989)
- Modified version of the Blackadar planetary boundary layer (PBL) scheme (Zhang and Anthes 1982; Zhang and Zheng 2004)
- Simple radiative cooling scheme (Grell et al. 1994)
- Multi-layer soil model to predict land surface temperatures using the surface energy budget equation (Dudhia 1996)

Note that the Blackadar PBL scheme has been modified in order to correct the phase shift of surface wind speed and temperature diurnal cycle, following a study that compared five different PBL schemes: the Gayno-Seaman TKE scheme (Shafran et al. 2000), Burk-

Thompson (1989), Blackadar (Zhang and Anthes 1982), MRF (Hong and Pan 1996), and Mellor-Yamada-Jajic (Mellor and Yamada 1974; Jajic 1990, 1994). The details of the study can be found at Zhang and Zheng (2004).

Nudging Processes

The MM5 provides options for nudging observations for each domain during the model integration process (Stauffer and Seaman, 1990; Stauffer et al. 1991). The Eta analyses of upper-air winds, temperature and water-vapor mixing ratio as well as their associated surface fields were used for nudging every 6 hours, and the Eta surface wind fields blended with surface wind observations were used to nudge every 3 hours. While only the surface winds were nudged, their influences could extend into the PBL as well (see Stauffer et al. 1991). Based on UMD's prior experience in numerical experiments, the following nudging coefficients have been used:

- Upper-air wind fields: 5. 0E-4s^{-1} for Domain 1 (36km), and 2. 5E-4s^{-1} for Domain 2 (12km);
- Upper-air temperature fields: 1.0E-5s^{-1} for both Domains;
- Surface winds: 5. 0s^{-1}E-4s^{-1} for Domain 1, and 2.5E-4s^{-1} for Domain 2; and
- Surface temperature and moisture: not nudged due to instability consideration.

ASSESSMENT

This assessment covers the period of May through September 2002.

National Weather Service (NWS) and CASTNet data – Surface temperature, Wind Speed, and Humidity

NWS (TDL) and CASTNet (www.epa.gov/castnet/) surface measurements of temperature, wind speed, and humidity (note there were no humidity measurements for CASTNet) were used to compare with the MM5 outputs. The evaluation was performed with METSTAT program developed by Environ Corporation (www.camx.com/files/metstat.15feb05.tar.gz) When comparing to NWS data, the METSTAT interpolates the first layer MM5 (at 10m height) temperature and humidity data to a height of 2m, the level that corresponds to the NWS measurement of these parameters. However, no such interpolation was made for wind speed and direction. In the case of CASTNet surface measurements, no such changes were needed as CASTNet data were reported at a height of 10m. In this analysis, no exclusion was made for calm conditions. The reported calm winds (zero wind speed measured) were treated as is in this evaluation effort. The METSTAT calculated standard statistical measures – average, bias, error and index of agreement between the measured and predicted parameters.

Figure 2 displays the temperature and wind speed comparison of MM5 and measured data from NWS and CASTNet networks for August 2002. MM5 performance for both in magnitude and diurnal timing, temperature can be considered to be quite good for both NWS and CASTNet data, while MM5 underpredicted NWS and overpredicted CASTNet

daytime wind speed, respectively. It should be pointed out that there are differences in how the meteorological information is collected and reported by the two networks as well as in MM5. The CASTNet measurements are based on hourly averaged wind speed while NWS reports 2min average at 10min before the hour, whereas MM5 predictions are reflective of the last time-step of the hour of computation. Interestingly, MM5 appears to track quite well the nighttime minimum wind speed for both networks. In the case of humidity (not shown), MM5 tracks the NWS observed humidity trend well, but MM5 missed the observed semi-diurnal cycles. Comparisons for the five months including bias and root mean square error from both NWS and CASTNet are available on request from NYSDEC.

The above assessment is based on domain-wide averages to provide an overall response of the model over the five months. Another way of assessing the model is to examine the degree of correlation between the measured and predicted parameters. Figures 3a and 3b displays such a comparison for wind speed and temperature, respectively, for the NWS hourly data covering the period of May through September 2002. For the NWS data, the correlations are in the range from 0.7 to 0.8 for wind speed, above 0.96 for temperature, and in the range of 0.8 to 0.9 for humidity. CASTNet data (not shown) also exhibit similar correlation. These correlations indicate that MM5 simulation has captured both the diurnal and synoptic scale variations. Detailed plots of this comparison are available on request from NYSDEC.

Vertical Profiler – Winds

The Wind-Profiler network measurements along the U. S. East Coast (www.madis-fsl.org/cap) were used to evaluate the vertical profiles from MM5. There are twelve wind-profiler measurement stations from which data were available for comparison. For convenience of comparison, the wind-profiler measurements were interpolated to the MM5 vertical levels. The approach used was simple interpolation between two adjacent wind-profiler layers to the MM5 vertical level, and was limited to that reported by the profiler measurement. The focus of the comparison was to assess if MM5 was able to capture the measured vertical structure, and for this we used the observed Low Level Jet (LLJ) as an indicator. The comparison was performed for June, July and August 2002. In general it is found that MM5 captures the profiler measured vertical wind field structure reasonably well. Figure 4 displays an example of the MM5 and wind profiler comparison for the August 2002 episode at Richmond, VA and Concord, NH. MM5 predicted weaker LLJ winds compared to those based on the wind-profiler measurements. The detailed plots of this comparison are available on request from NYSDEC.

Cloud Cover – Satellite cloud image

Cloud information derived from satellite image data (www.atmos.umd.edu/~srb/gcip/webgcip.htm)were used to assess the MM5 prediction of cloud cover. The 0.5^{o} by 0.5^{o} resolution of the satellite data were interpolated into the 12km MM5 grid for comparison. The MM5 total cloud fraction was estimated by MCIP based on the MM5's low cloud, middle cloud and high cloud predictions. In general,

MM5 captured the satellite cloud pattern well but underestimates the satellite cloud fraction (see Figure 5 as an example). Part of problem may due to the coarse resolution of the satellite cloud data.

Precipitation comparison

The monthly total observed precipitation data were constructed from 1/8-degree daily precipitation analysis data (http://data.eol.ucar.edu/codiac/dss/id=21.093 produced by Climate Prediction Center, based on 7,000-8,000 hourly/6-hourly gauge reports and radar). The MM5 monthly total precipitation was estimated from the MM5 predicted convective and non-convective rainfall and summed up for each month. In general, MM5 captured the observed spatial patterns in May and September, but no so well for June, July and August (See Figure 6), perhaps reflective of the summertime convective rain activities not captured by MM5. Detailed plots of this comparison are available on request from NYSDEC.

Calm Conditions

Calm conditions are defined as observed wind speed of zero knots and wind direction as 0°. It would be useful to assess how MM5 performs under observed calm conditions, because of potential pollutant buildup that could occur under such conditions. Table 1 lists the summary of the percentage of calm condition at each hour for the August 2002 from the NWS data within the 12km domain. It is apparent from the Table that the calm conditions occur primarily during the night and early morning hours, from 23Z (7 p.m. EDT) to 15Z (11 a.m. EDT) with a peak at 10Z (6 a.m. EDT). To assess MM5 performance, the observed and MM5 predicted wind speeds were divided into calm and non-calm according to observed wind speed. Figure 7 displays such a comparison of the MM5 predicted wind speed to the observed wind speed under the calm and non-calm conditions for the month of August 2002. For the "calm" group, the average wind speed for MM5 varies from 1 m/s during the night and early morning hours and over 1.5 m/s during the day. MM5 is over-predicting during observed calm wind conditions. There are local minima every 3 hours, due to the surface observed wind speed nudging in MM5. In contrast under the non-calm conditions, MM5 underpredicts by about 0.5 m/s for all hours with noticeable local maximum happening at the nudging hours. The MM5 nudging process would pull predictions toward the measured data, while the underprediction of MM5 for the non-calm conditions may due to the adopted PBL scheme in this simulation.

