

APPENDIX I

**Lake Michigan Air Directors Consortium (LADCO)
Round 5 Modeling Technical Support Document
(Round 5 Photochemical Modeling Based on “Base M”
Emission Inventory, revised version of “Base K”)**

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Base M Strategy Modeling: Emissions (Revised)

The purpose of this document is to summarize the emission estimates prepared for LADCO's latest (Base M) 2005 base year and 2008, 2009, 2012, and 2018 future year modeling. Base year emissions by state and source sector for Base K (2002) and Base M (2005) are compared in Figure 1. A more detailed state and source sector summary is provided in Attachment 1. Additional emission reports are available on the LADCO website: http://www.ladco.org/tech/emis/r5/round5_reports.htm.

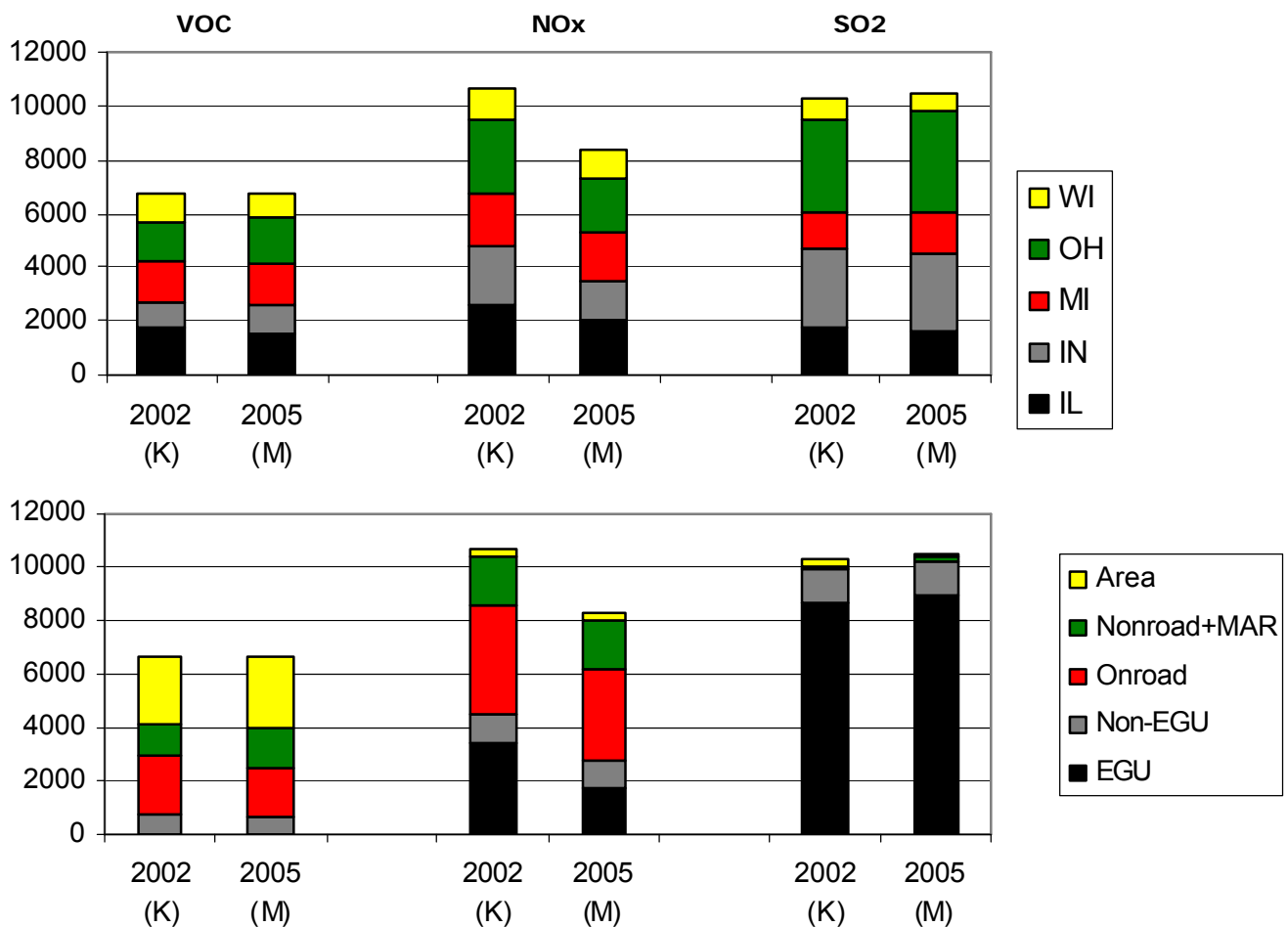


Figure 1. Base K and Base M Emissions for 5-State LADCO Region: VOC, NOx, and SO2 (TPD, July weekday)

Base Year Emissions

In mid-2006, LADCO completed modeling analyses for a 2002 base year and several future year control strategies (LADCO, 2006a and LADCO, 2006b). Following those analyses, a decision was made to conduct additional modeling using a more current base year (2005). Examination of multiple base years provides for a more complete technical assessment. All modeling was conducted in accordance with USEPA modeling guidelines (USEPA, 2007).

For on-road, ammonia, and biogenic sources, 2005 emissions were estimated by emission models. For other sectors in the LADCO States, 2005 emissions were either supplied by a contractor (railroads and commercial marine) or by the States (point sources, area sources, and aircraft). For other sectors in non-LADCO States, a contractor obtained the latest base (2002) and future year emission files (2009, 2018) from the other Regional Planning Organizations (RPOs) (Alpine, 2007a). Specifically, the following versions of these emissions files were used: MANE-VU: Version 3.1, WRAP: Pre2002d, CENRAP: Base F, and VISTAS: Base F. The 2005 emissions were then estimated by linearly interpolating between the 2002 and 2009 emissions.

Further discussion of the development of the 2005 base year emissions is provided below:

On-Road: CONCEPT was run by a contractor using transportation data (e.g., VMT and vehicle speeds) for 24 networks supplied by the state and local planning agencies in the LADCO States and Minnesota (Environ, 2008). These data were first processed with T3 (Travel Demand Modeling [TDM] Transformation Tool) to provide input files for CONCEPT. For some networks, the VMT outputs from T3 were adjusted to match 2005 HPMS data. CONCEPT was then run with meteorological data for a July and January weekday, Saturday, and Sunday (July 15 – 17 and January 16 – 18) to produce link-specific, hourly emission estimates. A spatial plots of emissions for July 15 are provided in Figure 2.

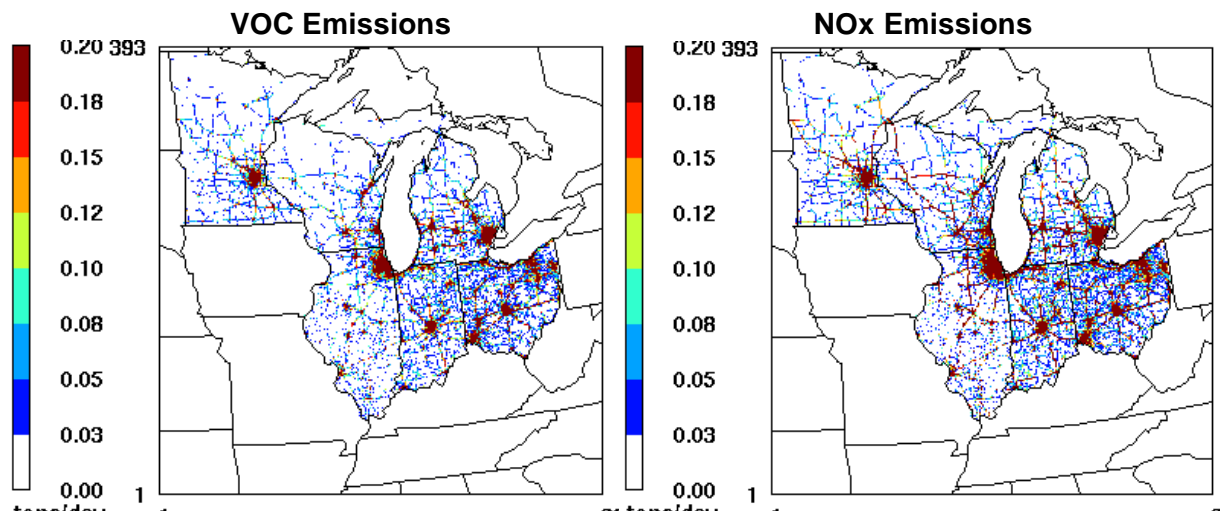


Figure 2. July 15, 2005 motor vehicle emissions for VOC (left) and NOx (right)

For the non-LADCO States, CONCEPT was run by a contractor using RPO-based HPMS county-level data (2002 and 2009) and MOBILE6 inputs (2002) compiled by another contractor (Environ, 2008). HPMS VMT for 2005 were generated by linearly interpolating between the 2002 and 2009 data. The 2002 MOBILE6 inputs were used for the 2005 modeling, with a few adjustments (e.g., fuel sulfur content was set to 30 ppm, as required by the Tier 2/low sulfur regulations). Meteorological data for a July and January weekday, Saturday, and Sunday (July 15 – 17 and January 16 – 18) were used.

For other months (for both LADCO and non-LADCO States), weekday, Saturday, and Sunday emissions were linearly interpolated based on the January and July emissions.

Off-Road: NMIM2005 was run by Grant Hetherington (Wisconsin DNR) to produce emissions for most off-road sectors for the LADCO States plus Minnesota, Iowa, and Missouri. Improved model inputs included local data for construction and agricultural equipment prepared by a contractor were incorporated (E.H. Pechan, 2004), and 2005 gasoline parameters. (Note, model updates prepared by AIR to address evaporative emissions were not included.)

EMS was run by LADCO using Grant Hetherington's NMIM2005 data and, for the non-LADCO States, using emission files supplied by Alpine based on data from the other RPOs to produce weekday, Saturday, and Sunday emissions for each month.

Additional off-road sectors (i.e., commercial marine, aircraft, and railroads [MAR]) were handled separately. Aircraft emissions were supplied by the LADCO States. Updated information for railroads and commercial marine for the LADCO States was prepared by a contractor (Environ, 2007a and Environ 2007b). Table 1 compares the new 2005 emissions with the previous 2002 emission estimates. The new 2005 emissions reflect substantially lower commercial marine emissions and lower locomotive NOx emissions.

EMS was run by LADCO using the contractor and state data and, for the non-LADCO States, using emission files supplied by Alpine based on data from the other RPOs to produce weekday, Saturday, and Sunday emissions for each month.

Table 1. Locomotive and Commercial Marine Emissions for 2002 and 2005 Base Year

	Railroads (TPY)			Commercial Marine (TPY)	
	2002	2005		2002	2005
VOC	7,890	7,625		1,562	828
CO	20,121	20,017		8,823	6,727
NOx	182,226	145,132		64,441	42,336
PM	5,049	4,845		3,113	1,413
SO2	12,274	12,173		25,929	8,637
NH3	86	85		----	----

Area: EMS was run by LADCO using 2005 data supplied by the LADCO States and, for the non-LADCO States, using emission files supplied by Alpine based on data from the other RPOs to produce weekday, Saturday, and Sunday emissions for each month. Special attention was given to two source categories: industrial adhesive and sealant solvent emissions and outdoor wood boilers.

Industrial Adhesives and Sealants: The NEI shows this to be a large VOC emissions category in the LADCO States (i.e., 50,000 TPY). USEPA subsequently determined that "(f)or the Region V states, we no longer believe that there are any activities in the Industrial Adhesives and Sealants category (SCC 2440020000) that have not been inventoried either in the point source Industrial Adhesives and Sealants category or under the Consumer and Commercial Adhesives and Sealants nonpoint category (SCC 2460600000 - all adhesives and sealants)." (USEPA, 2007b). Consequently, this category was omitted from the 2005 regional emissions inventory.

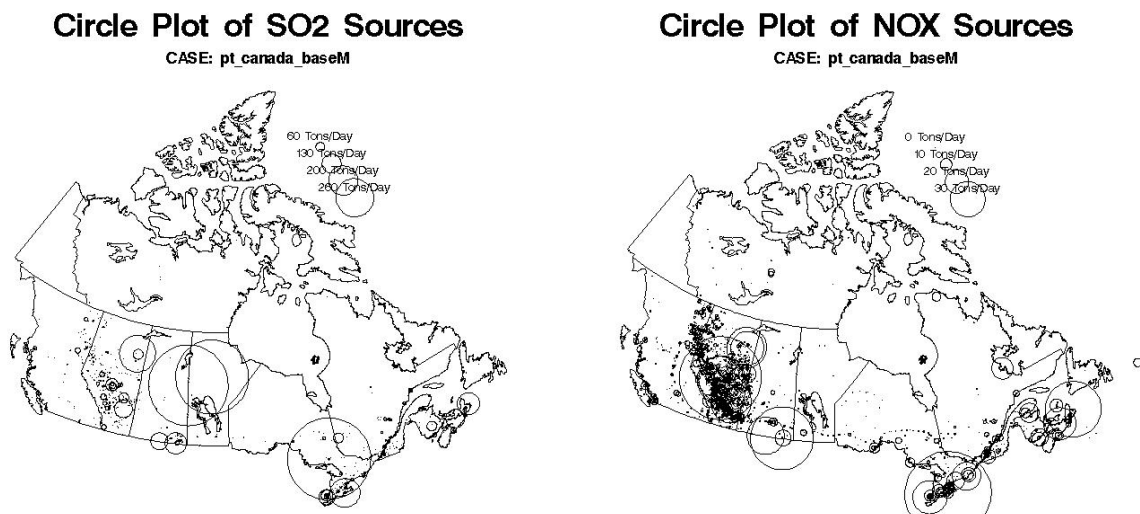
Outdoor Wood Boilers: Over the past several years, the installation and operation of outdoor wood boilers for residential use has increased dramatically in many northern states. Relying on an emission estimation methodology prepared by Bart Sponseller (WDNR, 2006), emissions were calculated by the other states for this category.

EGU Point:EMS was run by LADCO using 2005 data supplied by the LADCO States and, for the non-LADCO States, using emission files supplied by Alpine based on data from the other RPOs to produce weekday, Saturday, and Sunday emissions for each month. 2005 EGU emissions were temporalized for modeling purposes using profiles prepared by Scott Edick (Michigan DEQ) based on CEM data for the period 2004-2006. Profiles were generated for monthly weekday/Saturday/Sunday based on the median hourly emissions for that month, day, and hour of the day for the three years. Over 90% of NOX and SO2 emissions from EGUs in the LADCO states were assigned profiles. In non-Ladco states, the annual EGUs emissions were replaced with the 2005 sum of hourly emissions for all 365 days.

Non-EGU Point: EMS was run by LADCO using 2005 data supplied by the LADCO States and, for the non-LADCO States, using emission files supplied by Alpine based on data from the other RPOs to produce weekday, Saturday, and Sunday emissions for each month. EGUs were removed from this point source file.

Other improvements to the base year inventory included:

Canadian Emissions: Previous modeling inventories for Canadian sources were flawed due to problems with emissions (e.g., LADCO inventories omitted ammonia emissions) or stack parameters (e.g., VISTAS inventories failed to include proper stack parameters, resulting in emissions getting dumped in the surface layer of the model). For Base M, Scott Edick (Michigan DEQ) processed the 2005 Canadian National Pollutant Release Inventory (NPRI – see <http://www.ec.gc.ca/pdb/npri/>). Specifically, a subset of the NPRI data which are relevant to the air quality modeling were reformatted. A number of emission reports are available on the LADCO website (<http://www.ladco.org/tech/emis/basem/canada/index.htm>). Circle plot of point source emissions are presented in Figure 3.



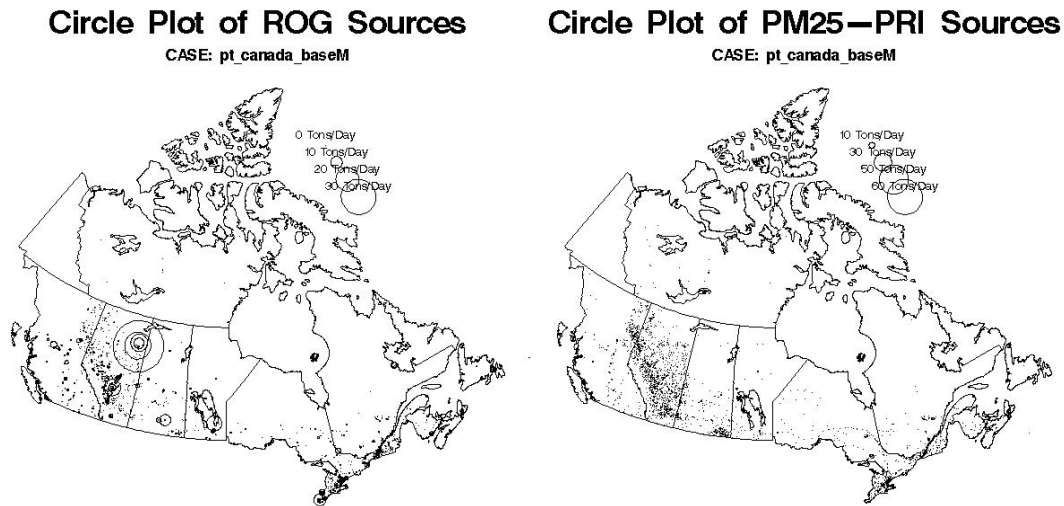


Figure 3. Base year emission plots for Canada

Biogenic Emissions: A contractor provided an updated version of the CONCEPT/MEGAN (Model of Emissions of Gases and Aerosols from Nature – see <http://bai.acd.ucar.edu/Megan/>) biogenics model, which was used to produce base year biogenic emission estimates (Alpine, 2007b). MEGAN includes functions for soil moisture plant stress, a more complete canopy model, full plant growth cycle emissions calculations, and state of the science emission rates.

Subsequent to deliver of the updated CONCEPT/MEGAN code, it was found that more recent data sets and model formulations were available. For the purposes of the Round 5 modeling, LADCO simply scaled the emission estimates from the updated code to reflect these newer data. This resulted in lower emissions for several organic aerosol species and NO_x

Compared to the EMS/BIOME emissions used for Base K, there is more regional isoprene with MEGAN (see Figure 4). Also, with the secondary organic aerosol updates to the CAMx air quality model, Base M includes emissions for monoterpenes and sesquiterpenes, which are precursors of secondary PM_{2.5} organic carbon mass.

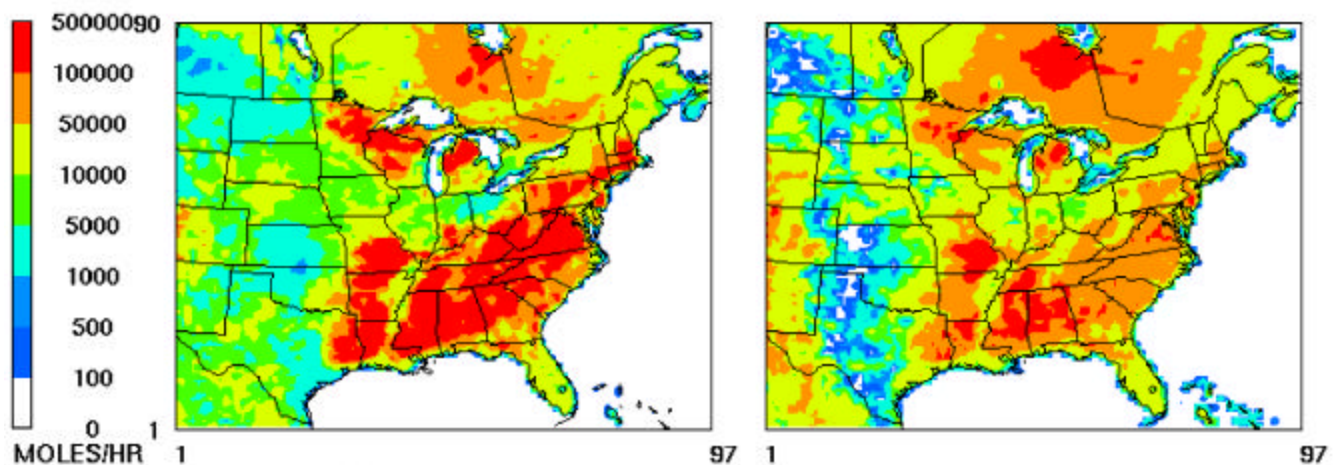


Figure 4. Isoprene emissions for Base M (left) v. Base K (right)

Ammonia Emissions: The CMU-based 2002 (Base K) annual ammonia emissions were projected to 2005 using growth factors from the Round 4 emissions modeling. These annual emissions were then adjusted by applying monthly temporal factors based on the process-based ammonia emissions model (http://www.conceptmodel.org/nh3/nh3_index.html). The model was run for the following list of model farms using 2002 meteorological data: Dairy (California, Wisconsin), Swine (Iowa, Wisconsin), and Beef (Texas, Washington, Wisconsin). Because the model was not complete for the poultry housing model, swine was use in its place given that both use confined operations.