Summary

In this study, we performed an assessment of the MM5 simulation to real-world data, both at the surface level as well as in the vertical. While there are no specific recommended procedures identified for this assessment, similar approaches have been used elsewhere (Dolwick 2005, Baker 2004, and Johnson 2004). Traditionally, the NWS surface measurements are used for such a comparison. Since NWS data had been used through nudging processes in developing the MM5 simulation, the comparisons should

not be far removed from each other. In this study, we extended the evaluation by using CASTNet measurements that were not used in the MM5 simulations. Thus comparison with CASTNet data provides for an independent assessment and should complement the comparison with NWS data. We also compared the MM5 results with the wind profiler data and cloud data derived from satellite images to diagnose if the MM5 simulation is yielding the right type of dynamics in the vertical. The analyses shows that in general, the performance of the MM5 is reasonable both at the surface and in the vertical, thereby providing confidence in the use of these data in the CMAQ simulations.

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Table 1 Measured calm and non-calm occurrences over the modeling domain during August 2002 based on NWS data

Hour	#Non-Calm	#Calm	#Total	% Calm
00Z	18209	3924	22133	17.7
01Z	16531	6026	22557	26.7
02Z	15604	6929	22533	30.8
03Z	14983	7245	22228	32.6
04Z	14309	7540	21849	34.5
05z	14073	7735	21808	35.5
06Z	13934	7949	21883	36.3
07Z	13792	8040	21832	36.8
08Z	13542	8273	21815	37.9
09Z	13542	8385	21927	38.2
10Z	13708	8591	22299	**38.5**
11Z	14139	8693	22832	38.1
12Z	15297	7690	22987	33.5
13Z	17336	5192	22528	23
14Z	18522	3439	21961	15.7
15Z	18755	2617	21372	12.2
16Z	19169	2015	21184	9.5
17Z	19555	1617	21172	7.6
18Z	19982	1430	21412	6.7
19Z	20149	1389	21538	6.4
20Z	20565	1288	21853	5.9
21Z	20518	1383	21901	6.3
22Z	20672	1556	22228	7
23Z	20231	2292	22523	10.2

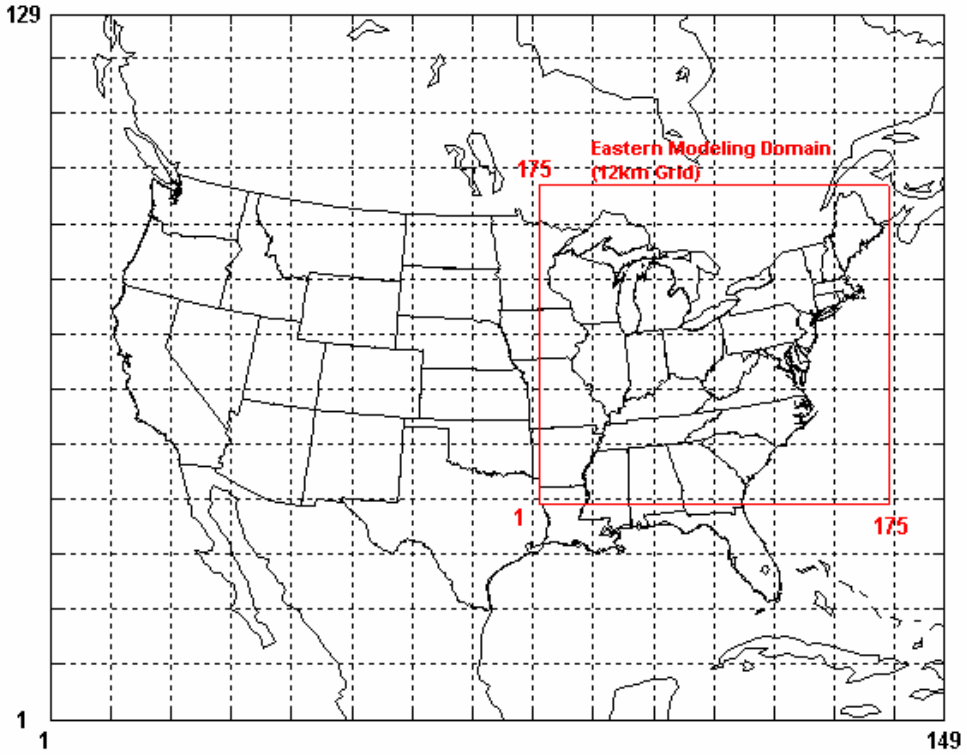


Figure 1: OTC MM5 modeling domain with areal extent of 12km and 36km grids

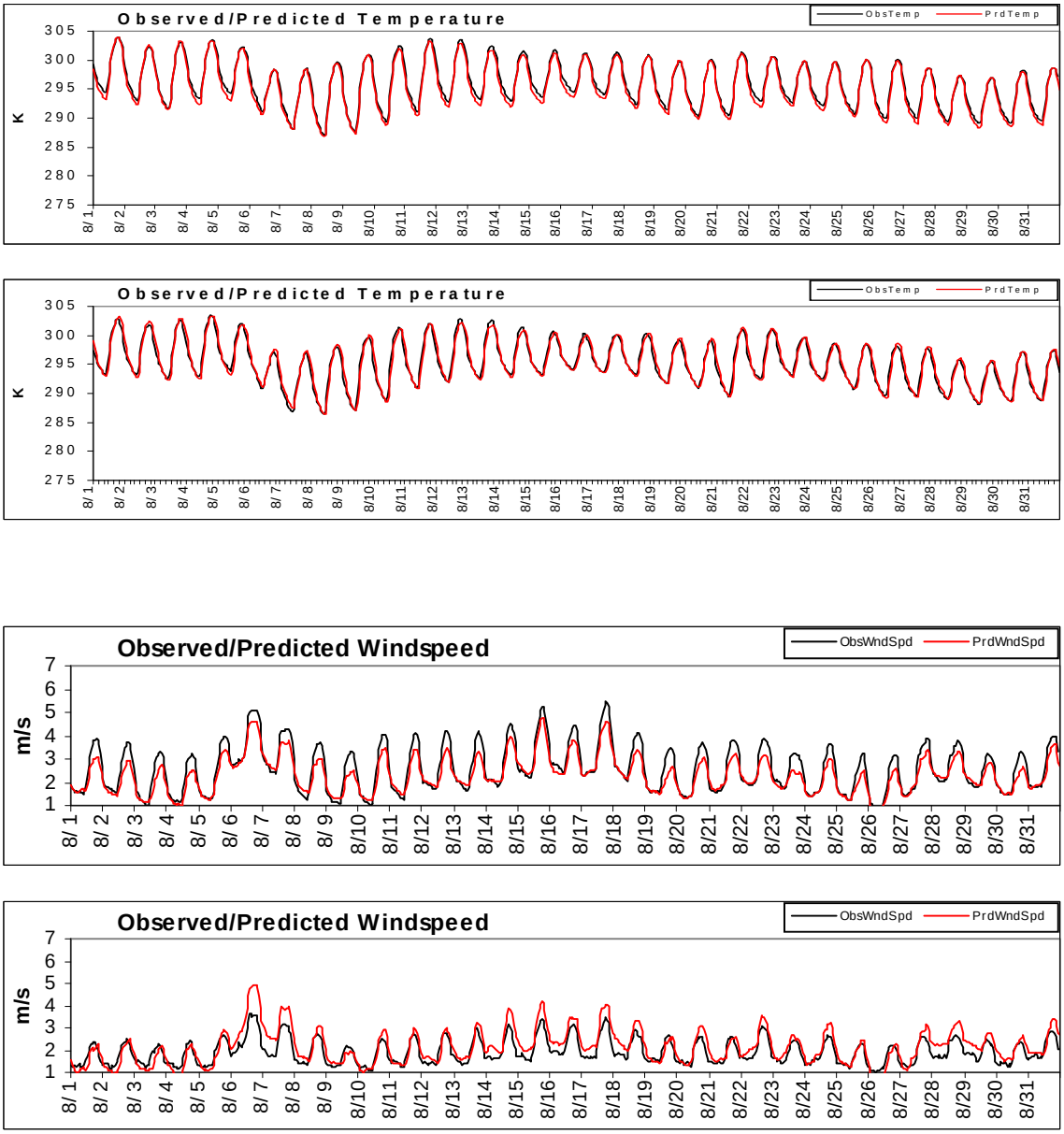


Figure 2: Temperature and Wind speed comparisons for August 2002. In each case the upper panel corresponds to comparison between MM5 and NWS data and the lower panel between MM5 and CASTNet data.