Each model farms' emissions were used to generate monthly average day emissions and a monthly profile. The profiles were applied to geographies most associated with that farm type (e.g., all LADCO states used the Wisconsin farm results). The following figure shows the daily variation in emissions for the model farms.

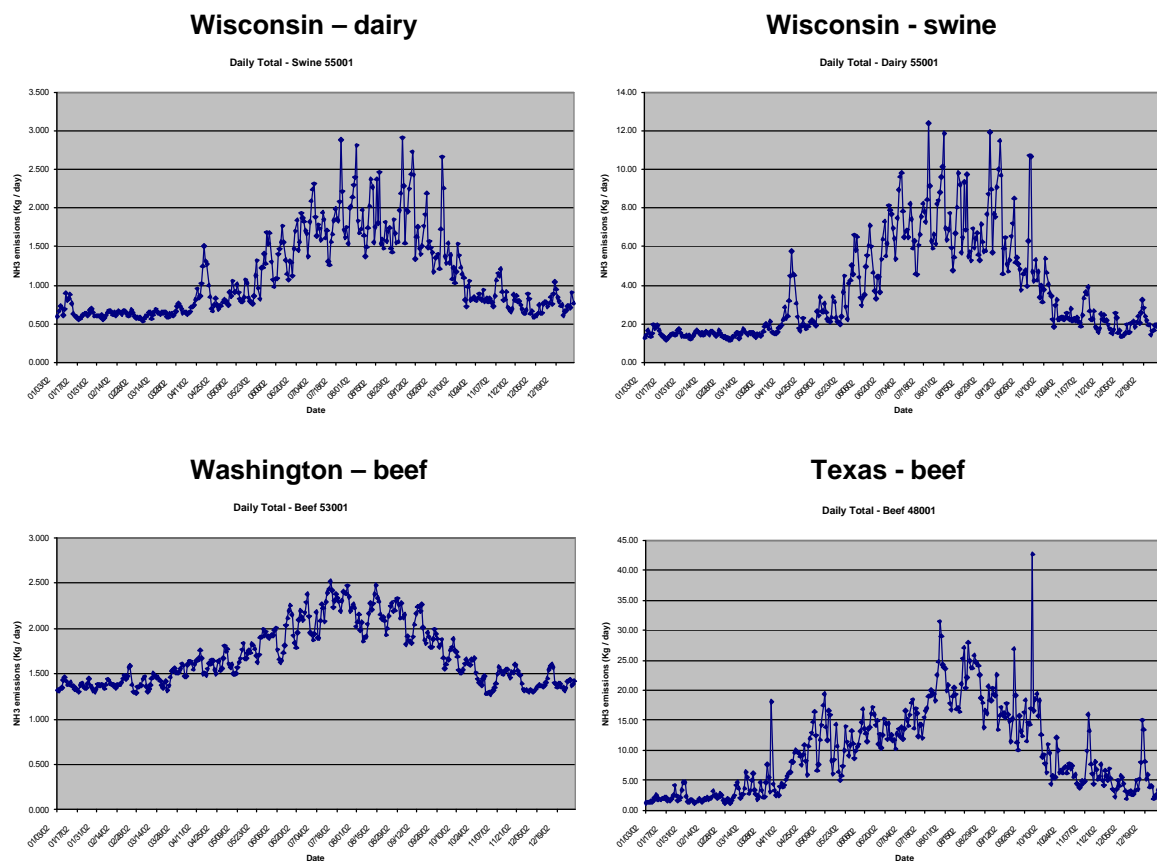


Figure 5. Daily emissions for 2002 for various model farms

A plot of the resulting average daily emissions by state and month is provided in Figure 6.

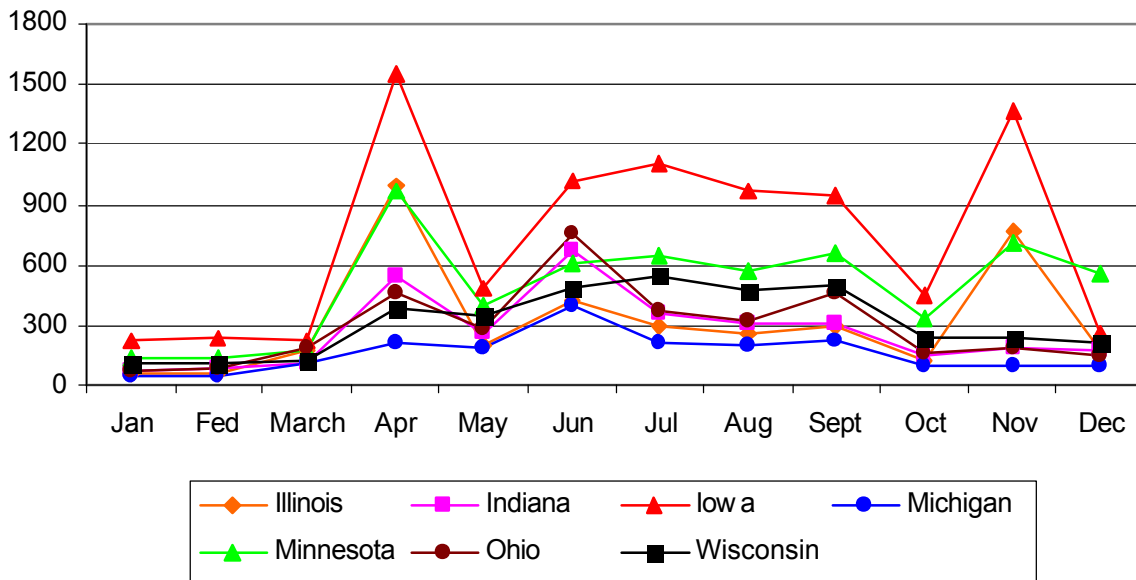


Figure 6. Average daily ammonia emissions for Midwest States by month for 2005

Fires: For Base K, a contractor (EC/R, 2004) developed a 2001, 2002, and 2003 fire emissions inventory for eight Midwest States (five LADCO states plus Iowa, Minnesota, and Missouri), including emissions from wild fires, prescribed fires, and agricultural burns. Projected emissions were also developed for 2010 and 2018 assuming “no smoke management” and “optimal smoke management” scenarios. An early model sensitivity run showed very little difference in modeled $PM_{2.5}$ concentrations. Consequently, the fire emissions were not included in subsequent modeling runs (i.e., they were not in the Base K or Base M modeling inventories).

Future Year Emissions

Complete emission inventories were developed for two future years: 2009 and 2018¹. Source sector emission summaries for the base years (2002 – Base K and 2005 – Base M) and future years are shown in Figure 7. A more detailed state and source sector summary is provided in Attachment 1. Additional emission reports are available on the LADCO website (http://64.27.125.175/tech/emis/r5/round5_reports.htm).

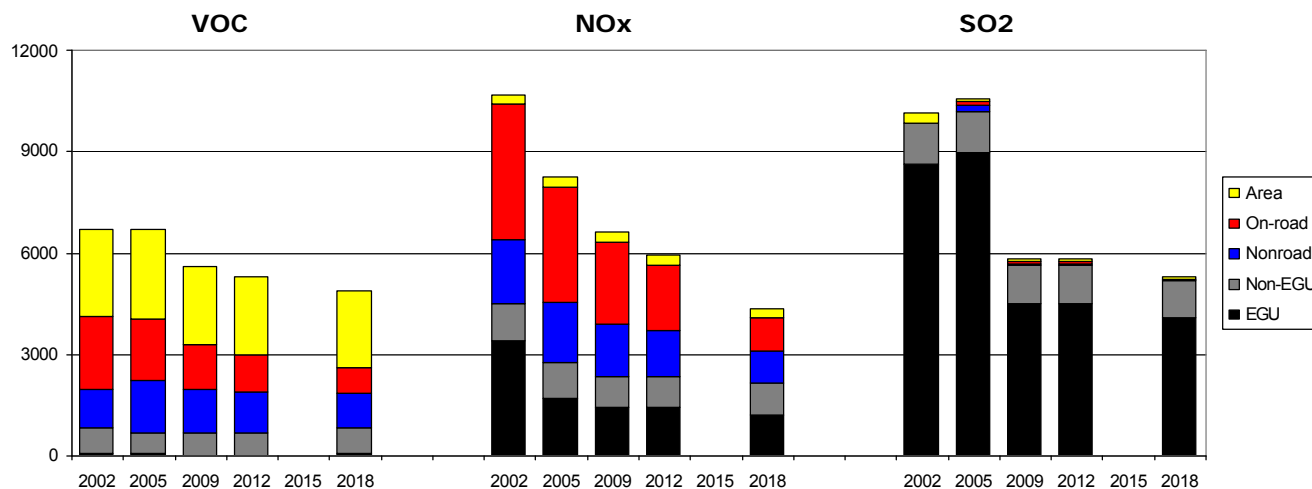


Figure 7. Base year and future year emissions for 5-State LADCO Region (TPD, July weekday)

¹ A 2008 proxy inventory was prepared to support a preliminary 2008 modeling analysis to assess attainment for the basic nonattainment areas (i.e., for areas with a 2009 attainment date, the appropriate panning year is 2008). This inventory reflects the following assumptions:

On-road: scale 2005 base year emissions using the Base K 2002 – 2009 trend (except for the Cincinnati-Dayton area, where 2008 emissions were generated using CONCEPT and 2008 data supplied by the local planning agency)

Off-road and area: scale 2005 base year emissions using the Base K 2002-2009 trend

Point – EGU: use 2005 base year emissions, with slight adjustment (-10%)

Point – Non-EGU: use 2005 base year emissions (note: Base K 2002-2009 trend suggests little change)

Biogenics: use new 2005 base year emissions

A 2012 proxy inventory was prepared to support a preliminary 2012 modeling analysis to assess the effect of further emission reductions from existing controls. This inventory was derived by interpolating between 2009 and 2018 emissions for all sectors, except point sources (for which, the 2009 emissions were used).

For on-road, off-road, and EGU sources, the future year emissions were estimated by models (i.e., CONCEPT, NMIM2005, and IPM, respectively) and then processed by LADCO with EMS. For other sectors (area, MAR, and non-EGU point sources), the future year emissions for the LADCO States were derived by applying growth and control factors to the base year inventory. These factors were developed by a contractor (E.H. Pechan, 2007). Growth factors were based initially on EGAS (version 5.0), and were subsequently modified (for select, priority categories) by examining emissions activity data. For the non-LADCO States, future year emission files were supplied by Alpine based on data from the other RPOs. Due to a lack of information on future year conditions, the biogenic VOC and NO_x emissions, and all Canadian emissions were assumed to remain constant between the base year and future years.

A “base” control scenario was prepared for each future year based on the following “on the books” controls (E.H. Pechan, 2007):

On-Highway Mobile Sources

- Federal motor vehicle emission control program, low sulfur gasoline, and ultra-low sulfur diesel fuel
- Inspection/Maintenance programs (nonattainment areas)
- Reformulated gasoline (nonattainment areas)

Off-Highway Mobile Sources

- Federal control programs incorporated into NONROAD model (e.g., nonroad diesel rule), plus the evaporative Large Spark Ignition and Recreational Vehicle standards
- Heavy-duty diesel (2007) engine standard/Low sulfur fuel
- Federal railroad/locomotive standards
- Federal commercial marine vessel engine standards

Area Sources

- Consumer solvents
- AIM coatings
- Aerosol coatings
- Portable fuel containers

Power Plants

- Title IV (Phases I and II)
- NO_x SIP Call
- Clean Air Interstate Rule
- Clean Air Mercury Rule

Other Point Sources

- VOC 2-, 4-, 7-, and 10-year MACT standards²
- Combustion turbine MACT
- Consent decrees (refineries, ethanol plants, and ALCOA)³

² E.H. Pechan's original control file included EPA-default control factor information. Alternative control factors were developed by Wisconsin for a few MACT categories, and were also applied to the other four LADCO States.

- Other (Illinois and Ohio NOx RACT⁴, and BART in IN and WI)

Further discussion of the development of the future year emissions is provided below:

On-Road: Similar to the base year modeling, CONCEPT was run using transportation data (e.g., VMT and vehicle speeds) supplied by the state and local planning agencies for 2009 and 2018 (Environ, 2008). CONCEPT was only run with meteorological data for a July weekday (July 15). The emissions for Saturday and Sunday were derived by using scaling factors based on the 2005 emissions. The state-level emissions for the five LADCO States plus Minnesota are summarized in Table 2⁵.

For the non-LADCO States, CONCEPT was run by Environ using HPMS county-level data and MOBILE6 inputs compiled by another contractor for VISTAS. Note, the emissions modeling for IA, MO, and OK was redone for 2009 to reflect the state-developed registration distribution data. (The initial modeling for 2009 used national default values for registration distribution assumed by VISTAS' contractor. CENRAP's contractor developed emissions inventories for 2002 and 2018 using the state-developed data. For consistency, Environ's remodeling for these three states for 2009 also used the state-developed data.) Meteorological data for a July weekday (July 15) were used. The emissions for Saturday and Sunday were derived by using scaling factors based on the 2005 emissions.

For other months (for both LADCO and non-LADCO States), January weekday, Saturday, and Sunday emissions were derived based on the July:January ratios for 2005, and then the weekday, Saturday, and Sunday emissions for other months were linearly interpolated based on the January and July emissions.

³ E.H. Pechan's original control file included control factors for three sources in Wayne County, MI. These control factors were not applied in the regional-scale modeling to avoid double-counting with the State's local-scale analysis for PM2.5.

⁴ WI believes that NOx RACT for their sources is already included in the 2005 basecase and EGU "will do" scenario, and IN provided NOx RACT information for inclusion as a no-EGU "may do" scenario.

⁵ For northeastern IL (CATS region), 2009 and 2018 emissions were increases by 9% and 8%, respectively, to reflect newer transportation modeling by CATS.

Table 2. Summary of On-road Emissions (TPD – July 15, 2005)

Year	State	CO-tpd	TOG-tpd	NOx-tpd	PM2.5-tpd	SO2-tpd	NH3-tpd	Sum of VMT
2005	IL	3,684.3	341.5	748.2	12.9	9.6	35.9	344,087,819.6
	IN	3,384.9	282.0	541.1	8.9	11.1	25.7	245,537,231.9
	MI	4,210.3	351.9	722.0	12.4	13.9	35.3	340,834,025.9
	MN	2,569.1	218.7	380.5	6.3	7.6	17.7	170,024,599.7
	OH	6,113.4	679.8	933.6	16.2	18.8	36.5	360,521,068.6
	WI	2,206.0	175.1	457.5	7.8	9.2	19.7	189,123,964.3
Total		22,168.0	2,049.0	3,782.9	64.5	70.2	170.8	1,650,128,709.9
2009	IL	2,824.4	268.0	527.8	10.1	4.2	38.9	372,132,591.1
	IN	2,839.5	234.9	401.9	6.7	2.8	26.1	249,817,026.3
	MI	3,172.0	269.2	500.9	9.2	4.0	37.1	356,347,010.5
	MN	2,256.8	206.3	307.5	5.1	2.3	21.5	204,443,017.8
	OH	4,619.2	423.7	693.5	11.8	4.7	39.5	387,428,127.2
	WI	1,673.4	119.4	322.1	5.7	2.3	20.6	197,729,964.9
Total		17,385.3	1,521.5	2,753.6	48.7	20.3	183.6	1,767,897,737.8
2018	IL	2,084.7	151.5	200.7	6.3	3.7	43.1	413,887,887.3
	IN	2,217.3	138.4	173.0	4.4	2.6	30.2	288,042,232.1
	MI	2,434.3	163.5	204.1	5.9	3.6	40.5	388,128,431.8
	MN	1,799.6	123.1	137.1	3.6	2.2	24.9	237,022,213.7
	OH	3,361.5	242.5	274.1	6.8	4.0	43.1	421,694,093.4
	WI	1,255.5	68.4	138.5	3.9	2.0	22.2	218,277,167.5
Total		13,152.9	887.5	1,127.5	30.8	18.1	203.9	1,967,052,025.8

EGU Point: Future year emissions were based on EPA's IPM3.0 modeling⁶. Three CAIR scenarios were addressed:

5a: EPA's IPM3.0 was assumed as the future year base for EGUs.

5b: EPA's IPM3.0, with several "will do" adjustments identified by the States. These adjustments should reflect a legally binding commitment (e.g., signed contract, consent decree, or operating permit).⁷

5c: EPA's IPM3.0, with several "may do" adjustments identified by the States. These adjustments reflect less rigorous criteria, but should still be some type of public reality (e.g., BART determination or press announcement).

Table 3 summarizes the SO₂ and NO_x emissions for the three scenarios. The individual facilities affected by the "will do" and "may do" adjustments are identified in Attachment 2. The net effect of these adjustments is a small increase in regional SO₂ and NO_x emissions.

Based on initial discussions with USEPA, a decision was made to use the 2010 IPM emissions in the 2009 modeling. USEPA subsequently insisted that 2009 modeling must represent 2009 conditions. Because 2009 and 2010 EGU NO_x emissions are expected to be similar (note: CAIR Phase I compliance date for NO_x is 2009), the Round 5.1 ozone modeling was not redone.

USEPA believes that 2009 and 2010 EGU SO₂ emissions may be significantly different (note: CAIR Phase I compliance date for SO₂ is 2010). In particular, USEPA noted that information on projected scrubber installations identifies several facilities are not expected to be completed until 2010. A model sensitivity run was conducted with adjusted (higher) EGU SO₂ emissions.

⁶ The second set of new IPM runs by EPA were used. These runs were performed at the request of the RPOs and reflect the addition of run years 2012 and 2018, and the use of four load segments for 2032 to decrease model size (instead of six segments). Comparing the results in this run with EPA's initial v3.0, showed small differences. Below is a quick summary of the run year differences.

EPA Base Case for IPM v.3.0

2010: 2009-2012
2015: 2013-2017
2020: 2018-2022
2025: 2023-2027
2032: 2028-2035

Base Case RPO Run for IPM v3.0 (added 2012 and 2018 run years, 2020 run year merged with the 2025 run year, and four load segments used for the 2032 run year)

2010: 2009-2011
2012: 2012-2012
2015: 2013-2017
2018: 2018-2019
2025: 2020-2028
2032: 2029-2035

⁷ Scenario 5b and 5c also reflect changes in Minnesota, Missouri, and North Dakota.

Table 4 provides information from USEPA's Clean Air Markets Division (CAMD) on scrubber installation dates. This information is based on various sources, including company announcements, consent decrees, vendors, and organizations that track scrubber installations. While there may be uncertainty in any projection of control installations, USEPA considers these adequate projections for SIP planning purposes.

USEPA identified six plants which: (1) are projected in IPM3.0 to have scrubbers in place by 2010 (or 2011), but will not be completed by 2009, and (2) are most likely to impact PM_{2.5} air quality in the upper Midwest (see highlighting in Table 4). To reflect uncontrolled (2009) emissions for those facilities (and units), LADCO substituted actual 2005 emissions for the IPM3.0 projected 2010 emissions. The revised (2009) SO₂ emissions for the six facilities (see Table 5) represent a 5-6% increase in domainwide SO₂ emissions.