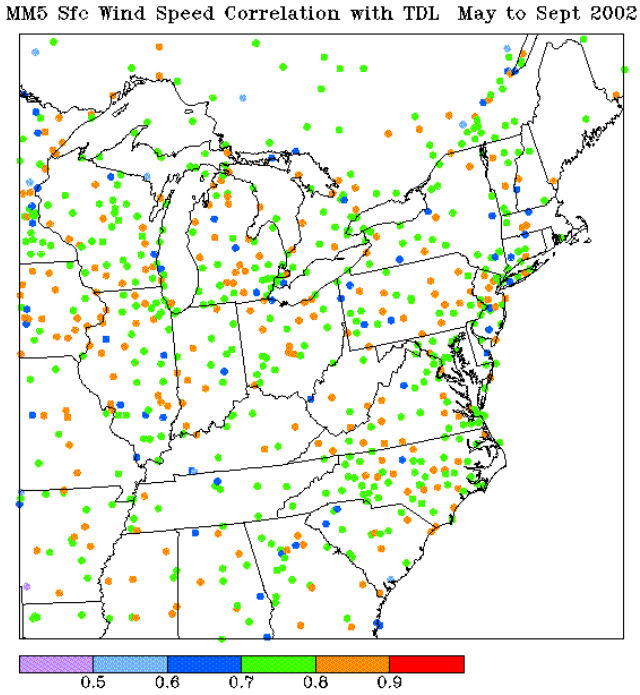


Figure 3a: Spatial correlation estimates between MM5 and NWS data for wind speed from May to September 2002

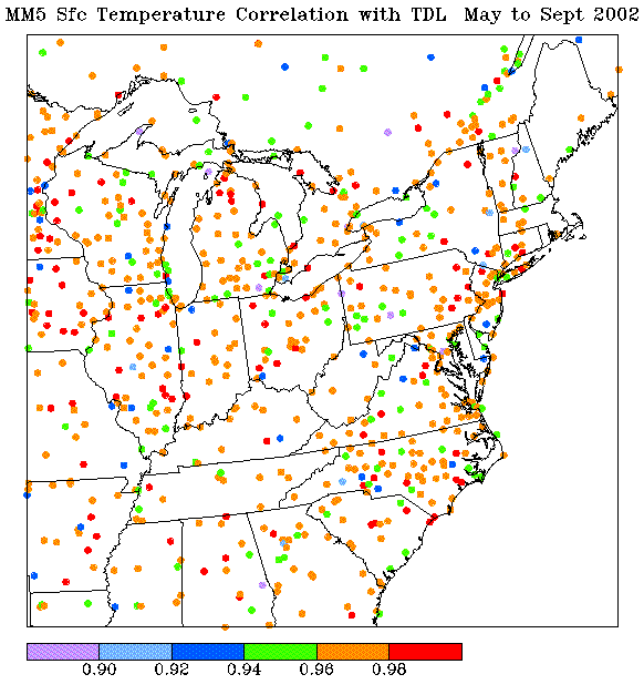
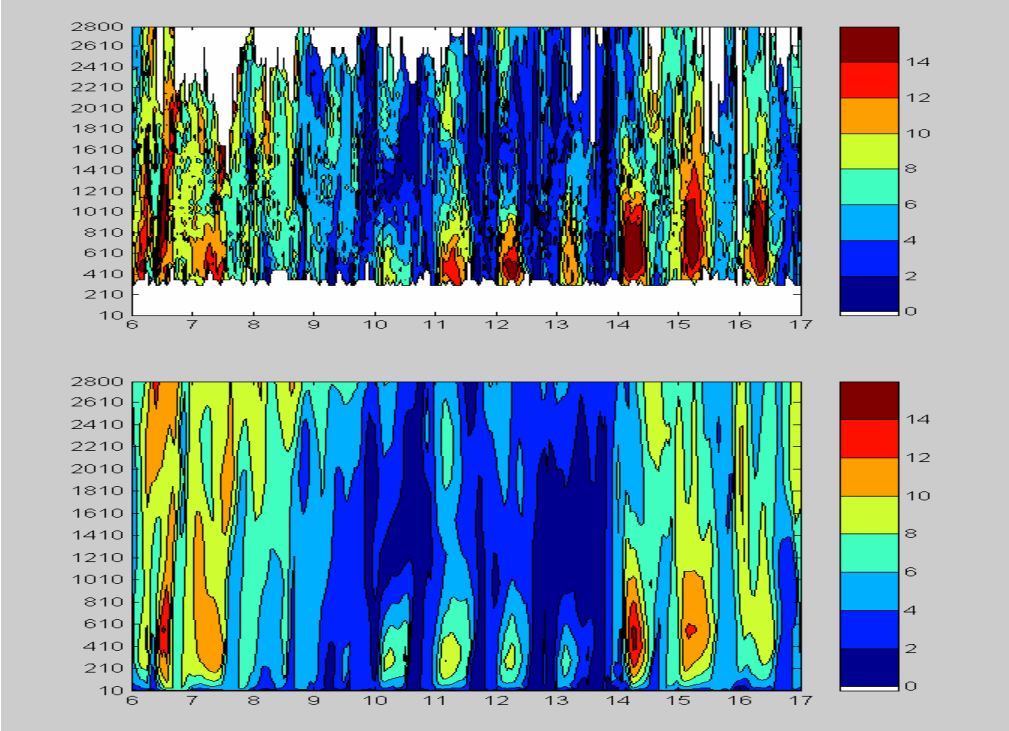


Figure 3b: Spatial distribution of correlation coefficients for Temperature between MM5 and NWS data from May to September 2002.

Richmond, VA



Concord, NH

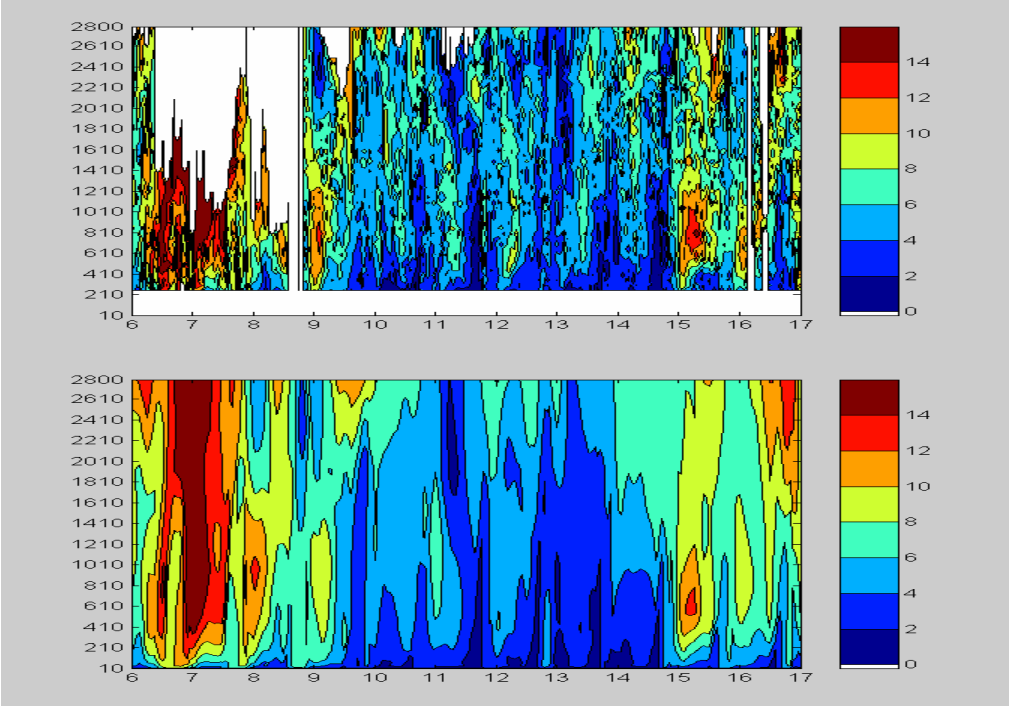


Figure 4: MM5 and Wind profiler comparison for August 6 to 17, 2002 at Richmond, VA and Concord, NH. The upper and lower panes at each station are for MM5 and profiler, respectively. The abcissa represents day and the ordinate the height (m).