Table 3. Comparison of EGU Emissions for Base (5a), Will Do (5b), and Will Do (5c) Scenarios

	2010				2018		
SO₂	5a	5b	5c		5a	5b	5c
IL	958	881	881		869	433	433
IN	1033	1318	1318		1036	1194	1194
MI	667	667	667		725	725	725
OH	1326	1410	1410		983	1127	1127
WI	460	460	421		435	499	235
	4444	4736	4697		4048	3978	3714
MN	162	148	148		187	167	157
NO_x	5a	5b	5c		5a	5b	5c
IL	275	247	247		224	195	195
IN	370	372	372		255	266	266
MI	242	242	242		243	243	243
OH	281	305	305		285	310	310
WI	165	164	155		176	172	145
	1333	1330	1321		1183	1186	1159
MN	116	142	142		132	157	125

Table 4. Facilities Anticipating SO2 Controls in 2009 and 2010

State Name	Plant Name	UniqueID_Final	ORIS Code	Unit ID	Capacity MW	Scrubber OnlineYear	Scrubber OnlineMonth
Alabama	Barry	3_B_5	3	5	768	2010	
Alabama	E C Gaston	26_B_5	26	5	861	2010	
Arizona	Cholla	113_B_3	113	3	271	2009	
Florida	Crystal River	628_B_4	628	4	720	2010	
Florida	Crist	641_B_6	641	6	302	2010	
Florida	Crist	641_B_7	641	7	477	2010	
Florida	Crystal River	628_B_5	628	5	717	2009	5
Florida	Deerhaven Generating Station	663_B_B2	663	B2	228	2009	5
Georgia	Bowen	703_B_1BLR	703	1BLR	713	2010	
Georgia	Wansley	6052_B_2	6052	2	892	2009	5
Georgia	Bowen	703_B_2BLR	703	2BLR	718	2009	4
Indiana	Clifty Creek	983_B_1	983	1	217	2010	
Indiana	Clifty Creek	983_B_2	983	2	217	2010	
Indiana	Clifty Creek	983_B_3	983	3	217	2010	
Indiana	Clifty Creek	983_B_4	983	4	217	2010	
Indiana	Clifty Creek	983_B_5	983	5	217	2010	
Indiana	Clifty Creek	983_B_6	983	6	217	2010	
Indiana	Warrick	6705_B_4	6705	4	300	2010	
Kentucky	Big Sandy	1353_B_BSU2	1353	BSU2	800	2009	11
Kentucky	E W Brown	1355_B_1	1355	1	94	2009	1
Kentucky	E W Brown	1355_B_2	1355	2	160	2009	1
Kentucky	E W Brown	1355_B_3	1355	3	422	2009	1
Kentucky	H L Spurlock	6041_B_1	6041	1	315	2009	
Maryland	Brandon Shores	602_B_1	602	1	643	2010	
Maryland	Brandon Shores	602_B_2	602	2	643	2010	
Maryland	Chalk Point LLC	1571_B_1	1571	1	341	2010	
Maryland	Chalk Point LLC	1571_B_2	1571	2	342	2010	
Maryland	Dickerson	1572_B_1	1572	1	182	2010	
Maryland	Dickerson	1572_B_2	1572	2	182	2010	
Maryland	Dickerson	1572_B_3	1572	3	182	2010	
Maryland	Morgantown Generating Plant	1573_B_1	1573	1	624	2009	
Maryland	Morgantown Generating Plant	1573_B_2	1573	2	620	2009	
Michigan	Monroe	1733_B_4	1733	4	775	2009 (2010?)	
Missouri	Sioux	2107_B_1	2107	1	497	2010	
Missouri	Sioux	2107_B_2	2107	2	497	2010	
New Jersey	PSEG Mercer Gen. Station	2408_B_1	2408	1	315.3	2010	
New Jersey	PSEG Mercer Gen. Station	2408_B_2	2408	2	309.9	2010	
New York	AES Westover	2526_B_11	2526	11	21.85	2010	
New York	AES Westover	2526_B_12	2526	12	21.85	2010	
New York	AES Westover	2526_B_13	2526	13	84	2010	
New York	AES Greenidge LLC	2527_B_4	2527	4	26.5	2010	
New York	AES Greenidge LLC	2527_B_5	2527	5	26.5	2010	
NorthCarolina	Cliffside	2721_B_1	2721	1	38	2010	

NorthCarolina	Cliffside	2721_B_2	2721	2	38	2010	
NorthCarolina	Cliffside	2721_B_3	2721	3	61	2010	
NorthCarolina	Cliffside	2721_B_4	2721	4	61	2010	
NorthCarolina	Cliffside	2721_B_5	2721	5	550	2010	
NorthCarolina	G G Allen	2718_B_1	2718	1	161.73	2009	5
NorthCarolina	Roxboro	2712_B_1	2712	1	369	2009	
NorthCarolina	G G Allen	2718_B_2	2718	2	161.73	2009	
NorthCarolina	G G Allen	2718_B_3	2718	3	259.77	2009	
NorthCarolina	G G Allen	2718_B_4	2718	4	274.77	2009	
NorthCarolina	G G Allen	2718_B_5	2718	5	265	2009	
NorthCarolina	Mayo	6250_B_1A	6250	1A	361.5	2009	
NorthCarolina	Mayo	6250_B_1B	6250	1B	361.5	2009	
Ohio	W H Sammis	2866_B_6	2866	6	630	2011	
Ohio	W H Sammis	2866_B_7	2866	7	630	2011	
Ohio	R E Burger	2864_B_7	2864	7	156	2010	
Ohio	R E Burger	2864_B_8	2864	8	156	2010	
Ohio	Kyger Creek	2876_B_1	2876	1	217	2010	
Ohio	Kyger Creek	2876_B_2	2876	2	217	2010	
Ohio	Kyger Creek	2876_B_3	2876	3	217	2010	
Ohio	Kyger Creek	2876_B_4	2876	4	217	2010	
Ohio	Kyger Creek	2876_B_5	2876	5	217	2010	
Ohio	Conesville	2840_B_4	2840	4	780	2009	4
Ohio	Bay Shore	2878_B_4	2878	4	215	2009	
Pennsylvania	Cheswick Power Plant	8226_B_1	8226	1	580	2010	
Pennsylvania	Hatfields Ferry Power Station	3179_B_1	3179	1	530	2009	1
Pennsylvania	Hatfields Ferry Power Station	3179_B_2	3179	2	530	2009	1
Pennsylvania	Hatfields Ferry Power Station	3179_B_3	3179	3	530	2009	1
Pennsylvania	Keystone	3136_B_1	3136	1	850	2009	
Pennsylvania	Keystone	3136_B_2	3136	2	850	2009	
Pennsylvania	PPL Brunner Island	3140_B_1	3140	1	321	2009	
Pennsylvania	PPL Brunner Island	3140_B_2	3140	2	378	2009	
Tennessee	Kingston	3407_B_1	3407	1	135	2010	
Tennessee	Kingston	3407_B_2	3407	2	135	2010	
Tennessee	Kingston	3407_B_3	3407	3	135	2010	
Tennessee	Kingston	3407_B_4	3407	4	135	2010	
Tennessee	Kingston	3407_B_5	3407	5	177	2010	
Tennessee	Kingston	3407_B_6	3407	6	177	2010	
Tennessee	Kingston	3407_B_7	3407	7	177	2010	
Tennessee	Kingston	3407_B_8	3407	8	177	2010	
Tennessee	Kingston	3407_B_9	3407	9	178	2010	
Tennessee	Bull Run	3396_B_1	3396	1	881	2009	1
Texas	Fayette Power Project	6179_B_1	6179	1	598	2009	
Texas	Fayette Power Project	6179_B_2	6179	2	598	2009	
Virginia	Chesterfield	3797_B_5	3797	5	310	2010	
Virginia	Yorktown	3809_B_1	3809	1	159	2010	

Table 5. Summary of Adjusted EGU SO₂ Emissions (TPD)

State	Plant	2010 IPM	2005 BY
Indiana	Clifty Creek	41.41	225.32
Missouri	Ameren Sioux	22.25	141.92
Ohio	Kyger Creek	21.53	197.68
Ohio	Sammis	147.97	305.90
Pennsylvania	Cheswick	11.53	103.98
Tennessee	Kingston	41.15	155.20

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<http://www.ladco.org/tech/emis/basem/canada/index.htm>

<http://www.ec.gc.ca/pdb/npri/>

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ATTACHMENT 1

Emissions Summaries

	VOC	Base M	BaseK	Base M	BaseK	BaseK	Base M	NOx	Base M	BaseK	Base M	BaseK	BaseK	Base M	SOX	Base M	BaseK	Base M	BaseK	BaseK	Base M	PM2.5	Base M	BaseK	Base M	BaseK	BaseK	Base M
July	2002	2005	2009	2009	2012	2018	2018	2002	2005	2009	2009	2012	2018	2018	2002	2005	2009	2009	2012	2018	2018	2002	2005	2009	2009	2012	2018	2018
Nonroad																												
IL	224	321	164	257	149	130	213	324	333	263	275	224	154	155	31	33	5	5	0.6	0.4	0.4		30		24		14	
IN	125	195	94	160	95	95	128	178	191	142	158	141	141	89	17	19	3	3	3	0.3	0.2		17		13		7	
MI	348	414	307	350	276	222	271	205	239	159	197	133	93	112	19	22	3	3	0.5	0.3	0.3		22		18		11	
OH	222	356	161	294	145	126	238	253	304	195	246	162	109	135	23	29	4	5	0.5	0.3	0.4		27		22		13	
WI	214	238	194	203	175	140	157	145	157	114	129	97	69	77	13	15	2	2	0.3	0.2	0.2		14		12		7	
5-State Total	1133	1524	920	1264	840	713	1007	1105	1224	873	1005	757	566	568	103	118	17	18	4.9	1.5	1.5		110		89		52	
U.S. Total	8463	9815	5442	8448		5244	6581	6041	9060	6057	8120		5832	5100	505	654	117	153		104	13		573		750		475	
MAR																												
IL	10	11	10	10	10	10	6	277	246	201	228	195	186	165	0	22	0	19	0	0	17		7		6		4	
IN	5	5	5	5	5	5	3	123	93	89	87	87	84	65	0.2	8	0.2	7	0.2	0.2	6		2		2		2	
MI	7	7	7	7	7	8	7	114	87	112	82	111	110	65	0.6	21	0.7	14	0.7	0.8	8		3		3		2	
OH	8	7	8	7	8	8	5	177	134	128	126	126	122	94	0.4	14	0.3	12	0.3	0.3	10		4		4		2	
WI	4	4	4	4	4	4	3	79	58	59	54	59	57	41	12.7	8	9.5	6	9.5	8.7	5		2		2		1	
5-State Total	34	34	34	33	34	35	24	770	618	589	577	578	559	430	13.9	73	10.7	58	10.7	10	46		18		17		11	
U.S. Total	307	317	321	157	329	346	334	4968	4515	4002	1813	3964	3919	3812	620	512	509	122	509	503	290		147		57		165	
OtherArea																												
IL	679	675	688	594	700	738	582	62	48	68	48	70	73	49	11	11	12	16	12	13	16		40		64		69	
IN	354	391	365	358	373	398	384	62	56	65	58	67	69	59	158	32	150	32	151	153	32		2		2		2	
MI	518	652	516	562	520	541	549	49	49	52	50	53	54	51	71	29	68	29	68	68	28		111		114		120	
OH	546	604	550	506	558	593	487	50	93	59	108	60	62	108	22	6	34	15	35	35	14		19		35		34	
WI	458	315	467	290	474	506	293	32	37	34	37	34	35	37	9	17	9	13	10	10	13		11		12		12	
5-State Total	2555	2637	2586	2310	2625	2776	2295	255	283	278	301	284	293	304	271	95	273	105	276	279	103		183		227		237	
U.S. Total	17876	21093	18638	18683		20512	24300	3856	4899	4100	4220		4418	5357	2075	2947	2062	2559		2189	2709		2735		2621		2570	
On-Road																												
IL	446	341	314	268	260	197	151	890	748	578	528	474	300	201		9		4		3			13		10		6	
IN	405	282	237	235	193	150	138	703	541	425	402	313	187	173		11		3		2			9		7		2	
MI	522	351	335	269	303	217	163	926	722	680	501	619	385	204		14		4		3			12		9		3	
OH	574	680	365	424	340	238	242	1035	934	609	693	512	270	274		18		4		4			16		12		4	
WI	238	175	144	119	117	88	68	481	457	303	322	226	118	138		9		2		2			8		6		2	
5-State Total	2185	1829	1395	1315	1213	890	762	4035	3402	2595	2446	2144	1260	990		61		17		14			58		44		17	
U.S. Total	14263				7825			23499				13170																
EGU																												
IL	9	7	8	6	8	9	7	712	305	227	275	244	231	224	1310	1158	944	958	789	810	869		13		34		77	
IN	6	6	6	6	7	6	6	830	393	406	370	424	283	255	2499	2614	1267	1033	1263	1048	1036		16		73		74	
MI	12	6	11	4	11	12	4	448	393	218	242	219	247	243	1103	1251	1022	667	1031	1058	725		15		25		29	
OH	5	4	6	5	7	7	6	1139	408	330	280	322	271	285	3131	3405	1463	1326	994	701	983		28		94		80	
WI	3	5	3	2	4	4	3	293	213	146	165	139	147	177	602	545	512	460	492	500	435		0		22		25	
5-State Total	35	28	34	23	37	38	26	3422	1712	1327	1332	1348	1179	1184	8645	8973	5208	4444	4569	4117	4048		72		248		285	
U.S. Total	214	140	195	124	197	215	138	14371	10316	7746	7274	7721	7007	6095	31839	34545	20163	16903	17629	14727	14133		685		1131		1571	
Non-EGU																												
IL	313	221	286	218	305	350	258	356	330	334	218	338	343	235	373	423	251	335	257	249	346		16		17		19	
IN	150	130	160	137	170	199	167	238	179	212	175	216	225	178	292	218	270	216	274	290	180		35		36		44	
MI	123	116	115	119	122	139	140	216	240	208	242	214	229	271	162	158	166	148	171	185	163		20		21		25	
OH	77	84	75	87	79	90	104	177	175	157	166	160	167	178	240	289	231	288	210	216	293		27		28		33	
WI	88	84	97	87	104	120	106	98	97	91	93	92	94	81	163	156	154	152	155	156	85		0		0.1		0.1	
5-State Total	751	635	733	648	780	898	775	1085	1021	1002	894	1020	1058	943	1230	1244	1072	1139	1067	1096	1067		98		102		121	
U.S. Total	4087	3877	4409		4700	5378		6446	6730	6129		6435	6952		5759	5630	6093		6340	6970					1444		1777	
IL	1681	1576	1470	1353	1432	1434	1217	2621	2010	1671	1572	1545	1287	1029	1725	1656	1212	1337	1059	1072	1251		119		155		189	
IN	1045	1009	867	901	843	853	826	2134	1453	1339	1250	1248	989	819	2966	2902	1690	1294	1691	1492	1256		81		133		131	
MI	1530	1546	1291	1311	1239	1139	1134	1958	1730	1429	1314	1349	1118	946	1356	1495	1260	865	1271	1312	927		183		190		190	
OH	1432	1735	1165	1323	1137	1062	1082	2831	2048	1478	1619	1342	1001	1074	3416	3761	1732	1650	1240	953	1304		121		195		166	
WI																												

ATTACHMENT 2

“Will Do” and “May Do” EGU Facility Emissions

February 27, 2008

2009 – Difference between base (5a) and “will do” (5b) scenarios

The SAS System

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----- polid=NOX -----
-----
Obs    cntryid    stid    cyid    fcid    name    polid    aceebase    aceenew    diff
1      US        17      97      097190AAC    MIDWEST GENERAT    NOX      11.54      6.28      -5.266
2      US        17      197     197810AAK    MIDWEST GENERAT    NOX      21.11      9.46     -11.652
3      US        18      73      00008      NIPSCO - R.M. S    NOX      26.50     24.81     -1.691
4      US        18      77      00001      IKEC - CLIFTY C    NOX      11.58     16.42      4.836
5      US        18      89      00117      NIPSCO - DEAN H    NOX      20.51     19.13     -1.384
6      US        27      37      2703700003    NSP dba Xcel En    NOX       8.03     26.74     18.709
7      US        27      61      2706100004    Minnesota Power    NOX      15.43     18.40      2.969
8      US        27     163     2716300005    Xcel Energy - A    NOX       4.21      5.92      1.718
9      US        29     183      0001      AMERENUE-SIOUX    NOX      28.47     12.81    -15.658
10     US        38      55      126      Coal Creek Stat    NOX      30.49     30.36     -0.132
11     US        38      57      12      Leland Olds Sta    NOX      11.32     36.67     25.348
12     US        38      57      125      Stanton Station    NOX       6.11      6.11      0.002
13     US        38      57      13      Antelope Valley    NOX      33.00     36.39      3.385
14     US        38      57      289      Coyote             NOX      35.12     36.95      1.839
15     US        38      59      172      RM Heskett Stat    NOX       5.45      4.72     -0.727
16     US        38      65      165      M R Young Stati    NOX       6.02     71.10     65.081
17     US        39      93      0247030013    AVON LAKE POWER    NOX       3.98     20.54     16.561
18     US        39     129     0165000006    NOX                .         1.69      .
19     US        55      11      606034110    DAIRYLAND POWER    NOX      19.24     18.96     -0.279
20     US        55      21      111003090    Alliant Energy-    NOX      14.23     17.16      2.927
21     US        55      43      122014530    Alliant Energy-    NOX       7.61      7.77      0.160
22     US        55      59      230006260    WIS ELECTRIC PO    NOX       7.39     14.03      6.647
23     US        55      71      436035930    MANITOWOC PUBLI    NOX       2.06      1.80     -0.259
24     US        55      79      241007690    WIS ELECTRIC PO    NOX      15.25     15.41      0.166
25     US        55      79      241007800    WIS ELECTRIC PO    NOX       7.87      6.07     -1.801
26     US        55     117     460033090    WP & L Alliant     NOX      19.06     11.85     -7.215
27     US        55     123     663020930    DAIRYLAND POWER    NOX      10.47      8.52     -1.955
-----
polid                                     -----
                                     382.05     486.07     102.327
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February 27, 2008

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----- polid=SO2 -----
-----
Obs      cntryid   stid    cyid    fcid      name          polid    aceebase    aceenew      diff
28      US        17      97      097190AAC    MIDWEST GENERAT    SO2      49.91      29.27      -20.636
29      US        17      197     197810AAK    MIDWEST GENERAT    SO2      91.90      62.70      -29.198
30      US        18      29      00002        AMERICAN ELECTR    SO2      66.34      102.72      36.389
31      US        18      43      00004        PSI ENERGY - GA   SO2      25.53      66.01      40.488
32      US        18      73      00008        NIPSCO - R.M. S    SO2      82.52      63.71      -18.817
33      US        18      147     00020        INDIANA MICHIGA    SO2      71.67      198.71      127.042
34      US        18      167     00021        PSI ENERGY - WA   SO2      76.09      175.87      99.786
35      US        27      31      2703100001    Minnesota Power    SO2      12.27      5.75       -6.512
36      US        27      61      2706100004    Minnesota Power    SO2      30.76      20.79      -9.968
37      US        27      163     2716300005    Xcel Energy - A    SO2      5.33      7.11      1.777
38      US        29      183     0001        AMERENUE-SIOUX     SO2      22.25      8.34      -13.903
39      US        38      55      126          Coal Creek Stat    SO2      27.45      75.37      47.926
40      US        38      57      12          Leland Olds Sta    SO2      108.15     126.06     17.906
41      US        38      57      125          Stanton Station    SO2      25.29      12.37     -12.922
42      US        38      57      13          Antelope Valley    SO2      26.60      43.72     17.128
43      US        38      57      289          Coyote             SO2      19.26      53.19     33.932
44      US        38      59      172          RM Heskett Stat    SO2      9.23      30.11     20.872
45      US        38      65      165          M R Young Stati    SO2      27.98      82.23     54.249
46      US        39      81      0641160017    W. H. SAMMIS PL    SO2      147.97     55.61     -92.363
47      US        39      93      0247030013    AVON LAKE POWER    SO2      7.62      127.04    119.417
48      US        39      129     0165000006    SO2                SO2      .          16.55      .
49      US        55      21      111003090    Alliant Energy-    SO2      61.97      74.80     12.822
50      US        55      43      122014530    Alliant Energy-    SO2      11.49      42.60     31.111
51      US        55      59      230006260    WIS ELECTRIC PO     SO2      7.39      12.34      4.949
52      US        55      71      436035930    MANITOWOC PUBLI    SO2      5.90      9.95      4.050
53      US        55      79      241007690    WIS ELECTRIC PO     SO2      59.72     41.19     -18.535
54      US        55      79      241007800    WIS ELECTRIC PO     SO2      38.79     21.36     -17.433
55      US        55      123     663020930    DAIRYLAND POWER    SO2      19.56      3.79     -15.772
-----
polid                                     1138.93    1569.26    413.785
=====
                                     1520.97    2055.32    516.112

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February 27, 2008

2009 – Difference between “will do” (5b) and “may do” (5c) scenarios

The SAS System

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2008 1

----- polid=NOX -----									

Obs	cntryid	stid	cyid	fcid	name	polid	aceebase	aceenew	diff
1	US	19	139	70-01-011	MUSCATINE POWER	NOX	5.649	3.926	-1.7226
2	US	55	9	405031990	WI PUBLIC SERVI	NOX	9.234	7.786	-1.4476
3	US	55	11	606034110	DAIRYLAND POWER	NOX	18.957	18.994	0.0377
4	US	55	21	111003090	Alliant Energy-	NOX	17.158	17.156	-0.0021
5	US	55	25	113004430	MADISON GAS & E	NOX	3.886	2.639	-1.2470
6	US	55	43	122014530	Alliant Energy-	NOX	7.765	7.756	-0.0091
7	US	55	59	230006260	WIS ELECTRIC PO	NOX	14.034	9.826	-4.2074
8	US	55	71	436035930	MANITOWOC PUBLI	NOX	1.800	0.439	-1.3610
9	US	55	79	241007690	WIS ELECTRIC PO	NOX	15.413	15.435	0.0219
10	US	55	79	241007800	WIS ELECTRIC PO	NOX	6.068	6.072	0.0041
11	US	55	117	460033090	WP & L Alliant	NOX	11.847	11.892	0.0456
12	US	55	123	663020930	DAIRYLAND POWER	NOX	8.517	8.482	-0.0343
-----							-----	-----	-----
polid							120.325	110.404	-9.9218

----- polid=SO2 -----									

Obs	cntryid	stid	cyid	fcid	name	polid	aceebase	aceenew	diff
13	US	19	139	70-01-011	MUSCATINE POWER	SO2	6.237	11.178	4.9415
14	US	55	9	405031990	WI PUBLIC SERVI	SO2	21.750	18.074	-3.6753
15	US	55	21	111003090	Alliant Energy-	SO2	74.796	74.988	0.1924
16	US	55	25	113004430	MADISON GAS & E	SO2	16.331	0.063	-16.2672
17	US	55	43	122014530	Alliant Energy-	SO2	42.604	42.640	0.0362
18	US	55	59	230006260	WIS ELECTRIC PO	SO2	12.336	9.850	-2.4867
19	US	55	71	436035930	MANITOWOC PUBLI	SO2	9.949	3.001	-6.9477
20	US	55	79	241007690	WIS ELECTRIC PO	SO2	41.189	41.210	0.0207
21	US	55	79	241007800	WIS ELECTRIC PO	SO2	21.360	21.430	0.0699
22	US	55	123	663020930	DAIRYLAND POWER	SO2	3.785	3.716	-0.0694
-----							-----	-----	-----
polid							250.336	226.151	-24.1856
							=====	=====	=====
							370.662	336.554	-34.1074

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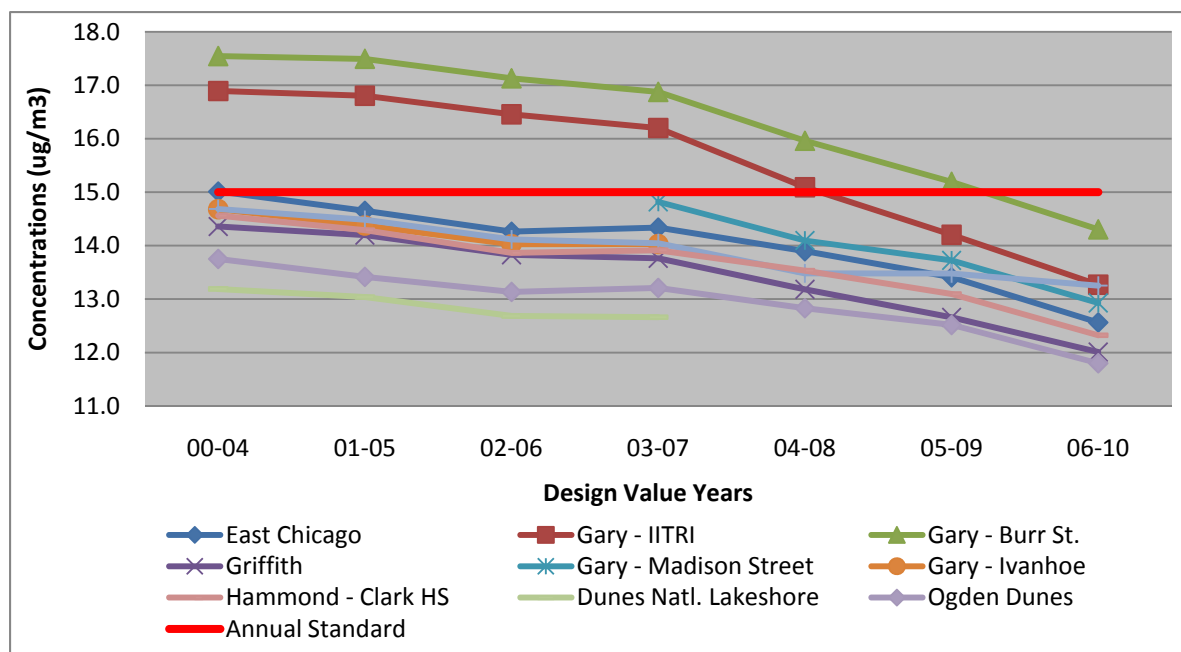
APPENDIX J

Modeling Summary

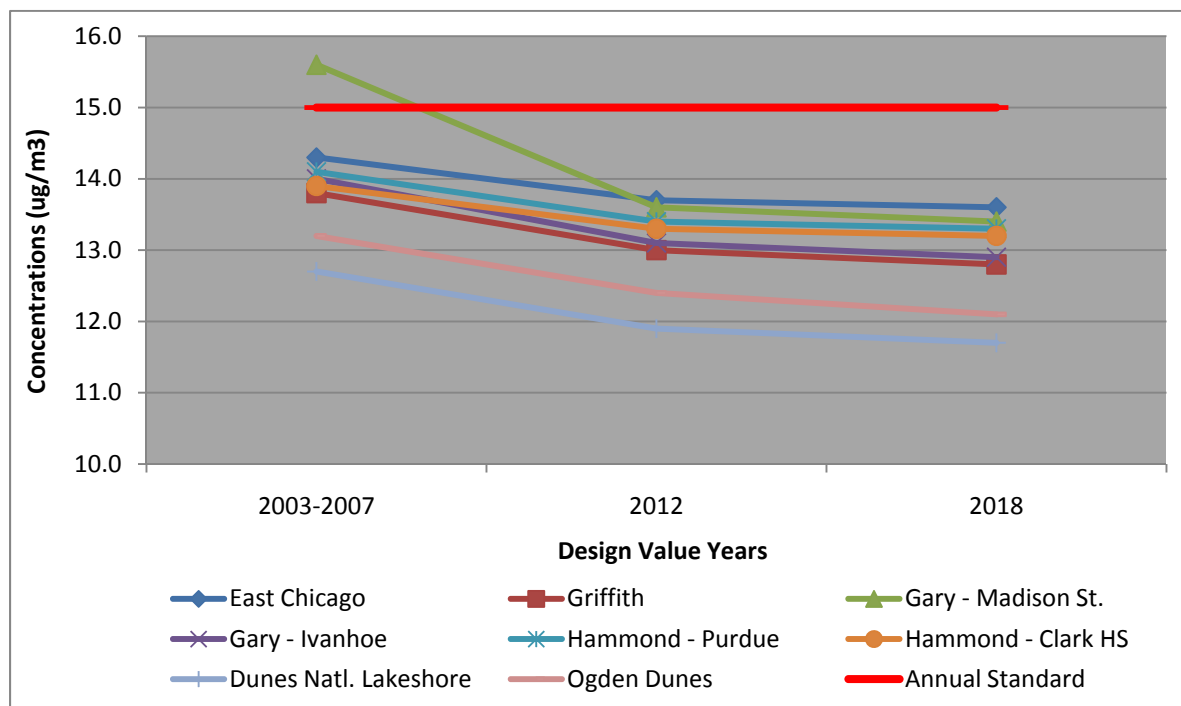
- **PM_{2.5} Design Value Trends**
- **Lake Michigan Air Directors Consortium (LADCO) Modeling Results for Lake and Porter Counties, Indiana**
- **Regional/Emission Sector Particulate Source Apportionment Technology (PSAT) Results for Lake and Porter Counties, Indiana**
- **Speciated Contributions to PM_{2.5} Concentrations in Lake and Porter Counties, Indiana**
- **Distribution of PM_{2.5} Concentration Days using Air Quality Index (AQI) Levels**

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PM_{2.5} Design Value Trends for Lake and Porter Counties, Indiana, 2000 through 2010

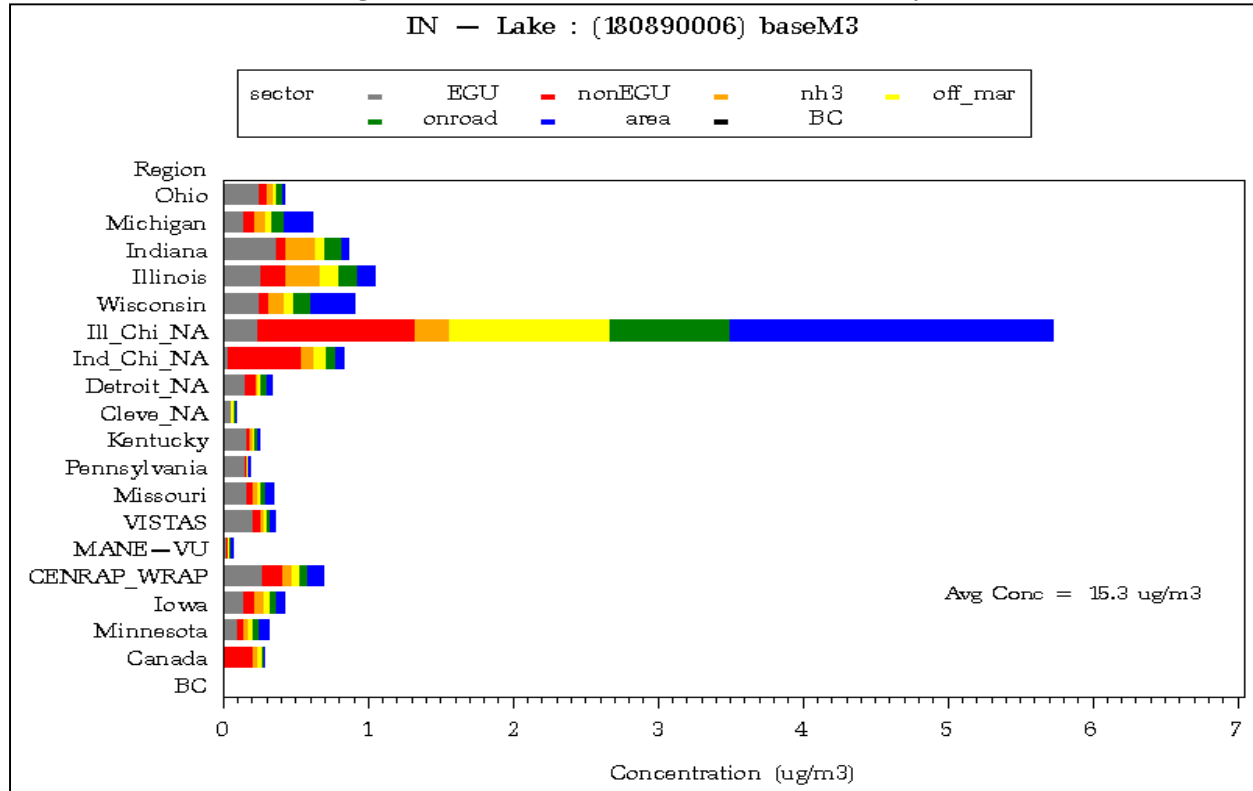


LADCO Round 6 Modeling Results for Lake and Porter Counties, Indiana for 2015 and 2018

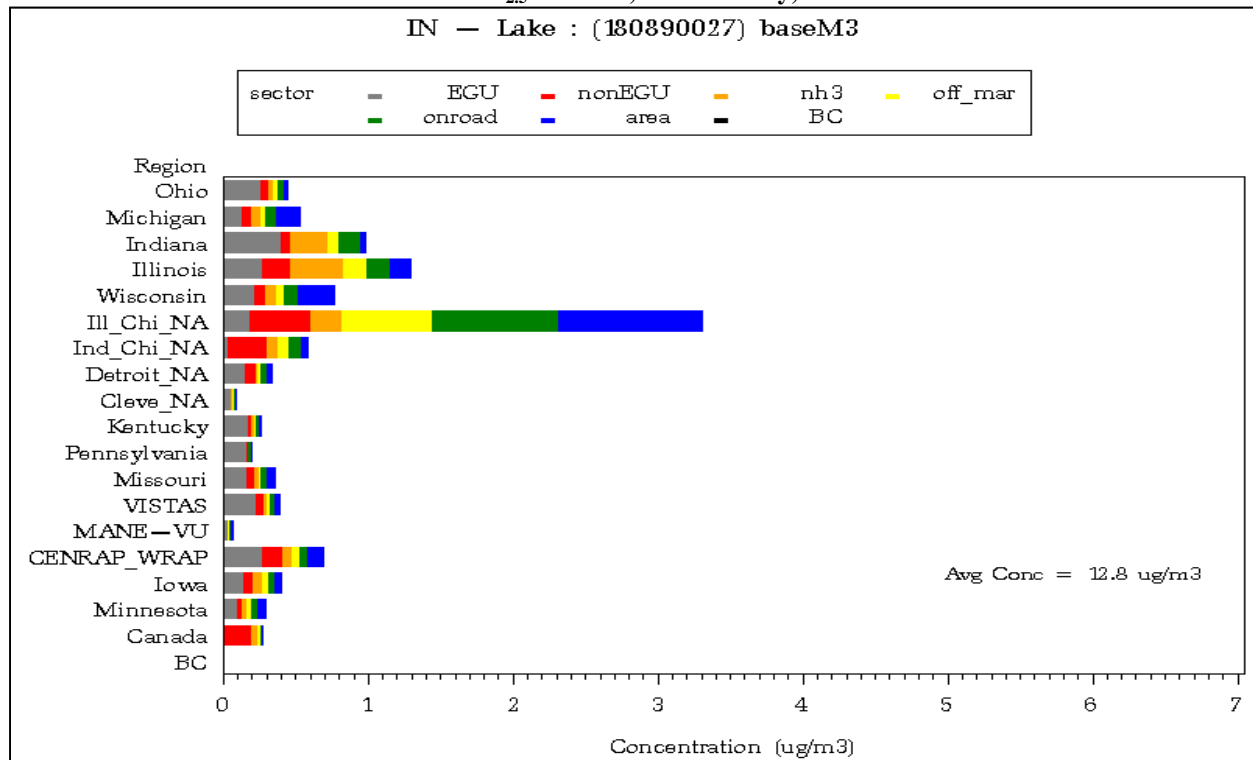


Regional/Emission Sector PSAT Results

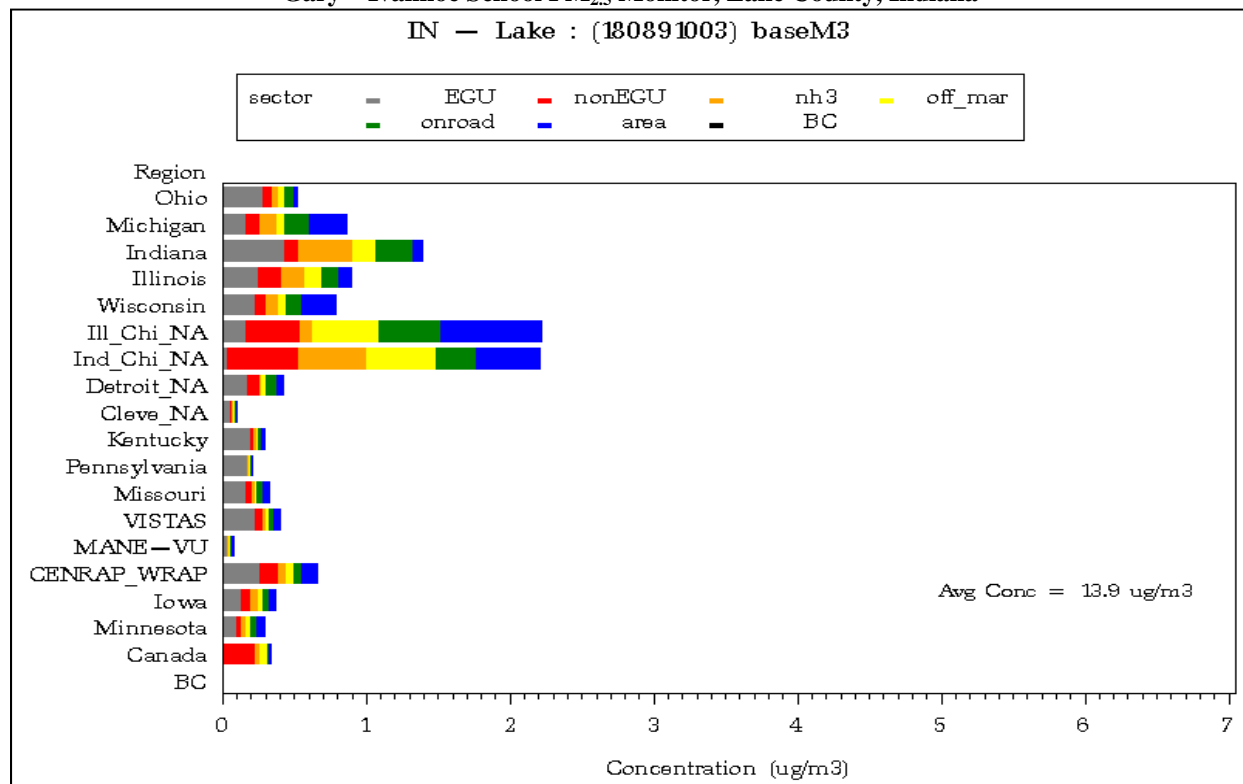
East Chicago – Franklin School PM_{2.5} Monitor, Lake County, Indiana



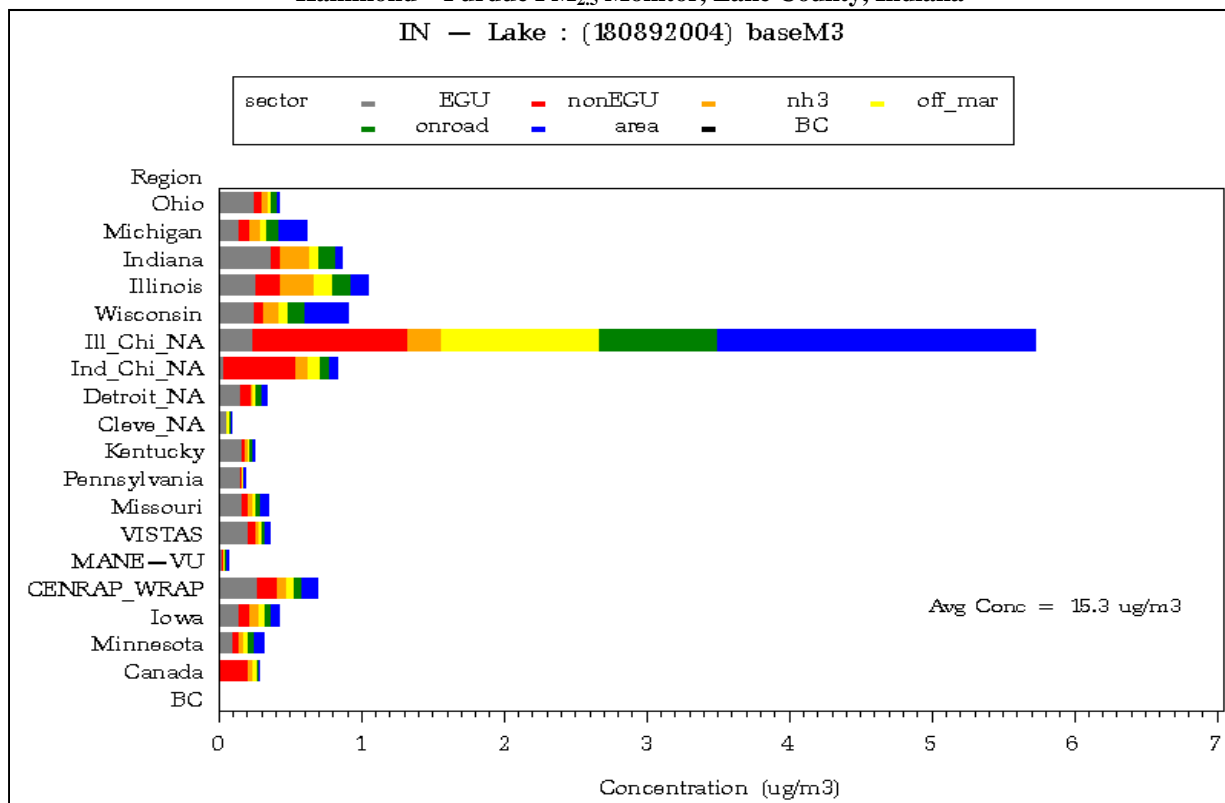
Griffith PM_{2.5} Monitor, Lake County, Indiana