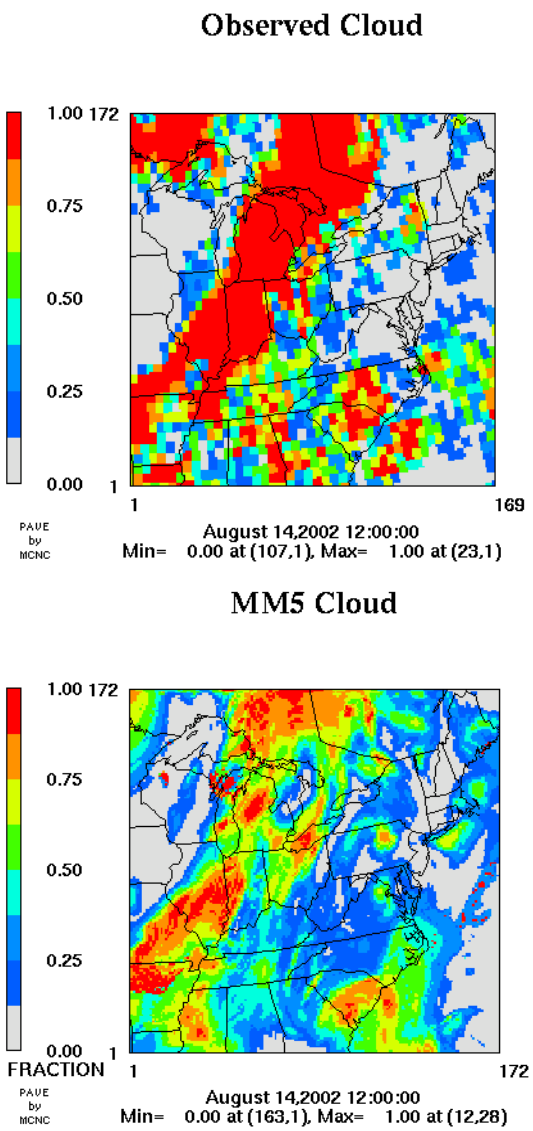


Figure 5: MM5 and Satellite cloud images for August 14, 2002 at 0700 EST

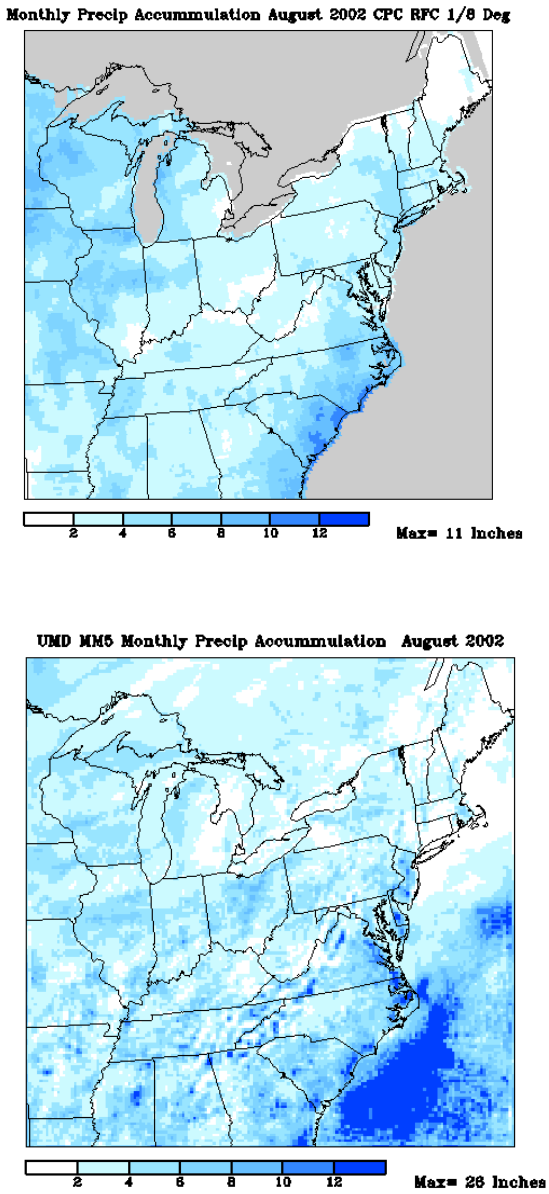


Figure 6: MM5 predicted and measured precipitation over the domain for the month of August 2002

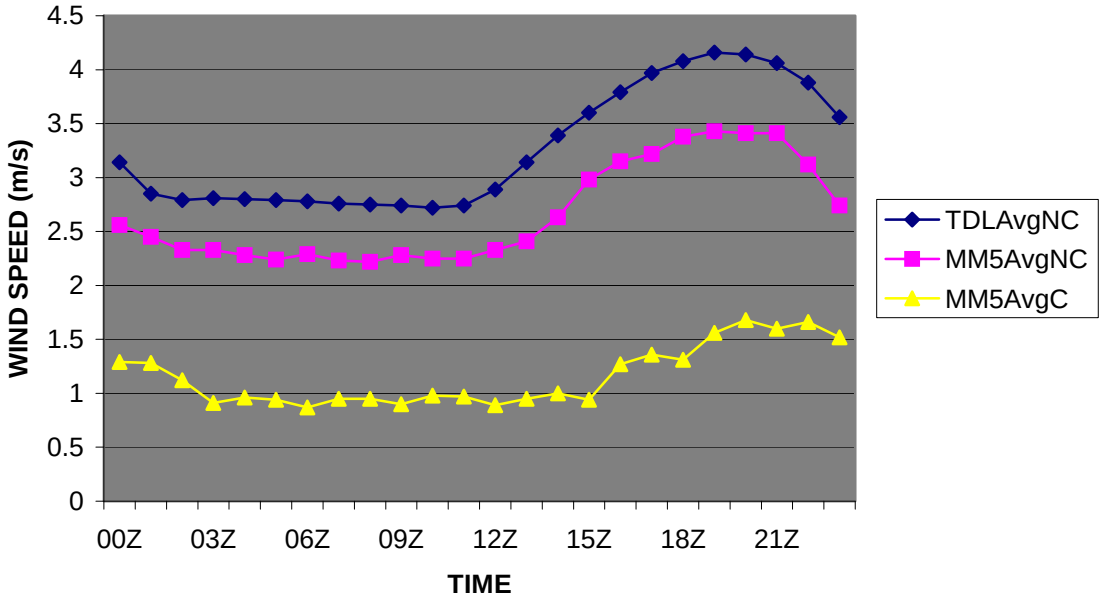


Figure 7: Comparison of averaged wind speed between MM5 and observed under calm (C) and non-calm (NC) conditions.