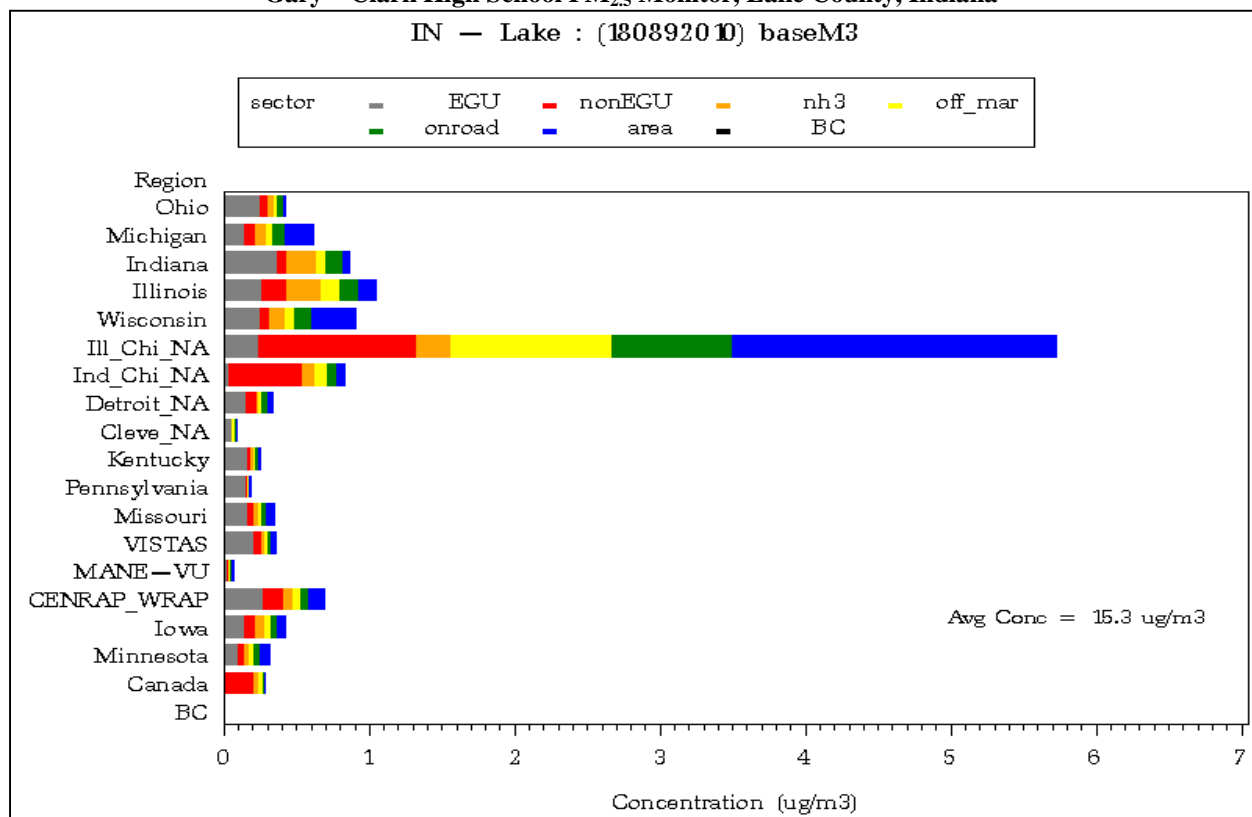
Gary – Ivanhoe School PM_{2.5} Monitor, Lake County, Indiana



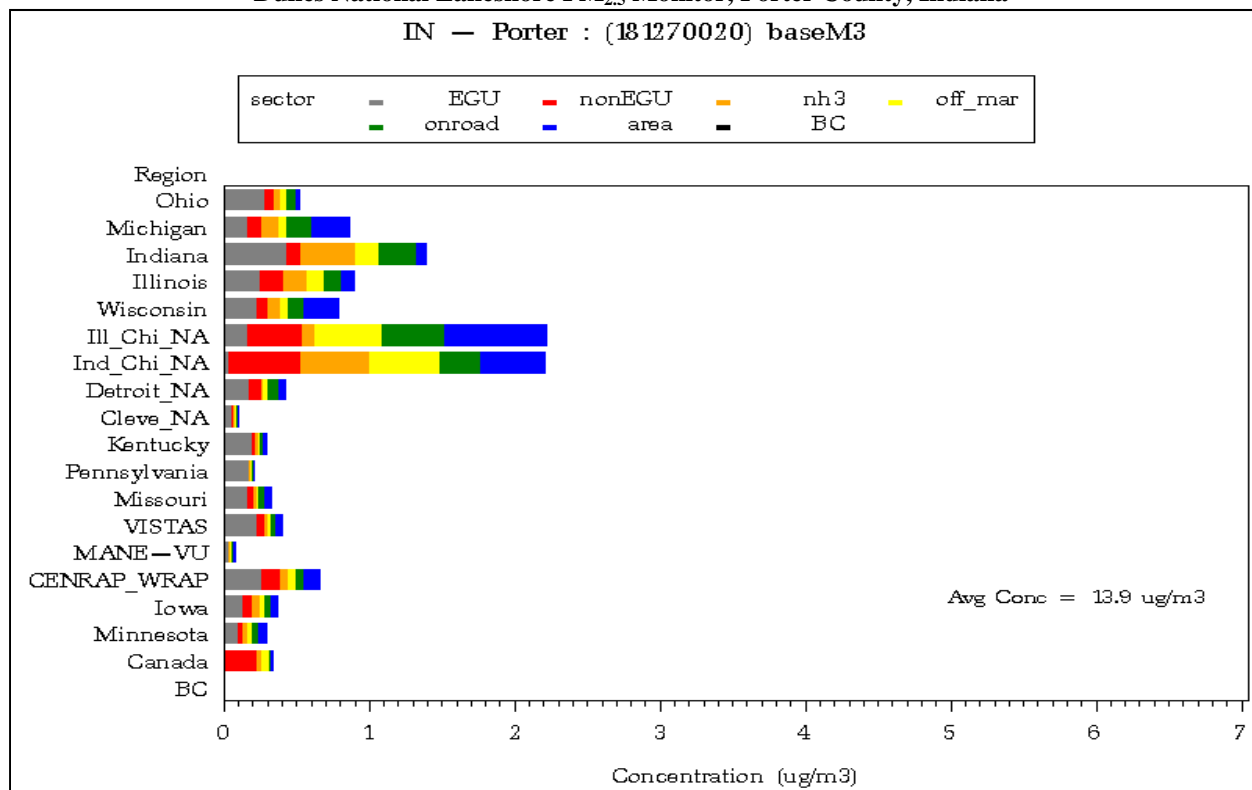
Hammond – Purdue PM_{2.5} Monitor, Lake County, Indiana



Gary – Clark High School PM_{2.5} Monitor, Lake County, Indiana

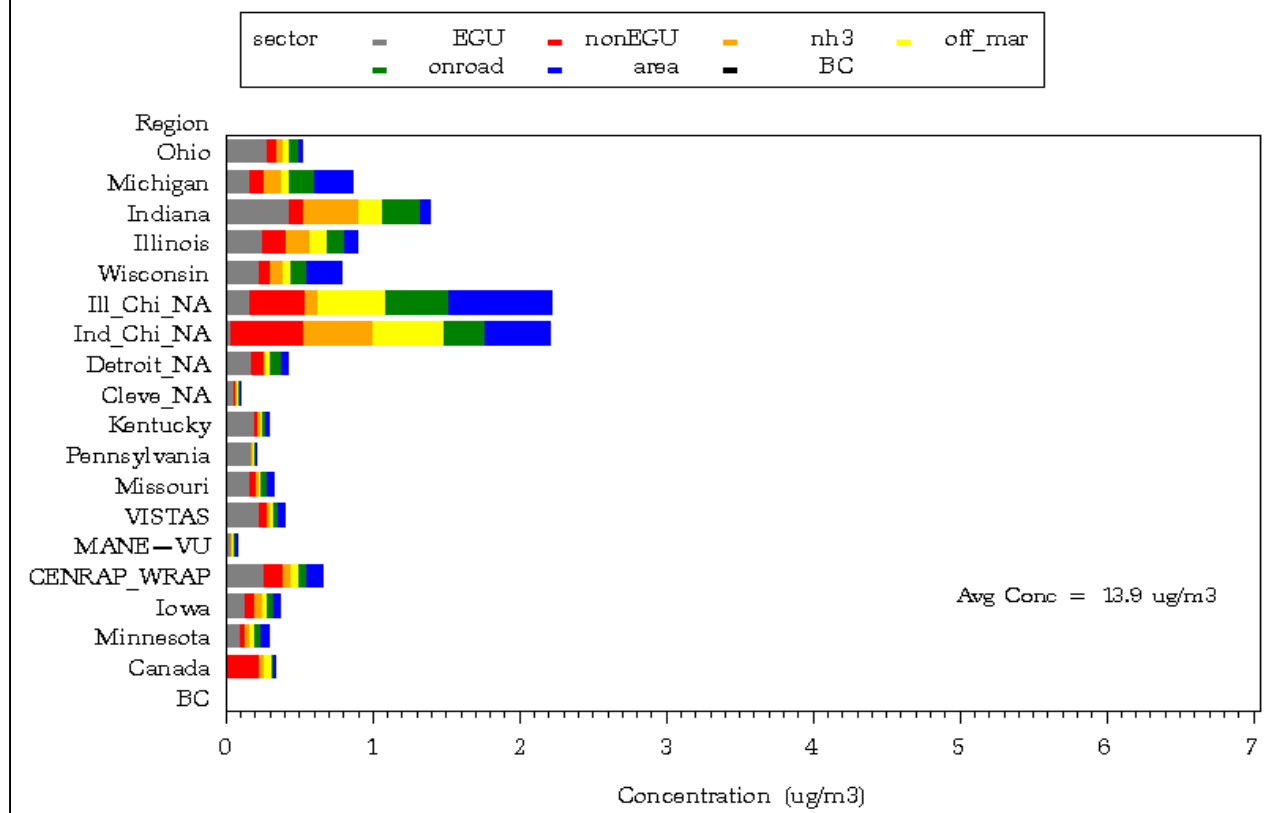


Dunes National Lakeshore PM_{2.5} Monitor, Porter County, Indiana



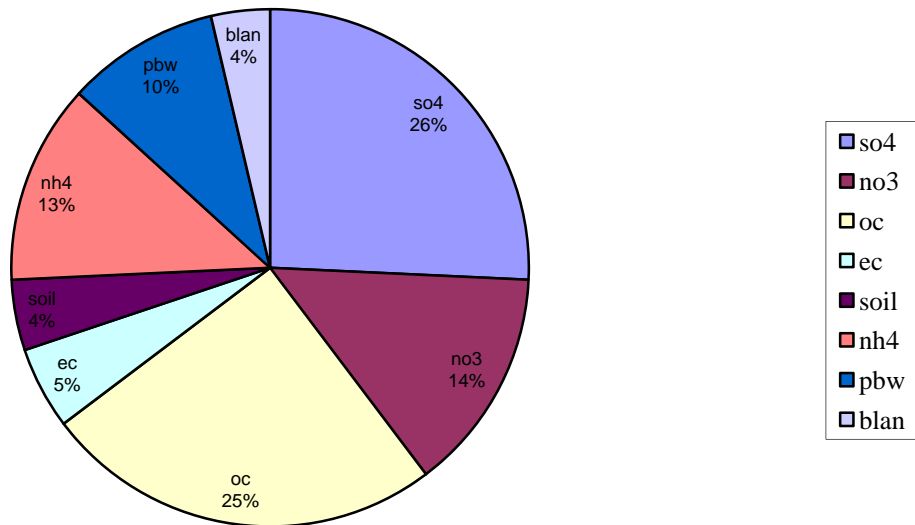
Ogden Dunes PM_{2.5} Monitor, Porter County, Indiana