K-3: Processing of 2002 Anthropogenic Emissions

TSD-2b

Processing of 2002 Anthropogenic Emissions: OTC Regional and Urban 12km Base Year Simulation

Bureau of Air Quality Analysis and Research
Division of Air Resources
New York State Department of Environmental Conservation
Albany, NY 12233

March 19, 2007

Overview

All emissions processing for the revised 2002 OTC regional and urban 12 km base case simulations was performed with SMOKE2.1 compiled on a Red Hat 9.0 Linux operating system with the Portland group fortran compiler version 5.1. The emissions processing was performed on a month-by-month and RPO-by-RPO basis, i.e. SMOKE processing was performed for each month for each of the RPOs (MANE-VU, VISTAS, CENRAP, MRPO) individually as well as for Canada. For each month/RPO combination, a separate SMOKE ASSIGNS file was created, and the length of the episode in each of these ASSIGNS files was set to the entire month. Also, as discussed in Section 3, there was no difference between "episode-average" temperatures and "monthly-average" temperatures for the Mobile6 simulations that used the option of temperature averaging.

This document is structured as follows: A listing of all emission inventories is given in Section 2, organized by RPO and source category. Section 3 discusses the Mobile6 processing approach employed for the different RPOs, while Section 4 describes the processing of biogenic emissions with BEIS3.12. Finally, Sections 5 through7 describe the temporal allocation, speciation, and spatial allocation of the emissions inventories, respectively.

1. Emission Inventories

1.1 MANE-VU

Version 3 of the MANE_VU inventory was utilized to generate CMAQ-ready emissions. This emissions inventory data were obtained from the MANEVU archive in April 2006.

1.1.1 Area Sources

- Files: MANEVU_AREA_SMOKE_INPUT_ANNUAL_SUMMERDAY_040606.txt and MANEVU_AREA_SMOKE_INPUT_ANNUAL_WINTERDAY_040606.txt prepared by PECHAN, downloaded from **ftp.marama.org** (username mane-vu, password exchange)
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing

1.1.2 Nonroad Sources

- File: MANEVU_NRD2002_SMOKE_030306 prepared by PECHAN; downloaded from **ftp.marama.org** (username mane-vu, password exchange)

1.1.3 Mobile Sources

- VMT/Speed: MANEVU_2002_mbinv_02022006_addCT.txt prepared by PECHAN and NESCAUM; downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar

1.1.4 Point Sources

- Files: MANEVU_Point_SMOKE_INPUT_ANNUAL_SUMMERDAY_041006.txt and MANEVU_Point_SMOKE_INPUT_ANNUAL_WINTERDAY_041006.txt prepared by PECHAN were downloaded from **ftp.marama.org** (username mane-vu, password exchange)
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing
- Corrected the omission of 2,100 tons/year VOC emissions from several point sources in NJ. NJDEP provided updated IDA files on June 30 that were used for modeling.

1.2 CENRAP

The inventory data were obtained from the CENRAP ftp site in March 2006 and reflect version BaseB of the CENRAP inventory.

1.2.1 Area Sources

- Files:
  - CENRAP_AREA_SMOKE_INPUT_ANN_STATES_081705.txt
  - CENRAP_AREA_MISC_SMOKE_INPUT_ANN_STATE_071905.txt
  - CENRAP_AREA_BURNING_SMOKE_INPUT_ANN_TX_ NELI_071905.txt
  - CENRAP_AREA_MISC_SMOKE_INPUT_NH3_MONTH_{MMM} _072805.txt where {MMM} is JAN, FEB, … DEC
  - CENRAP_AREA_SMOKE_INPUT_NH3_MONTH_{MMM} _071905.txt where {MMM} is JAN, FEB, … DEC
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing
- Note about area and nonroad source SMOKE processing for the CENRAP region: All area source inventories (both annual and month-specific) were processed in

one step through SMOKE. SMK_AVEDAY_YN was set to N, so seasonal profiles were used to apportion the annual inventories numbers by month. This setting was also used for the nonroad processing performed in a separate step. This was necessary since the month-specific files had zero in their 'average-day' column and the annual total column reflects the "monthly emissions as annual totals" as per header line. Therefore, seasonal profiles are used to apportion both the annual and month-specific files. As described below, we utilized the temporal profiles and cross-reference files generated by CENRAP. However, we did not verify that this approach indeed leads to the intended monthly allocation of ammonia and nonroad emissions.

1.2.2 Nonroad Sources

- Files:
  - CENRAP_NONROAD_SMOKE_INPUT_ANN_071305.txt
  - CENRAP_NONROAD_SMOKE_INPUT_MONTH_{MMM}_071305.txt where {MMM} is JAN, FEB, … DEC

1.2.3 Mobile Sources

- VMT/Speed files:
  - mbinv02_vmt_cenrap_ce.ida
  - mbinv02_vmt_cenrap_no.ida
  - mbinv02_vmt_cenrap_so.ida
  - mbinv02_vmt_cenrap_we.ida

1.2.4 Point Sources

- File: CENRAP_POINT_SMOKE_INPUT_ANNUAL_DAILY_072505.txt
- Fugitive dust correction: This was applied as county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing.

1.3 VISTAS

All VISTAS emission files were obtained from the Alpine Geophysics ftp site. They reflect version BaseG of the VISTAS inventory with the exception of fire emissions which reflect BaseF and BaseD. These files were downloaded between February and August, 2006.

1.3.1 Area Sources

- Files:

    - arinv_vistas_2002g_2453922_w_pmfac.txt
    - ida_ar_fire_2002_vistaonly_basef.ida
- Note: the header lines of these files indicate that the fugitive dust correction was already applied, so no further correction was performed.

1.3.2 Nonroad Sources

- Files:
    - nrinv_vistas_2002g_2453908.txt
    - marinv_vistas_2002g_2453972.txt

1.3.3 Mobile Sources

- VMT/Speed file: mbinv_vistas_02g_vmt_12jun06.txt

1.3.4 Point Sources

- Files:
    - Annual:
        - egu_ptinv_vistas_2002typ_baseg_2453909.txt
        - negu_ptinv_vistas_2002typ_baseg_2453909.txt
        - ptinv_fires_{MM}_typ.vistas.ida where {MM} is 01, 02, 03, etc. depending on the month; these annual point fire files were generated as part of the VISTAS BaseD inventory and were obtained in January 2005
    - Hour-specific:
        - pthour_2002typ_baseg_{MMM}_28jun2006.ems where {MMM} is jan, feb, mar, etc.
        - pthour_fires_{MM}_typ.vistas.ida where {MM} is 01, 02, 03, etc. depending on the month; these hourly point fire files were generated as part of the VISTAS BaseD inventory and were obtained in January 2005
- Note: No fugitive dust correction was performed for these files.

1.4 MRPO

MRPO emissions for SMOKE modeling were generated by Alpine Geophysics through a contract from MARAMA to convert the MRPO BaseK inventory from NIF to IDA format. The files were downloaded from the MARAMA ftp site **ftp.marama.org** (username mane-vu, password exchange) between April and June 2006.

1.4.1 Area Sources

- Files:
    - Annual:
        - arinv_mar_mrpok_2002_27apr2006.txt
        - arinv_other_mrpok_2002_20jun2006.txt
    - Month-specific:

        - arinv_nh3_2002_mrpok_{mmm}_3may2006.txt where {mmm} is jan, feb, etc.
        - dustinv_2002_mrpok_{mmm}_23may2006.txt where {mmm} is jan, feb, etc.
- Fugitive dust correction: This correction was performed only to the arinv_other_mrpok_2002_20jun2006.txt file using county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing.
- Note about area source SMOKE processing: SMOKE processing was performed separately for the annual and month-specific files. For the annual inventory processing, SMK_AVEDAY_YN was set to N, so seasonal profiles were used to apportion the annual inventories numbers by month. For the month-specific inventory processing, this variable was set to Y so that no seasonal profiles would be applied and the inventory numbers in the 'average day' column would be used. To save a SMOKE processing step, the annual "marine" inventory "arinv_mar_mrpok_2002_27apr2006.txt" was processed together with the annual "other area source" inventory "arinv_other_mrpok_2002_20jun2006.txt" even though it technically is part of the nonroad inventory.

1.4.2 Nonroad Sources

- Files: nrinv_2002_mrpok_{mmm}_3may2006.txt where {mmm} is jan, feb, etc.

1.4.3 Mobile Sources

- VMT/Speed file: mbinv_mrpo_02f_vmt_02may06.txt

1.4.4 Point Sources

- Files: ptinv_egu_negu_2002_mrpok_1may2006.txt
- Fugitive dust correction: This correction was performed only to the arinv_other_mrpok_2002_20jun2006.txt file using county-specific correction factors for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; the correction factor file gcntl.xportfrac.txt was obtained from EPA's CAIR NODA ftp site http://www.airmodelingftp.com (password protected).; this adjustment was performed using the SMOKE programs cntlmat and grwinven to generate an adjusted IDA inventory file used for subsequent SMOKE processing.

1.5 Canada

1.5.1 Area Sources

- File: AS2000_SMOKEready.txt obtained from ftp://ftp.epa.gov/EmisInventory/canada_2000inventory
- Fugitive dust correction: We applied "divide-by-four" correction for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; this adjustment was performed outside SMOKE with in-house Fortran programs. No county/province-specific correction factors were available for Canada

1.5.2 Nonroad Sources

- File: NONROAD2000_SMOKEready.txt obtained from ftp://ftp.epa.gov/EmisInventory/canada_2000inventory

1.5.3 Mobile Sources

- File: MOBILE2000_SMOKEready.txt obtained from ftp://ftp.epa.gov/EmisInventory/canada_2000inventory
- Fugitive dust correction: applied "divide-by-four" correction for SCC's listed at http://www.epa.gov/ttn/chief/emch/invent/index.html#dust; this adjustment was performed outside of SMOKE with in-house Fortran programs. No county/province-specific correction factors were available for Canada.

1.5.4 Point Sources

There has long been difficulty in obtaining an up-to-date Canadian criteria emissions inventory for point sources. This is due largely to confidentiality rights afforded to Canadian facilities. Thus far, the most recent inventory of Canadian point sources is rooted in the 1985 NAPAP data and is close to two decades old. Because there are a number of high emitting industrial facilities in southern Canada it is of particular importance to have a reasonably accurate inventory of these sources especially when modeling air quality over the Northeast and Midwest United States. Toward this end, an effort was made to obtain more recent Canadian point source data and incorporate it into an inventory database, which could then be used for the 2002 OTC air quality modeling.

Perhaps the most accurate and publicly accessible source of Canadian pollutant data is now available from the National Pollutant Release Inventory (NPRI) database. This database contains 268 substances. Facilities that manufacture, process or otherwise use one of these substances and that meet reporting thresholds are required to report these emissions to Environment Canada on an annual basis. The NPRI data are available at Environment Canada's website and can be found at the link http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm. The page hosts an on-line search engine where one can locate emissions by pollutant or location. In addition, the entire database is available for download as an MS Access or Excel file. The NPRI database contains

numerous pages with a rather comprehensive list of information. Detailed information is available about each facility, including location, activity and annual emissions. In addition, facilities having stacks with a height of 50 meters or more are required to report stack parameters.

Unfortunately, one of the limitations of the NPRI database for modeling purposes is that the data are only available at the facility level. Emissions models require process level information, so in order to use this data, a few generalizations had to be made. Each facility has a Standard Industrial Classification (SIC) code associated with it; however, emissions models require Source Classification Codes (SCC's). SCC's are of critical importance as the emissions models use these codes for assignment of temporal and speciation profiles. SIC codes describe the general activity of a facility while SCC codes describe specific processes taking place at each facility. While no direct relationship exists between these two codes, a general albeit subjective association can be made.

For the purposes of creating a model-ready inventory file it was necessary to obtain the whole NPRI database. After merging all the necessary components from the NPRI database required in the SMOKE inventory file, the SIC code from each facility was examined and assigned an SCC code. In most cases, only a SCC3 level code was assigned with confidence. While this is admittedly a less than desirable process, it does allow for the use of the most recent emissions from the NPRI database to be used in modeling. Furthermore, having some level of SCC associated with these emissions will ensure that they will be assigned a temporal and speciation profile by the model, other than the default. Once the model-ready inventory file was developed, it was processed through SMOKE.

2. Mobile6 Processing

2.1 MANE-VU

2.1.1 Mobile6 input files

- Month-specific input files were prepared by PECHAN and NESCAUM and were downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar
- Added the line "REBUILD EFFECTS :0.10" to each file before the SCENARIO record to override the Mobile6 default setting of 0.9 (90%) for the "chip reflash" effectiveness

2.1.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files were prepared by PECHAN and NESCAUM and were downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar

2.1.3 Temperature averaging

- Following the setting in the MANEVU_2002_mvref.txt files, the following procedures were used by SMOKE for temporal and spatial temperature averaging in the calculation of emission factors:
    - Spatial averaging: temperatures were averaged over all counties that share a common reference county (i.e. Mobile6 input file)
    - Temporal averaging for May – September emissions processing: no temporal averaging was used, i.e. day-specific temperatures were used to calculate emission factors for each day.
    - Temporal averaging for non-summer-months emissions processing: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

2.2 CENRAP

2.2.1 Mobile6 input files

- Mobile6 input files for the CENRAP region for January and July were contained in the files central_M6_{MMM}.zip, north_M6_{MMM}.zip, south_M6_{MMM}.zip, west_M6_{MMM}.zip where {MMM} is either jan or jul. July input files were used for April – September processing, while January input files were used for the remaining months
- All files were downloaded from the CENRAP ftp site in March 2006.

2.2.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files were contained in the files central_M6_RD.zip, north_M6_RD.zip, south_M6_RD.zip, and west_M6_RD.zip. The SMOKE MCREF, MVREF, and MCODES files were contained in the file MOBILESMOKE_Inputs.zip. The MCREF and MVREF files were combined for the different regions (“central”, “east”, “west”, “north”)
- All files were downloaded from the CENRAP ftp site in March 2006.

2.2.3 Temperature averaging

- The following procedures were used by SMOKE for temporal and spatial temperature averaging in the calculation of emission factors according to the setting in the mvref files:
    - Spatial averaging: no spatial averaging of temperatures, i.e. the temperatures for the reference county is used to calculate emission factors for all counties that share this reference county (i.e. Mobile6 input file)
    - Temporal averaging: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

2.3 VISTAS

2.3.1 Mobile6 input files

- Month-specific Mobile6 input files were obtained from the Alpine Geophysics ftp site in July 2006. They reflect version BaseG of the VISTAS inventory.

2.3.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files utilized were obtained from the Alpine Geophysics ftp site in July 2006. They reflect version BaseG of the VISTAS inventory.

2.3.3 Temperature averaging

- The following procedures were used by SMOKE for the temporal and spatial temperature averaging in the calculation of emission factors according to the setting in the mvref_baseg.36k.ag.txt file:
    - Spatial averaging: temperatures averaged over all counties that share a common reference county (i.e. Mobile6 input file)
    - Temporal averaging: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

2.4 MRPO

2.4.1 Mobile6 input files

- Month-specific Mobile6 input files for SMOKE modeling were generated by Alpine Geophysics through a contract from MARAMA. They are based on version BaseK of the MRPO inventory. The files were downloaded from the MARAMA ftp site **ftp.marama.org** (username mane-vu, password exchange) in May 2006.

2.4.2 SMOKE/Mobile6 auxiliary files

- SMOKE/Mobile6 auxiliary files for SMOKE modeling were generated by Alpine Geophysics through a contract from MARAMA. They are based on version BaseK of the MRPO inventory. The files were downloaded from the MARAMA ftp site **ftp.marama.org** (username mane-vu, password exchange) in May 2006.

2.4.3 Temperature averaging

- The following procedures were used by SMOKE for the temporal and spatial temperature averaging in the calculation of emission factors according to the setting in the mvreg_mrpo_basek.txt file:
    - Spatial averaging: temperatures averaged over all counties that share a common reference county (i.e. Mobile6 input file)

- Temporal averaging: Temporal averaging over the duration of the episode (i.e. the entire month, see introduction) was used, i.e. monthly average temperatures were used to calculate the emission factors.