IN — Porter : (181270024) baseM3

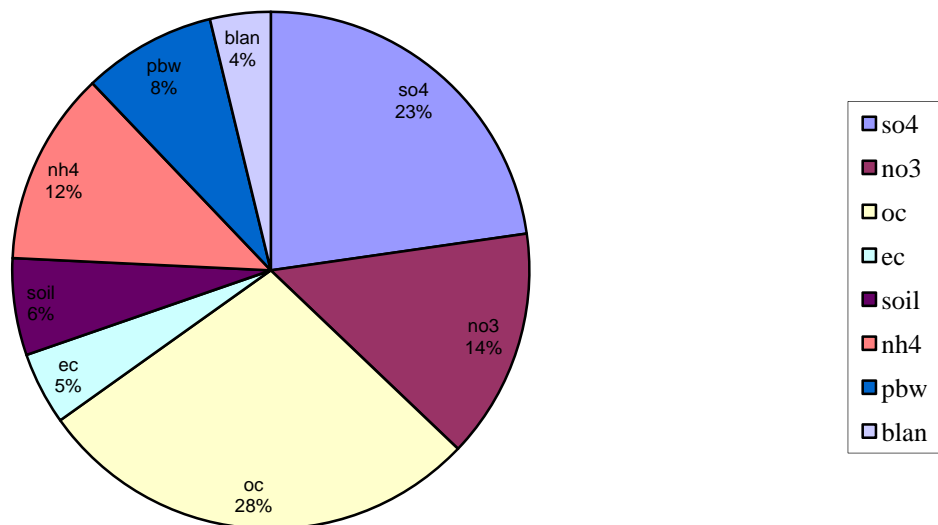


**Modeled Contributions by Specie at the East Chicago – Franklin School
PM_{2.5} Monitor**

**Observed 2005 Contributions at the East Chicago - Franklin School PM_{2.5}
Monitor**

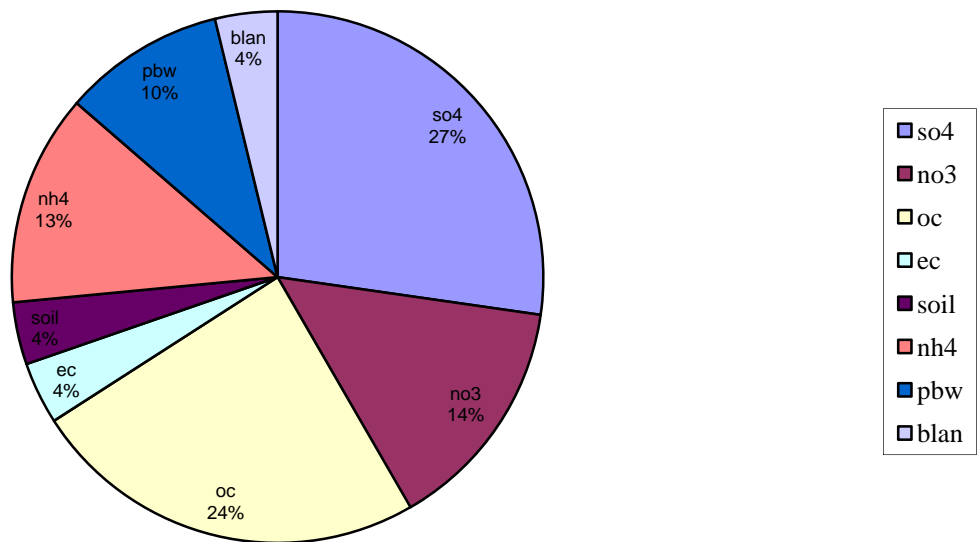


**2009 Modeled Contributions at the East Chicago - Franklin School PM_{2.5}
Monitor**

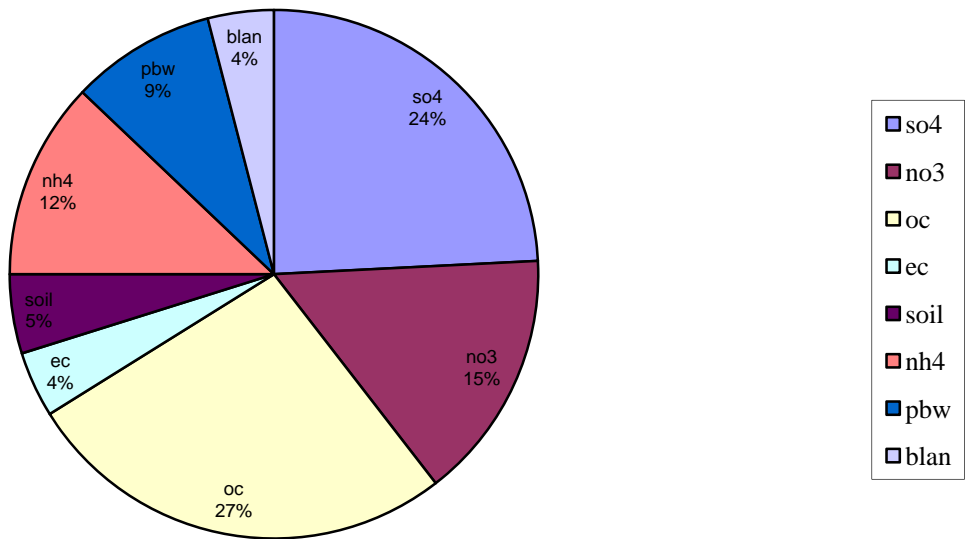


Modeled Contributions by Specie at the Griffith PM_{2.5} Monitor

Observed 2005 Contributions at the Griffith PM_{2.5} Monitor

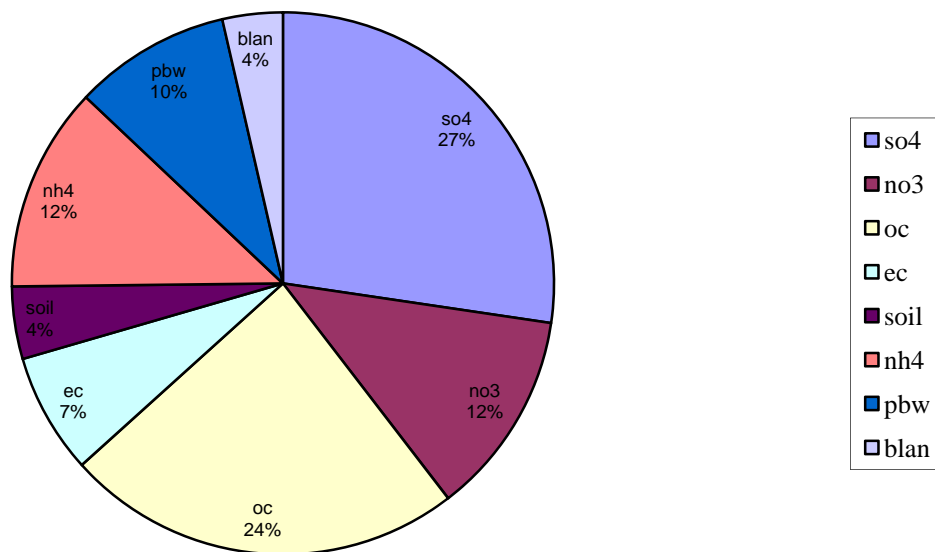


2009 Modeled Contributions at the Griffith PM_{2.5} Monitor

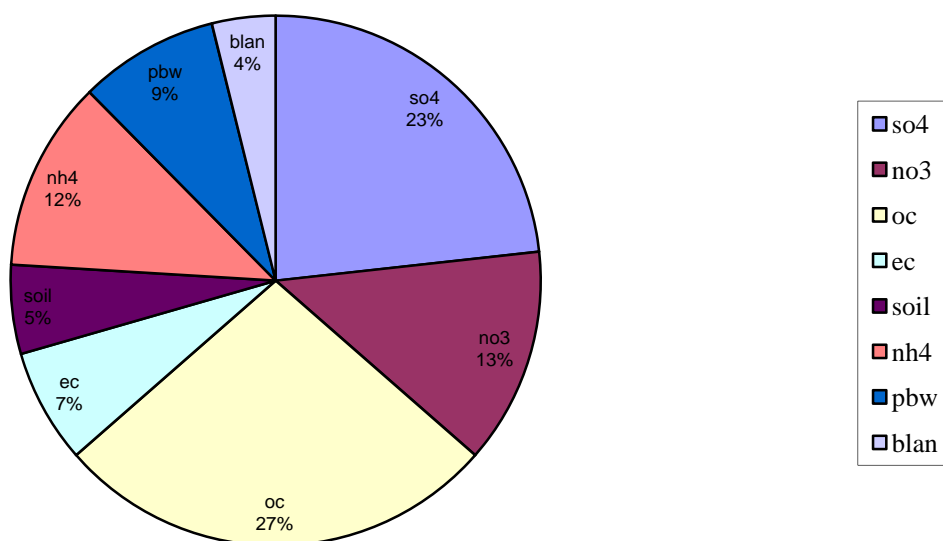


Modeled Contributions by Specie at the Gary – Madison Street PM_{2.5} Monitor

**Observed 2005 Contributions at the Gary - Madison Street
PM_{2.5} Monitor**

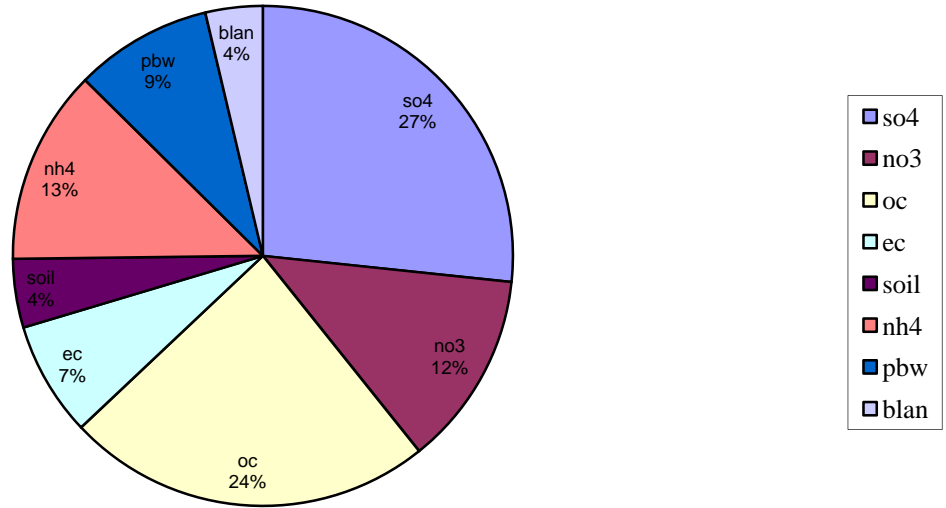


**2009 Modeled Contributions at the Gary - Madison Street
PM_{2.5} Monitor**

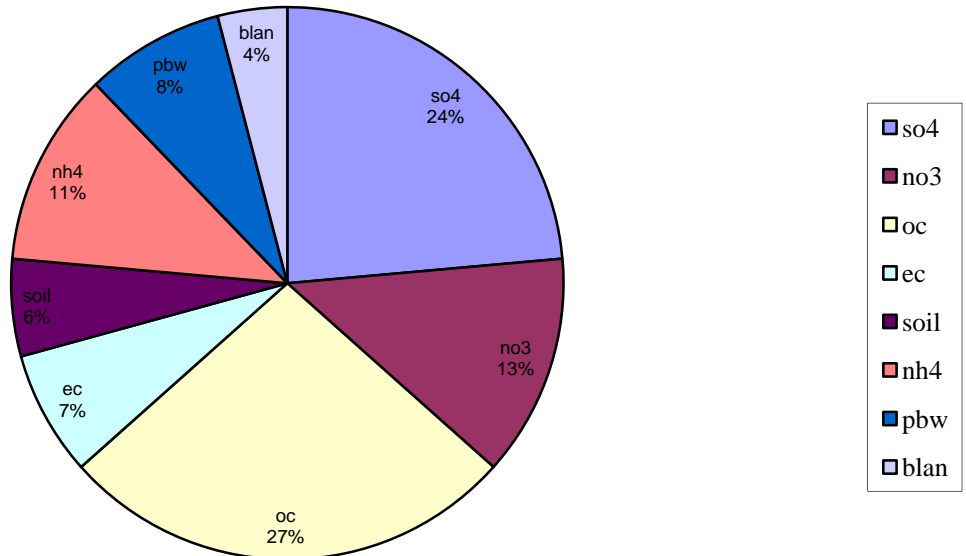


Modeled Contributions by Specie at the Gary - Ivanhoe School PM_{2.5} Monitor

Observed 2005 Contributions at the Gary - Ivanhoe School PM_{2.5} Monitor

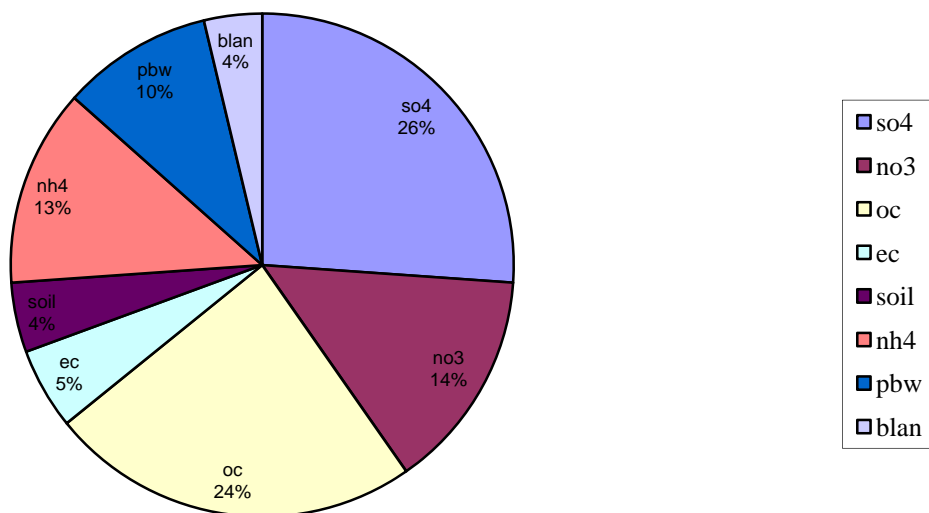


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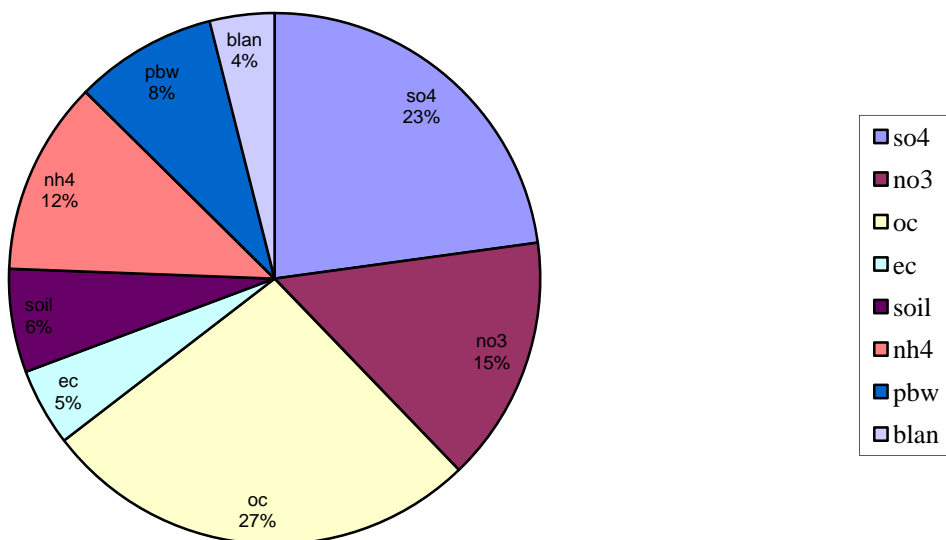


Modeled Contributions by Specie at the Hammond - Purdue PM_{2.5} Monitor

Observed 2005 Contributions at the Hammond - Purdue PM_{2.5} Monitor

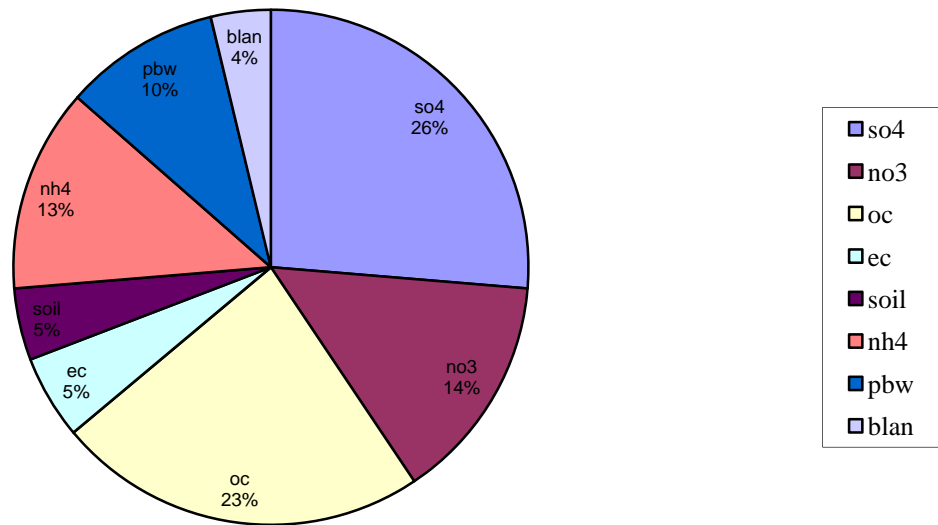


2009 Modeled Contributions at the Hammond - Purdue PM_{2.5} Monitor

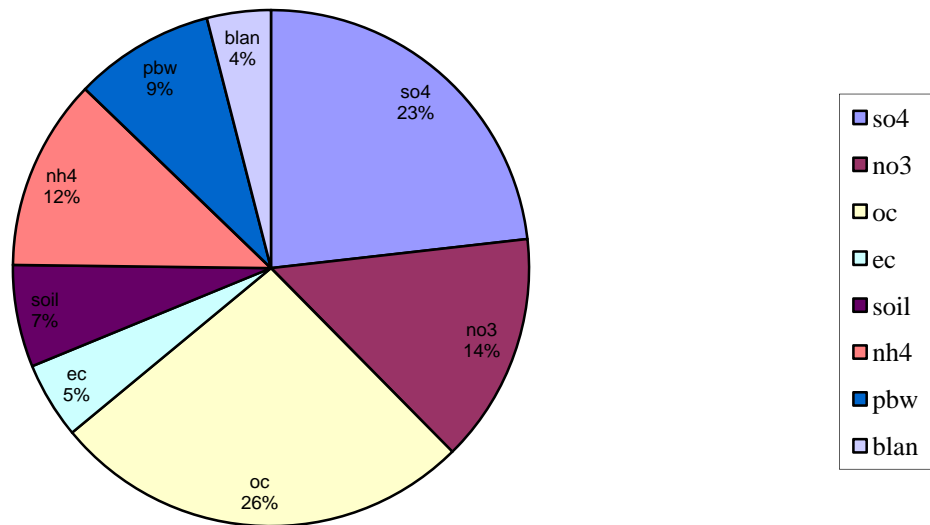


Modeled Contributions by Specie at the Hammond – Clark High School PM_{2.5} Monitor

Observed 2005 Contributions at the Hammond - Clark High School PM_{2.5} Monitor

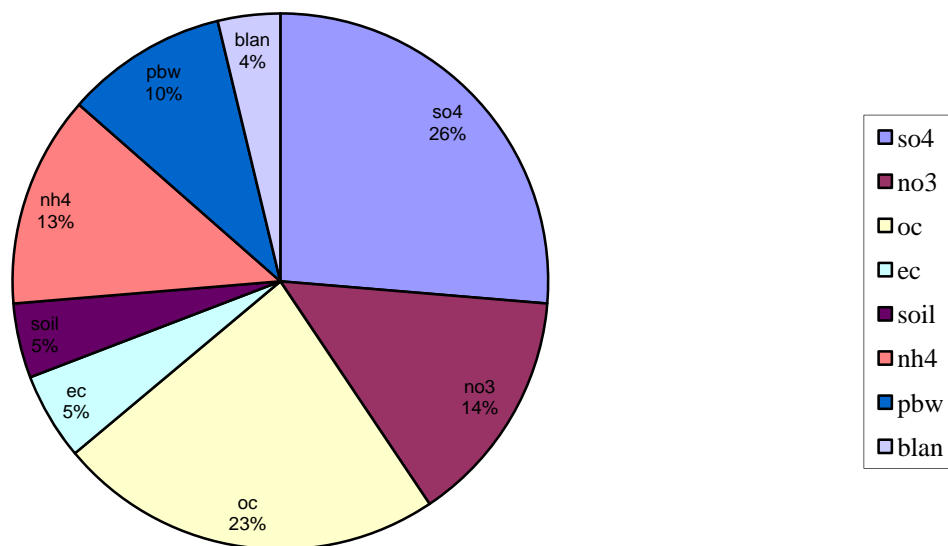


2009 Modeled Contributions at the Hammond - Clark High School PM_{2.5} Monitor

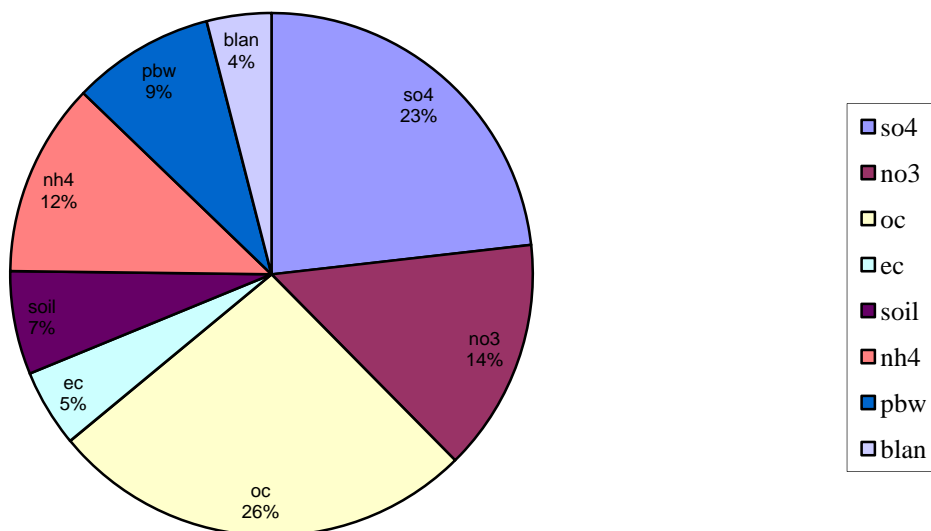


Modeled Contributions by Specie at the Dunes National Lakeshore PM_{2.5} Monitor

Observed 2005 Contributions at the Dunes National Lakeshore PM_{2.5} Monitor

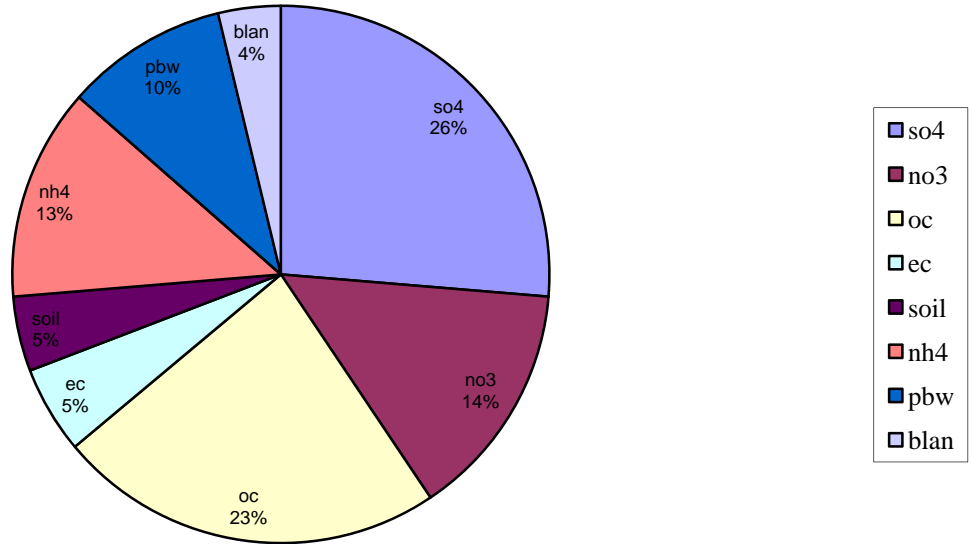


2009 Modeled Contributions at the Dunes National Lakeshore PM_{2.5} Monitor

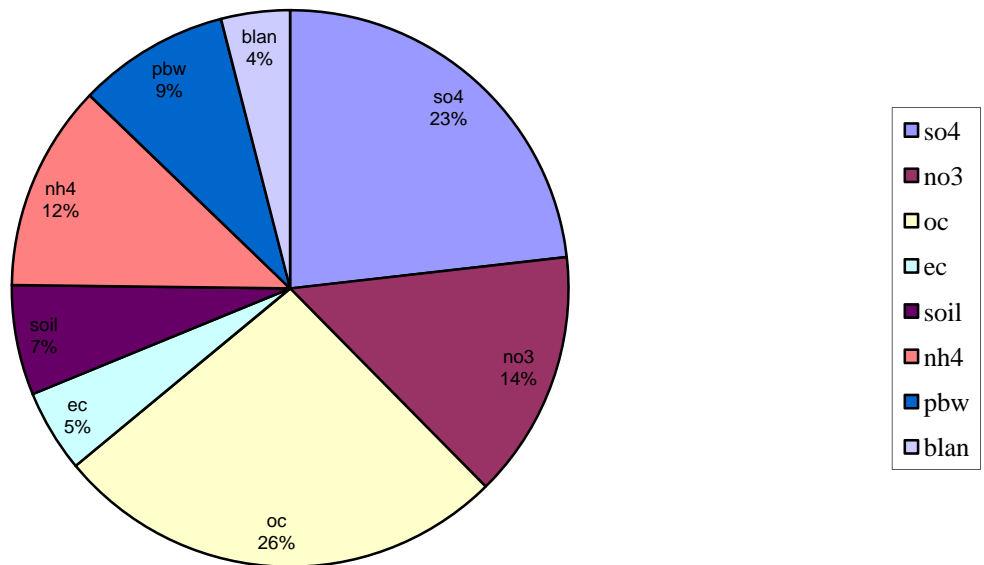


Modeled Contributions by Specie at the Ogden Dunes PM_{2.5} Monitor

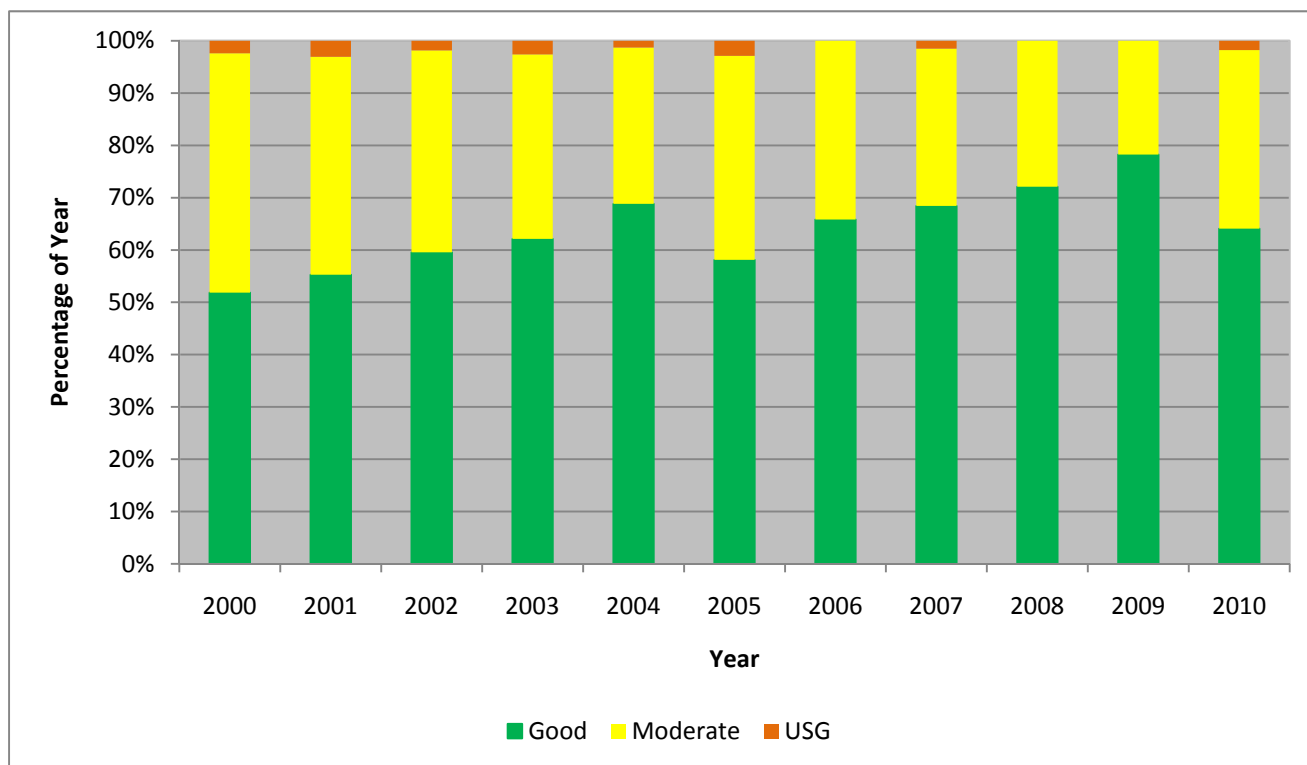
Observed 2005 Contributions at the Ogden Dunes PM_{2.5} Monitor



2009 Modeled Contributions at the Ogden Dunes PM_{2.5} Monitor



Distribution of PM_{2.5} Concentration Days on the AQI Levels of Health Concern, Lake and Porter Counties, Indiana



APPENDIX K

Public Participation Process Documents

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LEGAL NOTICE OF PUBLIC HEARING

Redesignation Petition and Maintenance Plan In Association with the Annual Fine Particle (PM_{2.5}) Standard

Lake and Porter counties, Indiana

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on May 18, 2011. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the Annual Fine Particle (PM_{2.5}) Standard, for Lake and Porter counties, Indiana. The meeting will convene at 5:30 p.m. (local time) in the large meeting room of the Lake County Public Library-Highland Branch, located at 2841 Jewett Street, Highland, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

Lake and Porter counties, Indiana are part of the Chicago-Gary-Lake IL-IN Nonattainment Area for Fine Particles. This area was designated as nonattainment for the annual standard for fine particles and subject to the requirements of Section 172 of the Clean Air Act (CAA). One of the compliance requirements mandated by Section 172(c) of the CAA, is the development of a plan demonstrating that the area will continue to meet the annual standard for fine particles. This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (U.S. EPA) guidance.

Copies of the draft documents will be available on or before April 15, 2011 to any person upon request and at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate, Room N1003, Indianapolis, Indiana.
- Indiana Department of Environmental Management, Northwest Regional Office, 8380 Louisiana Street, Merrillville, Indiana.
- Crown Point Community Library, 214 South Court Street, Crown Point, Indiana.
- Lake County Public Library-Highland Branch, located at 2841 Jewett Street, Highland Indiana
- Valparaiso Public Library, 103 Jefferson Street, Valparaiso, Indiana.
- Gary Public Library, 220 West 5th Avenue, Gary, Indiana.
- Hammond Public Library, 564 State Street, Hammond, Indiana.
- Whiting Public Library, 1735 Oliver Street, Whiting, Indiana.

The draft documents will also be available on the following web page:

<http://www.in.gov/idem/4658.htm>

Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

IDEM will also accept written comments through May 20, 2011. Mailed comments should be addressed to:

**Lake and Porter Counties, Indiana Fine Particle (PM_{2.5})
Redesignation Petition and Maintenance Plan**
Scott Deloney, Chief
Air Programs Branch
Indiana Department of Environmental Management
Office of Air Quality – Mail Code 61-50
100 North Senate Avenue
Indianapolis, IN 46206-2251

A transcript of the hearing and all written submissions provided at the public hearing shall be open to public inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing.

For additional information contact Mr. Gale Ferris, at the Indiana Department of Environmental Management, Air Programs Branch, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 234-3653 or (800) 451-6027 ext. 4-3653 (in Indiana).

Individuals requiring reasonable accommodations for participation in this hearing should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:

Attn: ADA Coordinator
Indiana Department of Environmental Management – Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

Public Hearing Script

Lake and Porter Counties, Indiana

Draft Redesignation and Maintenance Plan

This is a public hearing to accept comments concerning the draft Redesignation and Maintenance Plan under the annual National Ambient Air Quality Standard (NAAQS) for fine particles for the Indiana portion of the Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles; Lake and Porter counties, Indiana. This hearing is being held to conform to the provisions in 40 CFR Part 51 regarding public hearings for State Implementation Plan (SIP) submittals.

My name is Scott Deloney. I am the Chief of Indiana Department of Environmental Management's Air Programs Branch. I have been appointed to act as hearing officer for this public hearing. Also, here with me from the Office of Air Quality is Gale Ferris.

Notice of the time and place of the hearing was given as provided by law by publication in the following newspapers:

- 1) The Indianapolis Star, Indianapolis, Indiana
- 2) The Times, Munster, Indiana
- 3) The Post Tribune, Merrillville, Indiana

The purpose of this public hearing is to provide interested persons an opportunity to offer comments to the state regarding the draft Redesignation and Maintenance Plan under the annual NAAQS for fine particles for Lake and Porter counties, Indiana.

Appearance cards have been distributed in the hearing room for all those desiring to be shown appearing on record in this cause. If you have not already filled out the card, please do so and indicate if you are appearing for yourself or on behalf of a group or organization and identify such group or organization. Also, note the capacity in which you appear, such as, attorney, officer or authorized spokesperson.

Any person who is heard or represented at this hearing or who requests notice may be given written notice of the final action taken on this SIP submittal. Please indicate on the appearance card if you wish to receive this notification. When appearance cards have been completed, they should be handed to me and I will include them with the official record of this proceeding.

Oral statements will be heard, but written statements may be handed to me or mailed to the Office of Air Quality on or before close of business on May, 20, 2011. A written transcript of this hearing is being made. The transcript will be open for public inspection and a copy of the transcript will be made available to any person upon payment of the copying cost.

After the conclusion of this public hearing, I will prepare a written report summarizing the comments received at this hearing and recommending changes which may need to be made to this document.

I would like to introduce the following documents into the record:

- 1) The notice of public hearing.
- 2) The Draft Request for Redesignation and Maintenance Plan under the annual NAAQS for fine particles for the Indiana portion of the Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles; Lake and Porter counties, Indiana.

Finally, I would like to briefly go over the contents of the draft documents.

In 1997, the United States Environmental Protection Agency (U.S. EPA) set daily and annual ambient air quality standards for fine particles at 15.0 micrograms per cubic meter on an annual basis and at 65.0 micrograms per cubic meter on a 24-hour or daily basis. Legal challenges to the new standards for fine particles resulted in delayed implementation of the standard until February 2001, when the Supreme Court upheld the standards and ruled that U.S. EPA could proceed with implementation of the new standards. This submittal pertains solely to the 1997 annual standard for fine particles. The Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles complies with both the 1997 and 2006 24-hour standards. Indiana began monitoring for fine particles in 1999. U.S. EPA originally designated counties under the fine particle standards based on 2001 through 2003 monitoring data in December 2004. U.S. EPA formally designated areas throughout the country on April 5, 2005, as attainment, nonattainment, or unclassifiable, including Lake and Porter counties, Indiana, as part of the Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles.

The Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles consists of Lake and Porter counties, Indiana, and Cook, DuPage, Kane, Lake, McHenry, and Will counties, and portions of Grundy (Aux Sable and Goose Lake Townships) and Kendall (Oswego Township) counties, Illinois.

The agencies responsible for assuring the nonattainment area complies with the CAA requirements are:

- The Illinois Environmental Protection Agency, which is responsible for Cook, DuPage, Kane, Lake, McHenry, and Will counties, and portions of Grundy (Aux Sable and Goose Lake Townships) and Kendall (Oswego Township) counties, Illinois; and,
- The Indiana Department of Environmental Management (IDEM), which is responsible for Lake and Porter counties, Indiana.

Indiana and Illinois have worked cooperatively with U.S. EPA Region V to address planning issues.

Lake and Porter counties, Indiana have complied with the annual standard for fine particles six consecutive years with values that are now well below the standard. Furthermore, photochemical modeling conducted by the State of Indiana, the Midwest Regional Planning Organization, and U.S. EPA demonstrates that beginning in 2011, Lake and Porter counties, Indiana will benefit greatly from the implementation of U.S. EPA's proposed Clean Air Transport Rule, with projected design values well below the standard and providing for an ample margin of safety. These modeling results are

considered to be conservative, as they do not include emission reductions that will occur as a result of several federal control programs including substantial off-road diesel fuel and engine reductions.

To meet the regulatory requirements put forth by U.S. EPA in relation to National Ambient Air Quality Standards, IDEM was required to submit a SIP (also known as an attainment SIP) no later than April 5th of 2008. In lieu of an attainment SIP that verifies to U.S. EPA that the area is "on target" to meet the annual NAAQS for fine particles based on monitoring and modeling information, IDEM deemed it more appropriate to submit a redesignation SIP that demonstrates that the area has already met the standard. On April 3, 2008, IDEM submitted a redesignation SIP to U.S. EPA for review and approval including a maintenance plan horizon year of 2020. U.S. EPA has not been able to act on the 2008 redesignation SIP due to a federal court's remand of the Clean Air Interstate Rule (CAIR). This remand prevents U.S. EPA from deeming the emission reductions that aided this area in attaining the standard as being permanent and enforceable. As such, U.S. EPA did not wish to proceed with approval of IDEM's 2008 submittal until a CAIR replacement rule is in place. On July 6, 2010, U.S. EPA proposed a replacement rule referred to as the Clean Air Transport Rule. This rule will be finalized this summer and at that time, U.S. EPA will be able to proceed with approving redesignations. As for the 2008 submittal, the maintenance plan horizon year of 2020 is no longer at least 10 years from the date of potential U.S. EPA approval. As such, IDEM is now submitting this updated redesignation SIP with a maintenance plan horizon year of 2025 as a direct replacement to the submittal from April of 2008.

It is important to note that U.S. EPA viewed IDEM's 2008 submittal for the Lake and Porter counties to be valid until such time that CAIR was remanded. Since that time, air quality has improved even further within the region and a replacement rule for CAIR will soon be in place.

Although Indiana and Illinois have worked together on a comprehensive plan for multi-state areas, each state is required to make a separate submittal for its portion of the planning components to U.S. EPA. As such, this submittal only covers Indiana's portion of the nonattainment area; Lake and Porter counties, Indiana.

The highest most recent design value for the area, based on 2008 through 2010 quality assured ambient air quality monitoring data is 12.7 micrograms per cubic meter. This design value represents fine particle concentrations that are below the NAAQS, thus the area is eligible to be redesignated to attainment under the annual standard for fine particles and classified as maintenance.

IDEM has prepared the draft Redesignation and Maintenance Plan under the annual NAAQS for fine particles for the Indiana portion of the Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles consistent with U.S. EPA guidance. The draft redesignation and maintenance plan outlines a demonstration that the area has attained the standard based on monitored concentrations, and that the reductions in monitored concentrations are attributable to permanent and enforceable reductions in precursor emissions, specifically reductions of nitrogen oxides (NO_x) and sulfur dioxide (SO₂). Furthermore, the draft maintenance plan outlines the following:

- Regional precursor emissions of NO_x and SO₂ will continue to decline in the future.
- Due to existing and future emission controls, the area's air quality is not projected to worsen, and should further improve over time.
- A commitment for all existing emission controls to remain in place.
- A commitment to revise the plan within eight years of redesignation.
- A commitment to adopt and expeditiously implement necessary corrective actions if an action level response is triggered.
 - An action level response is triggered by a violation of the standard (a three year average annual arithmetic mean value of 15.1 µg/m³ or greater) occurs.
- A mobile source budget for transportation conformity purposes.

This concludes my comments regarding the draft Redesignation and Maintenance Plan under the annual NAAQS for fine particles for the Indiana portion of the Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles. Before opening this hearing for public comments, may I once again remind you that this hearing pertains solely to this draft Redesignation and Maintenance Plan in association with the annual NAAQS for fine particles for Indiana's portion of the Chicago-Gary-Lake County, IL-IN Nonattainment Area for Fine Particles, and only comments pertaining to this matter will be considered as part of the public record.

Gale Ferris and I will be available following this hearing to address any questions you may have that do not pertain to this specific matter.

This hearing is now open for public comment. Are there any public comments?

In the absence of any further comments, these proceedings are hereby concluded. This hearing is adjourned.

COPY

ACCOUNT # 100174737

INDIANA DEPT OF ENVIRON. MGT. 61428

(Governmental Unit)

To POST-TRIBUNE

LAKE County, Indiana

1433 E. 83RD AVE., MERRILLVILLE, IN 46410-6307

PUBLISHER'S CLAIM

LINE COUNT

Display Master (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) -- number of equivalent lines -----

Head -- number of lines -----

Body -- number of lines -----

Tail -- number of lines -----

Total number of lines in notice -----

COMPUTATION OF CHARGES

69 lines, 3 columns wide equals	207 equivalent lines at	
cents per line 0.279		\$ 57.75
Additional charges for notices containing rule or tabular work (50 per cent of above amount)		\$ 0.00
Charge for extra proofs of publication (\$1.00 for each proof in excess of two)		\$ 0.00
TOTAL AMOUNT OF CLAIM		\$ 57.75

DATA FOR COMPUTING COST

Width of single column in picas 7.5

Size of type...7.0....point.

Number of insertions.....

1

Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper1..... times. The dates of publication being as follows:

61428

4/14/11

Additionally, the statement checked below is true and correct:

..... Newspaper does not have a Web site.

..X.. Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper.

..... Newspaper has a Web site, but due to technical problem or error, public notice was posted on

..... Newspaper has a Web site but refuses to post the public notice.

COPY

DATE: April 14, 2011

RECEIVED

APR 25 2011

TITLE:

CATHY CYNCAR

LEGAL CLERK

Cathy Cynkar

State of Indiana
Department of Environmental Management
Office of Air Quality

See table of legal rates in the applicable State Board of Accounts Bulletin

Claim No. _____ Warrant No. _____

IN FAVOR OF _____

\$ _____

ON ACCOUNT OF APPROPRIATION FOR _____

Appropriation No. _____

ALLOWED _____

IN THE SUM OF \$ _____

I have examined the within claim and hereby certify as follows:

That it is in proper form.

That it is duly authenticated as required by law.

That it is based upon statutory authority.

That it is apparently ☐ correct
☐ incorrect

I certify that the within claim is true and correct; that the services there in itemized and for which charge is made were ordered by me and were necessary to the public business

POST-TRIBUNE, MERRILLVILLE, IN

LEGAL NOTICE OF PUBLIC HEARING Redesignation Petition and Maintenance Plan In Association with the Annual Fine Particle (PM2.5) Standard Lake and Porter counties, Indiana

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on May 18, 2011. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the Annual Fine Particle (PM2.5) Standard, for Lake and Porter counties, Indiana. The meeting will convene at 5:30 p.m. (local time) in the large meeting room of the Lake County Public Library-Highland Branch, located at 2841 Jewett Street, Highland, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

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- Lake County Public Library-Highland Branch, located at 2841 Jewett Street, Highland, Indiana.
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- Gary Public Library, 220 West 5th Avenue, Gary, Indiana.
- Hammond Public Library, 564 State Street, Hammond, Indiana.
- Whiting Public Library, 1735 Oliver Street, Whiting, Indiana.

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**Lake and Porter Counties, Indiana Fine Particle (PM2.5)
Redesignation Petition and Maintenance Plan**
Scott Deloney, Chief
Air Programs Branch
Indiana Department of Environmental Management
Office of Air Quality - Mail Code 61-50
100 North Senate Avenue
Indianapolis, IN 46206-2251

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Indiana Department of Environmental Management - Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification. Pub: 4/14/2011 #61428

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APR 20 2011

Prescribed by State Board of Accounts

General Form No. 99P (Rev. 2009A)

IDEA

State of Indiana
Department of Environmental Management
Office of Air Quality
The Times Media Company

(Governmental Unit)

Porter County, Indiana

1111 Glendale Blvd., Valparaiso, IN 46383

PUBLISHER'S CLAIM

LINE COUNT

Display Master (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) -- number of equivalent lines -----

Head -- number of lines -----
Body -- number of lines -----
Tail -- number of lines -----
Total number of lines in notice -----

COMPUTATION OF CHARGES

127 lines, 1 columns wide equals 127 equivalent lines at 36.41 cents per line \$ 46.23
Additional charges for notices containing rule or tabular work (50 per cent of above amount) -----
Charge for extra proofs of publication (\$1.00 for each proof in excess of two) -----
TOTAL AMOUNT OF CLAIM \$ 46.23

DATA FOR COMPUTING COST

Width of single column in picas 9p4
Number of insertions: 1
Size of type 7.0 point.

26387748

Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper one (1) time. The dates of publication being as follows:

April 14, 2011

Additionally, the statement checked below is true and correct:

- Newspaper does not have a Web site.
..X.. Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper.
..... Newspaper has a Web site, but due to technical problem or error, public notice was posted on
..... Newspaper has a Web site but refuses to post the public notice.

Date April 15, 2011

Kate Stephens

Title: Legal Clerk

LEGAL ADVERTISING

See table of legal rates in the applicable State Board of Accounts Bulletin

Claim No. _____ Warrant No. _____

IN FAVOR OF
The Times Media Company
1111 Glendale Blvd., Valparaiso, IN 46383

\$ _____

ON ACCOUNT OF APPROPRIATION FOR

Appropriation No. _____

ALLOWED _____

IN THE SUM OF \$ _____

I have examined the within claim and hereby certify as follows:

That it is in proper form.

That it is duly authenticated as required by law.

That it is based upon statutory authority.

That it is apparently ☐ correct
☐ incorrect

I certify that the within claim is true and correct; that the services there in itemized and for which charge is made were ordered by me and were necessary to the public business

THE TIMES MEDIA COMPANY, VALPARAISO, IN

LEGAL NOTICE OF PUBLIC HEARING

Redesignation Petition and Maintenance Plan In Association with the Annual Fine Particle (PM_{2.5}) Standard Lake and Porter counties, Indiana

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on May 18, 2011. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the Annual Fine Particle (PM_{2.5}) Standard, for Lake and Porter counties, Indiana. The meeting will convene at 5:30 p.m. (local time) in the large meeting room of the Lake County Public Library-Highland Branch, located at 2841 Jewett Street, Highland, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

Lake and Porter counties, Indiana are part of the Chicago-Gary-Lake IL-IN Nonattainment Area for Fine Particles. This area was designated as nonattainment for the annual standard for fine particles and subject to the requirements of Section 172 of the Clean Air Act (CAA). One of the compliance requirements mandated by Section 172(c) of the CAA, is the development of a plan demonstrating that the area will continue to meet the annual standard for fine particles. This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (U.S. EPA) guidance.