3. Biogenic Emission Processing

Hourly gridded biogenic emissions for the 12 km and 36 km modeling domains were calculated by BEIS3.12 through SMOKE, using MCIP-processed MM5 fields for temperature ("TA", layer-1 temperature), solar radiation ("RGRND"), surface pressure ("PRES"), and precipitation ("RN" and "RC"). A 'seasonal switch' file was generated by the SMOKE utility metscan to determine whether winter or summer emission factors should be used for any given grid cell on any given day. Winter emission factors are used from January 1st through the date of the last frost and again from the data of the first frost in fall through December 31st. Summer emission factors are used for the time period in between. This calculation is performed separately for each grid cell.

4. Temporal Allocation

4.1 MANE-VU

4.1.1 Area and nonroad sources

- Generated as part of the MANE-VU version 1 inventory
- amptpro.m3.us+can.manevu.030205.txt
- amptref.m3.manevu.012405.txt
- downloaded from **ftp.marama.org** (username mane-vu, password exchange) in January 2005

4.1.2 Mobile sources

- MANEVU_2002_mtpro_02022006_addCT.txt
- MANEVU_2002_mtref_02022006_addCT.txt
- prepared by PECHAN and NESCAUM and downloaded from http://bronze.nescaum.org/Private/junghun/MANE-VU/onroad_ver3_update/MANEVU_V3_update.tar

4.1.3 Point Sources

- Based on the same files as for the MANE-VU area and nonroad temporal files listed above, but added the CEM-based 2002 state-specific temporal profiles and cross-references for EGU sources for the MANE-VU states that were generated by VISTAS for their BaseD modeling and obtained in February 2005.
- No CEM-based hour-specific EGU emissions were utilized

4.2 CENRAP

The following temporal profiles and cross-reference files were used:

- Area and nonroad sources:
    - amptpro.m3.us+can.cenrap.010605_incl_nrd.txt
    - amptref.m3.cenrap.010605_add_nh3_and_nrd.txt
- Mobile sources:
    - mtpro.cenrap.v3.txt
    - mtref.cenrap.v3.txt
- Point sources:
    - ptpro.{QQ}.cenrap_egus_cem.00-03avg.121205.txt where {QQ} is Q1 for January/February/March, Q2 for April/May/June, etc.
    - ptref.{QQ}.cenrap_egus_cem.00-03avg.121205.txt where {QQ} is Q1 for January/February/March, Q2 for April/May/June, etc.
- All files were downloaded from the CENRAP ftp site in March 2006.

4.3 VISTAS

The following month-specific temporal profiles and cross-reference files were used:

- Area and nonroad sources:
    - atpro_vistas_basef_15jul05.txt
    - atref_vistas_basef_15jul05.txt
- Mobile sources:
    - mtpro_vistas_basef_04jul05.txt
    - mtref_us_can_vistas_basef_04jul05.txt
- Point sources:
    - ptpro_typ_{MMM}_vistasg_28jun2006.txt where {MMM} is jan, feb, mar, etc.
    - ptref_typ_vistas_baseg_28jun2006.txt
- These files were obtained from the Alpine Geophysics ftp site. They reflect version BaseG of the VISTAS inventory for the point source allocation files and version BaseF for the area, nonroad, and mobile source allocation files. These files were downloaded between February and July, 2006.

4.4 MRPO

The following month-specific temporal profiles and cross-reference files were used for all source categories:

- amptpro_typ_us_can_{MMM}_vistas_27nov04.txt where {MMM} is jan, feb, mar, etc.
- amptref_2002_us_can_vistas_17dec04.txt
- These files were obtained from VISTAS in January 2005 and reflect their BaseD modeling. No updated temporal profiles or cross-reference files were developed for use with the MRPO BaseK inventory.

4.5 Canada

For Canada, the SMOKE2.1 default temporal profiles and cross-reference files (amptpro.m3.us+can.txt and amptref.m3.us+can.txt) were utilized.

5. Speciation

The same speciation profiles (gspro.cmaq.cb4p25.txt) and cross-references (gsref.cmaq.cb4p25.txt) were utilized for all regions and all source categories. Different versions of these files were obtained (SMOKE2.1 default, EPA-CAIR modeling, VISTAS, CENRAP and MANE-VU) and compared. After comparing the creation dates and header lines of these files, it was determined that the EPA-CAIR and MANE-VU files had the most recent updates, and consequently the final speciation profile and cross-reference files used for all regions and source categories was based on the EPA-CAIR files with the addition of MANE-VU specific updates.

6. Spatial Allocation

6.1 U.S.

The spatial surrogates for the 12km domain were extracted from the national grid 12km U.S. gridding surrogates posted at EPA's website at
http://www.epa.gov/ttn/chief/emch/spatial/newsurrogate.html
The gridding cross-references were also obtained from this website, but for the processing of MANE-VU area source emissions, MANE-VU specific cross-reference entries posted on the MARAMA ftp site were added.

6.2 Canada

The spatial surrogates for Canadian emissions for the 12km domain were extracted from the national grid 12km Canadian gridding surrogates posted at EPA's website at
http://www.epa.gov/ttn/chief/emch/spatial/newsurrogate.html
The gridding cross-references were also obtained from this website.

Reference:

Pechan: (2006) Technical Support document for 2002 MANE-VU SIP Modeling inventories, version 3. Prepared by E. H. Pechan & Associates, Inc. 3622 Lyckan Parkway, Suite 2005, Durham, NC 27707.

K-4: $PM_{2.5}$ Modeling using SMOKE/CMAQ

TSD-2c

$PM_{2.5}$ modeling using the SMOKE/CMAQ system over the Ozone Transport Region (OTR)

Bureau of Air Quality Analysis and Research

Division of Air Resources

New York State Department of Environmental Conservation

Albany, NY 12233

February 1, 2006

Air Quality Modeling Domain

The modeling domain utilized in this application represented a sub-set of the inter-RPO's continental modeling domain that covered the entire 48-state region with emphasis on the Ozone Transport Region. The OTC modeling domain at 12km horizontal mesh is displayed in Figure 1 is part of the 36km continental domain that is designed to provide boundary conditions (BCs). The particulars of the two modeling domains are:

The 36km domain covered the continental US by a 149 by 129 mesh in the east-west and north-south directions, respectively. The domain is based on Lambert Conformal Projection with the center at (97ºW 40ºN) and parallels at 33ºN and 45ºN. As evident from Figure 1, the 12km domain utilized in this analysis covers most areas of the eastern US and has 172 by 172 mesh in the horizontal. Both domains utilize 22 layers in the vertical extending to about 16km with 16 layers placed within the lower 3km.

Photochemical Modeling -- CMAQ

The CMAQ (version 4.5.1) with CB4 chemistry, aerosol module for $PM_{2.5}$ and RADM cloud scheme was utilized in this study. Photochemical modeling was performed with the CCTM software that is part of the CMAQ modeling package. Version 4.5.1 of this modeling software was obtained from the CMAS modeling center at http://www.cmascenter.org. The following module options were used in compiling the CCTM executable:

- Horizontal advection: yamo
- Vertical advection: yamo
- Horizontal diffusion: multiscale
- Vertical diffusion: eddy
- Plume-in-Grid: non operational
- Gas phase chemical mechanism: CB-4
- Chemical solver: EBI
- Aerosol module: aero3
- Process analysis: non operational

The following computational choices were made during compilation:

- Compiler version: PGI 6.0
- Fortran compiler flags:-Mfixed -Mextend -Bstatic -O2 -module ${MODLOC} -I.
- C compiler flags: -v -O2 -I${MPICH}/include
- IOAPI library: version 3.0
- NETCDF library: version 3.6.0
- Parallel processing library version: mpich 1.2.6
- Static compilation on 32-bit system

The following choices were made for running the executable:

- Number of processors: 8
- Domain decomposition for parallel processing: 4 columns, 2 rows
- Number of species written to the layer-1 hourly-average concentration output (ACONC) file: 39 (O3, NO, CO, NO2, HNO3, N2O5, HONO, PNA, PAN, NTR, NH3, SO2, FORM, ALD2, PAR, OLE, ETH, TOL, XYL, ISOP, ASO4I, ASO4J, ANO3I, ANO3J, ANH4I, ANH4J, AORGAI, AORGAJ, AORGPAI, AORGPAJ, AORGBI, AORGBJ, AECI, AECJ, A25I, A25J, ACORS, ASEAS, ASOIL)
- Each daily simulation was performed for 24 hours starting at 05:00 GMT (00:00 EST)

The following postprocessing steps were performed using utility tools from the "ioapi" software package obtained from http://www.baronams.com/products/ioapi/AA.html#tools:

- Extract and combine the following species for each hour for the first 16 model layers from the full 3-D instantaneous concentration output file: O3, CO, NO, NO2, NOY_1 (=*NO + NO2 + PAN + HNO3*), NOY_2 (=*NO + NO2 + PAN + HNO3 + HONO + N2O5 + NO3 + PNA + NTR*), HOX (=*OH + HO2*), VOC (=*2*ALD2 + 2*ETH + FORM + 5*ISOP + 2*OLE + PAR + 7*TOL + 8*XYL*), ISOP, PM2.5 (=*ASO4I + ASO4J + ANO3I + ANO3J + ANH4I + ANH4J + AORGAI + AORGAJ + 1.167*AORGPAI + 1.167*AORGPAJ + AORGBI + AORGBJ + AECI + AECJ + A25I + A25J*), PM_SULF (=*ASO4I + ASO4J*), PM_NITR (=*ANO3I + ANO3J*), PM_AMM (=*ANH4I + ANH4J*), PM_ORG_SA (=*AORGAI + AORGAJ*), PM_ORG_PA (=*1.167*AORGPAI + 1.167*AORGPAJ*), PM_ORG_SB(=*AORGBI + AORGBJ*), PM_ORG_TOT (=*AORGAI + AORGAJ + 1.167*AORGPAI + 1.167*AORGPAJ + AORGBI + AORGBJ*), PM_EC (=*AECI + AECJ*), PM_OTH (=*A25I + A25J*), PM_COARS (=*ACORS + ASEAS + ASOIL*), SO2, HNO3, NH3, H2O2
- Extract all species for all model layers for the last hour of each daily instantaneous concentration output file to enable "hot" restarts of modeling simulations
- Create daily files of hourly running-average 8-hr ozone concentrations with time stamps assigned to the first hour of the averaging interval

The following files are archived on LTO2 computer tapes (each tape holds approximately 200 Gb of data) for each day:

- Aerosol/visibility file
- Layer-1 hourly-average concentration output file (contains 39 species)
- Dry deposition file
- Wet deposition file
- Extracted 16-layer species file
- Restart file (last hour of full 3-D instantaneous concentration file)
- Hourly 8-hr concentration file

Photolysis Rates

One of the inputs to CMAQ is the photolysis rates. In this study, photolysis rate lookup tables were generated for each day of 2002 with the JPROC software that is part of the CMAQ modeling package. This software was obtained from the CMAS modeling center at http://www.cmascenter.org. Rather than using climatological ozone column data, daily ozone column measurements from the NASA Earthprobe TOMS instrument were downloaded from ftp://toms.gsfc.nasa.gov/pub/eptoms/data/ozone/Y2002/ and used as input to the JPROC processor. It should be noted that TOMS data were missing for the time period from August 3 – 11, 2002. The missing period was filled as follows-- TOMS data file for August 2 was used as JPROC input for August 3rd through August 7th, and the TOMS data file for August 12th was used as JPROC input for August 8th through August 11th.

Boundary Conditions (BCs)

The boundary conditions for the 12km grid were extracted from the 36km CMAQ simulation. The 36km simulation utilized boundary conditions that were based on a one-way nest approach to GEOS-CHEM global model outputs (Moon and Byun 2004, Baker 2005). As stated above, the intent of the 36km CMAQ simulation was to provide the BCs for the 12km model that would be more reflective of the emissions and meteorology rather than to use either clean or arbitrary pollutant fields. Also, in this study the CMAQ simulations utilized a 15-day ramp-up period, thereby minimizing the propagation of the boundary fields into the areas of concern. A report on the setup and application of the 36km CMAQ and the extraction of the BCs is available from NYSDEC.

Meteorological data

The meteorological data for this study was based on MM5 modeling (see Meteorological Modeling, 2007). The MM5 fields are then processed by MCIP version 3.0, a utility available as part of the CCTM software from CMAS Modeling Center (see http://www.cmascenter.org) to provide CMAQ model-ready inputs.

Emissions

The emissions data for 2002 were generated by individual states within the OTR and were assembled and processed through the Mid Atlantic Northeast Visibility Union (MANE-VU), a Regional Planning Organization (RPO). These emissions were then processed by NYSDEC using SMOKE processor to provide CMAQ compatible inputs (Anthro-Emissions 2006). The 2002 emissions for the non-OTR areas within the modeling domain were obtained from the corresponding RPOs and were processed using SMOKE, in a manner similar to that of the OTR.emissions. Details of this processing are outlined in the report (Pechan 2007), and the hourly biogenic emissions (Bio-Emissions, 2006)

CMAQ simulations

CMAQ simulations were performed using the one-way nesting approach in which we perform the continental CMAQ simulation at 36km grid spacing. For this simulation we utilized clean initial conditions with boundary conditions extracted from the simulation of GEOS-CHEM global chemical model. The interface program used in this application was developed by University of Huston (Moon and Byun 2004), which was applied to obtain hourly 36km boundary concentrations from GEOS-CHEM outputs. The CMAQ 36km simulation was initiated from December 15, 2001 with the first 15 days as spin up period and terminated on December 31, 2002. The simulation utilized the 2002 emissions data available from the RPOs and 2002 MM5 meteorological fields developed by the University of Maryland (TSD-1a). The hourly boundary fields for the 12km CMAQ domain were obtained by application of BCON program to the 3-D concentration fields generated by the 36km CMAQ simulation.

The 12km simulations for both base and future year were assigned the boundary conditions based on the 36km CMAQ simulation and clean initial conditions. The annual simulation was parsed out between different member states or their contractors of the OTR, so as to expedite the process of completing the simulation in a limited time. The approach used is as follows: The annual simulation was parsed out into five parts and each modeling center identified below initiated and completed the simulation, extracted the outputs which were then combined to provide the annual simulation. There was considerable exchange of information in the setup and execution of the modeling system between the centers using benchmark runs to ensure consistency and uniformity between the centers. The process was followed both for the base year 2002 and for the future year 2009. Details on CMAQ setup and run scripts are available from NYSDEC.

Modeling Center	Simulation period	Analysis period
MDE/UMD	Dec 15, 2001 to Feb 28, 2002	Jan 01, 2002 to Feb 28, 2002
NJDEP/Rutgers	Feb 15, 2002 to May 14, 2002	Mar 01, 2002 to May 14, 2002
NYSDEC	May 01, 2002 to Sep 30, 2002	May 15, 2002 to Sep 30, 2002
VA DEQ	Sep 15, 2002 to Oct 30, 2002	Oct 01, 2002 to Oct 30, 2002
NESCAUM	Oct 15, 2002 to Dec 31, 2002	Nov 01, 2002 to Dec 31, 2002

References

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Bio-Emissions: (2006) Processing of Biogenic Emissions for OTC/MANE-VU Modeling. TSD-1b

Anthro-Emissions: (2006) Emission Processing for the Revised 2002 OTC Regional and Urban 12 km Base Case Simulations. TSD-1c

Figure 1 Display of 36- and 12km air quality modeling domains.