Copies of the draft documents will be available on or before April 15, 2011 to any person upon request and at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate, Room N1003, Indianapolis, Indiana.
- Indiana Department of Environmental Management, Northwest Regional Office, 8380 Louisiana Street, Merrillville, Indiana.
- Crown Point Community Library, 214 South Court Street, Crown Point, Indiana.
- Lake County Public Library, Highland Branch, located at 2841 Jewett Street, Highland Indiana
- Valparaiso Public Library, 103 Jefferson Street, Valparaiso, Indiana.

- Gary Public Library, 220 West 5th Avenue, Gary, Indiana.
 - Hammond Public Library, 564 State Street, Hammond, Indiana.
 - Whiting Public Library, 1735 Oliver Street, Whiting, Indiana.
- The draft documents will also be available on the following web page:
<http://www.in.gov/idem/4658.htm>

Oral statements will be heard, but for the accuracy of the record, statements should be submitted in

writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

IDEM will also accept written comments through May 20, 2011. Mailed comments should be addressed to:

Lake & Porter Counties, Indiana
Fine Particle (PM_{2.5})
Redesignation Petition and Maintenance Plan
Scott Deloney, Chief
Air Programs Branch
Indiana Department of Environmental Management
Office of Air Quality -
Mail Code 61-50
100 North Senate Avenue
Indianapolis, IN 46206-2251

A transcript of the hearing and all written submissions provided at the public hearing shall be open to public inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing.

For additional information contact Mr. Gale Ferris, at the Indiana Department of Environmental Management, Air Programs Branch, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 234-3653 or (800) 451-6027 ext. 4-3653 (in Indiana).

Individuals requiring reasonable accommodations for participation in this hearing should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:

Attn: ADA Coordinator
Indiana Department of Environmental Management - Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

4/14 - 20387748

COPY

Prescribed by State Board of Accounts

80315-5797687

General Form No. 99P (Rev. 2009A)

IND DEPT OF ENVIRONMENTAL MANA
MARION COUNTY, INDIANA

To: INDIANAPOLIS NEWSPAPERS
307 N PENNSYLVANIA ST - PO BOX 145
INDIANAPOLIS, IN 46206-0145

PUBLISHER'S CLAIM

LINE COUNT

Display Matter - (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set). - number of equivalent lines

Head - Number of lines

Body - Number of lines

Tail - Number of lines

Total number of lines in notice

RECEIVED

APR 19 2011

State of Indiana
Department of Environmental Management
Office of Air Quality

COMPUTATION OF CHARGES

123.0 lines 2.0 columns wide equals 246.0 equivalent lines at .458
cents per line

\$ 112.67

Additional charge for notices containing rule and figure work (50 per cent of above amount)

Charges for extra proofs of publication (\$1.00 for each proof in excess of two)

.00

TOTAL AMOUNT OF CLAIM

\$ 112.67

DATA FOR COMPUTING COST

Width of single column 5.8 ems

Size of type 7

Number of insertions 1.0

Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper 1 times. The dates of publication being between the dates of:

04/15/2011 and 04/15/2011

Additionally, the statement checked below is true and correct:

☐ Newspaper does not have a Web site.

☒ Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper

☐ Newspaper has a Web site, but due to a technical problem or error, public notice was posted on _____

☐ Newspaper has a Web site but refuses to post the public notice.

Kerry Dodson

DATE: 04/15/2011

Title: Clerk

INDIANAPOLIS STAR AND NEWS, INDIANAPOLIS, IN

LEGAL NOTICE OF PUBLIC HEARING Redesignation Petition and Maintenance Plan in Association with the Annual Fine Particle (PM2.5) Standard

Lake and Porter counties, Indiana

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on May 18, 2011. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the Annual Fine Particle (PM2.5) Standard, for Lake and Porter counties, Indiana. The meeting will convene at 5:30 p.m. (local time) in the large meeting room of the Lake County Public Library-Highland Branch, located at 2841 Jewett Street, Highland, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

Lake and Porter counties, Indiana are part of the Chicago-Gary-Lake IL-IN Nonattainment Area for Fine Particles. This area was designated as nonattainment for the annual standard for fine particles and subject to the requirements of Section 172 of the Clean Air Act (CAA). One of the compliance requirements mandated by Section 172(c) of the CAA, is the development of a plan demonstrating that the area will continue to meet the annual standard for fine particles. This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (U.S. EPA) guidance.

Copies of the draft documents will be available on or before April 15, 2011 to any person upon request and at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate, Room N1003, Indianapolis, Indiana.
- Indiana Department of Environmental Management, Northwest Regional Office, 8380 Louisiana Street, Merrillville, Indiana.
- Crown Point Community Library, 214 South Court Street, Crown Point, Indiana.
- Lake County Public Library-Highland Branch, located at 2841 Jewett Street, Highland, Indiana.
- Valparaiso Public Library, 103 Jefferson Street, Valparaiso, Indiana.
- Gary Public Library, 220 West 5th Avenue, Gary, Indiana.
- Hammond Public Library, 564 State Street, Hammond, Indiana.
- Whiting Public Library, 1735 Oliver Street, Whiting, Indiana.

The draft documents will also be available on the following web page:

<http://www.in.gov/Idem/4658.htm>

Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

IDEM will also accept written comments through May 20, 2011. Mailed comments should be addressed to:

Lake and Porter Counties, Indiana Fine Particle (PM2.5) Redesignation Petition and Maintenance Plan
Scott Deloney, Chief
Air Programs Branch
Indiana Department of Environmental Management
Office of Air Quality - Mail Code 61-50
100 North Senate Avenue
Indianapolis, IN 46206-2251

A transcript of the hearing and all written submissions provided at the public hearing shall be open to public inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing.

For additional information contact Mr. Gale Ferris, at the Indiana Department of Environmental Management, Air Programs Branch, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 234-3653 or (800) 451-6027 ext. 4-3653 (in Indiana).

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Indiana Department of Environmental Management - Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

(S - 4/15/11 - 5797687)

BEFORE THE INDIANA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT

PUBLIC HEARING REGARDING
DRAFT REDESIGNATION PETITION AND
MAINTENANCE PLAN IN ASSOCIATION WITH
THE ANNUAL FINE PARTICLE (PM_{2.5}) STANDARD
FOR LAKE AND PORTER COUNTIES, INDIANA

PROCEEDINGS

COPY

in the above-captioned matter, before Hearing
Officer Scott Deloney, taken before me, Lindy L.
Meyer, Jr., a Notary Public in and for the State
of Indiana, County of Shelby, at the Lake County
Public Library, Highland Branch, 2841 Jewett
Street, Highland, Indiana, on Wednesday, May 18,
2011 at 5:37 o'clock p.m.

William F. Daniels, RPR/CP CM d/b/a
ACCURATE REPORTING OF INDIANA
12922 Brighton Avenue
Carmel, Indiana 46032
(317) 848-0088

1 APPEARANCES:

2 HEARING OFFICER:
3 Scott Deloney

4 OTHERS ON BEHALF OF IDEM:
5 Gale Ferris

6 SPEAKERS PRESENT:

7 Frank Gil
8 Mark Taylor
9 Jim Alexander
10
11
12
13
14
15
16
17
18
19
20
21
22
23

5:37 o'clock p.m.
May 18, 2011

THE HEARING OFFICER: This is a public hearing to accept comments concerning the draft Redesignation and Maintenance Plan under the National Ambient Air Quality Standards for fine particles for the Indiana portion of the Chicago-Gary-Lake County, Illinois-Indiana Nonattainment Area for Fine Particles, specifically, Lake and Porter Counties, Indiana.

This hearing is being held to conform to the provisions of 40 CFR Part 51 regarding public hearings for State Implementation Plan submittals.

My name is Scott Deloney. I am the Chief of the Indiana Department of Environmental Management's Air Programs Branch. I have been appointed to act as Hearing Officer for this public hearing. Also here with me from the Office of Air Quality is Gale Ferris.

Notice of the time and place for this hearing was given as provided by law by publication in the following newspapers: The

1 Indianapolis Star, located in Indianapolis,
2 Indiana; the Times, located in Munster, Indiana;
3 the Post-Tribune, located in Merrillville,
4 Indiana.

5 The purpose of this public hearing is to
6 provide interested persons an opportunity to
7 comment -- to offer comments to the state
8 regarding the draft Redesignation Petition and
9 Maintenance Plan under the annual National
10 Ambient Air Quality Standards for fine particles
11 for Lake and Porter Counties here in Indiana.

12 Appearance cards are available on the
13 table there next to the doors, and for those
14 desiring to be shown appearing on record for this
15 particular cause, we do ask that you please sign
16 the attendance registries. If you've not filled
17 out a comment card but you do plan on speaking,
18 please do fill out the comment card and indicate
19 if you are appearing for yourself or on behalf of
20 a group or organization and identify such group
21 or organization. Please also note the capacity
22 in which you appear. This will help us make sure
23 that the record properly reflects your

1 information as part of the formal record.

2 Any person who is heard or represented at
3 this hearing or who requests notice may be given
4 written notice of the final action taken on this
5 particular State Implementation Plan submittal.
6 Please indicate on the appearance card if you
7 wish to receive this notification. When
8 appearance cards have been completed, they should
9 be handed to me and I will include them as part
10 of the official record for this proceeding, and I
11 will also call upon you when there's opportunity
12 for you to comment.

13 Oral statements will be heard, but written
14 statements may be handed to me or mailed to the
15 Office of Air Quality if you don't care to offer
16 them orally here in public. Written comments may
17 be submitted to me this evening or to the Office
18 of Air Quality on or before close of business on
19 May 20th, 2011.

20 A written transcript of this hearing is
21 being made. The transcript will be open for
22 public inspection, and a copy of the transcript
23 will be available to any person upon request.

1 After the conclusion of this public
2 hearing, I will prepare a written report
3 summarizing the comments received at this hearing
4 and recommending changes which may need to be
5 made to the documentation as a result.

6 I would like to introduce the following
7 documents into the record: The first of which is
8 a notice for this particular public hearing; the
9 second is the Draft Request for Redesignation and
10 Maintenance Plan under the annual National
11 Ambient Air Quality Standards for fine particles
12 for the Indiana portion of the Chicago-Gary-Lake
13 County, Illinois-Indiana Nonattainment Area for
14 Fine Particles, more specifically, Lake and
15 Porter Counties here in Indiana.

16 Lastly, I would like to briefly go over
17 the contents of the draft documents. In 1997,
18 the United States Environmental Protection Agency
19 set daily and annual ambient air quality
20 standards for fine particles at 15 micrograms per
21 cubic meter on an annual basis and at 65
22 micrograms per cubic meter on a 24-hour or daily
23 basis.

1 Legal challenges to the new standards for
2 fine particles resulted in delayed implementation
3 of the standard until February of 2001, when the
4 Supreme Court upheld the standards and ruled that
5 U.S. EPA could proceed with implementation of the
6 new air quality standards.

7 This submittal pertains solely to the 1997
8 annual standard for fine particles. The
9 Chicago-Gary-Lake County, Illinois-Indiana
10 Nonattainment Area for Fine Particles complies
11 with both the 1997 and 2006 24-hour standards for
12 fine particles.

13 Indiana began monitoring for fine
14 particles in 1999. U.S. EPA originally
15 designated counties under the fine particle
16 standards based on 2001 through 2003 monitoring
17 data in December of 2004.

18 The United States Environmental Protection
19 Agency formally designated areas throughout the
20 country on April 5th, 2005 as attainment,
21 nonattainment or unclassifiable, including Lake
22 and Porter counties here in Indiana as part of
23 the Chicago-Gary-Lake County, Illinois-Indiana

1 Nonattainment Area.

2 The Chicago-Gary-Lake County,
3 Illinois-Indiana Nonattainment Area for fine
4 particles consists of Lake and Porter Counties as
5 well as Cook, DuPage, Kane, Lake, McHenry and
6 Will Counties, as well as portions of Grundy and
7 Kendall Counties in Illinois.

8 The agencies responsible for assuring the
9 nonattainment area complied with the Clean Air
10 Act requirements are: The Illinois Environmental
11 Protection Agency, which is responsible for Cook,
12 DuPage, Kane, Lake, McHenry and Will Counties, as
13 well as portions of Grundy and Kendall Counties
14 in Illinois; and, of course, the Indiana
15 Department of Environmental Management, which is
16 responsible for Lake and Porter Counties here in
17 Northwest Indiana.

18 Indiana and Illinois have worked
19 cooperatively with the United States
20 Environmental Protection Agency, specifically the
21 Region V Office, to address various planning
22 requirements in conjunction with the air quality
23 standards.

1 Lake and Porter Counties, Indiana complied
2 with the annual standard for fine particles for
3 six consecutive years with values that are now
4 well below the standard.

5 Furthermore, photochemical modeling
6 conducted by the State of Indiana as well as the
7 Midwest Regional Planning Organization and the
8 United States Environmental Protection Agency
9 demonstrates that beginning in 2011, Lake and
10 Porter Counties, Indiana will benefit greatly
11 from the implementation of the United States
12 Environmental Protection Agency's proposed Clean
13 Air Transport Rule, which projected design --
14 which projects our monitored concentrations to be
15 even further below the standard and providing for
16 a larger and ample margin of safety.

17 These modeling results are considered to
18 be conservative, and they do not include emission
19 reductions that will occur as a result of several
20 federal control programs, including substantial
21 off-road diesel fuel and engine reductions.

22 To meet the regulatory requirements put
23 forth by the U.S. EPA in relation to the National

1 Ambient Air Quality Standards, IDEM was required
2 to submit a State Implementation Plan, also known
3 as an Attainment Plan, no later an April 5th
4 of 2008.

5 In lieu of this attainment plan that
6 verifies to U.S. EPA that the area is in fact on
7 target to meet the annual National Ambient Air
8 Quality Standard for fine particles, based on
9 monitoring as well as modeling information, the
10 Department of Environmental Management deemed it
11 more appropriate to submit a request to
12 redesignate the area based on a demonstration
13 that the area has already met the air quality
14 standard.

15 On April 3rd, 2008, the Department of
16 Environmental Management submitted a
17 redesignation request to U.S. EPA for review and
18 approval, including a maintenance plan that
19 included a horizon year of 2020, meaning that we
20 demonstrated that the area would continue to meet
21 the standard to the year 2020.

22 U.S. EPA has not been able to act on that
23 2008 submittal due to a Federal Court's remand of

1 the Clean Air Interstate Rule. This remand
2 prevents the U.S. EPA from deeming the emission
3 reductions that aided this area in attaining the
4 standard as being permanent and enforceable.

5 As such, U.S. EPA did not wish to proceed
6 with approving the Department of Environmental
7 Management's 2008 submittal until a replacement
8 rule for this particular federal program was in
9 place.

10 On July 6, 2010, U.S. EPA proposed a
11 replacement rule, referred to as the Clean Air
12 Inter -- Clean Air Transport Rule. This rule
13 will be finalized this summer, and at that time
14 the United States Environmental Protection Agency
15 will be able to proceed with approving
16 redesignation requests such as this.

17 As for the 2008 submittal, the maintenance
18 plan horizon year of 2020 is no longer at least
19 ten years from the date of federal action. As
20 such, the Department of Environmental Management
21 is now submitting this updated implementation
22 plan with a maintenance plan horizon year
23 of 2025. This will be a direct replacement to

1 the submittal from April of 2008.

2 It is important to note that the United
3 States Environmental Protection Agency viewed the
4 Department of Environmental Management's 2008
5 submittal for the Lake and Porter Counties to be
6 valid until such time that the Clean Air
7 Interstate Rule was remanded by a Federal Court.
8 Since that time air quality has improved even
9 further within the region, and a replacement rule
10 for the Clean Air Interstate Rule will soon be in
11 place.

12 Although Indiana and Illinois have worked
13 together on a comprehensive plan for multistate
14 areas, each state is required to make a separate
15 submittal for its portion of the plan and
16 components to the United States Environmental
17 Protection Agency. As such, this submittal only
18 covers Indiana's portion of the nonattainment
19 area, that, again, being limited to just Lake and
20 Porter Counties here in Indiana.

21 The highest most recent design value for
22 the area, based on 2008 through 2010 quality
23 assured ambient air quality monitoring data is

1 12.7 micrograms per cubic meter. This design
2 value represents fine particle concentrations
3 that are below the National Ambient Air Quality
4 Standard, thus the area is eligible to be
5 redesignated to attainment under the annual
6 standard for fine particles and classified as
7 maintenance.

8 IDEM has prepared this draft Redesignation
9 and Maintenance Plan under the annual ambient air
10 quality standards for fine particles for the
11 Indiana portion of the nonattainment area
12 consistent with U.S. EPA guidance.

13 The draft Redesignation and Maintenance
14 Plan outlines a demonstration that the area has
15 attained the standard based on actual monitored
16 concentrations throughout the area, and that the
17 reductions in monitored concentrations are
18 attributable to permanent and enforceable at
19 reductions in precursor emissions, specifically
20 reductions of nitrogen oxides and sulfur dioxide.

21 Furthermore, the draft Maintenance Plan
22 outlines the following: Regional precursor
23 emissions of oxides of nitrogen and sulfur

1 dioxide will continue to decline in the future;
2 due to existing and future emission controls, the
3 area's air quality is not projected to worsen,
4 and should only further improve over time; a
5 commitment for all existing emission controls to
6 remain in place; a commitment to revise the plan
7 within eight years of redesignation; a commitment
8 to adopt and expeditiously implement necessary
9 corrective actions if an action level response is
10 triggered, meaning if there is any unexpected
11 reason air quality should worsen in the area, an
12 action level response would require us to
13 immediately act in order to reverse that trend;
14 this also includes a mobile source emission
15 budget for transportation conformity purposes.

16 This does conclude my comments regarding
17 the draft Redesignation and Maintenance Plan
18 under the annual ambient air quality standards
19 for fine particles for Indiana's portion of the
20 nonattainment area.

21 Before opening this hearing for public
22 comments, may I once again remind you that this
23 hearing pertains solely to this particular

1 Redesignation and Maintenance Plan in conjunction
2 with the annual standard for fine particles, and
3 only comments pertaining to this matter would be
4 considered as part of the official record.

5 Gale Ferris I will available during as
6 well as after the hearing should you have any
7 questions that you care to ask or discuss off the
8 record as well.

9 With that, I would like to now open this
10 hearing for public comments. Are there any
11 comments relative to this topic?

12 Yes, sir.

13 MR. GIL: I don't know if this is
14 related, but USX is -- they're doing that coke
15 plant, the new batteries.

16 THE HEARING OFFICER: Uh-huh.

17 MR. GIL: Do you know what I'm
18 talking about?

19 THE HEARING OFFICER: Yes.

20 MR. GIL: Does that have anything to
21 do with the new standards? Do they have meet
22 that, or are they doing according to the old
23 standard?

1 THE HEARING OFFICER: Yes. Would you
2 mind providing your name just to make sure we can
3 get it on the record properly?

4 MR. GIL: Frank Gil, Hammond.

5 THE HEARING OFFICER: Okay. Gil,
6 G i l?

7 MR. GIL: Yes.

8 THE HEARING OFFICER: Okay. Thanks,
9 Frank. Yeah, basically that is what -- it would
10 be referred to as a permit modification, and
11 it -- but before that project could be complete
12 or operational, our agency, in conjunction with
13 technical staff with the United States
14 Environmental Protection Agency, have to conduct
15 an analysis to determine that the project, once
16 constructed and operational, wouldn't in fact
17 jeopardize our ability to comply with the ambient
18 air quality standards, so it ensures that there's
19 no backsliding with where we're at today.

20 MR. GIL: Is it actually going to
21 improve the quality of the air particles in that
22 immediate area?

23 THE HEARING OFFICER: It -- yeah,

1 actually -- and if -- it's actually a very
2 interesting project, because we have a power
3 plant project in Southern Indiana that's very
4 similar, where you're replacing an older
5 technology with a newer technology, and the newer
6 technology is much -- the technology and the
7 process is much cleaner, so we suspect that the
8 project would contribute to improved air quality
9 in comparison with, you know, how the facility
10 would have operated in previous history.

11 Any other comments or questions?

12 Yes, Frank.

13 MR. GIL: We're so close to Chicago,
14 being a big city, and then you've got Michigan
15 nearby, and then Ohio, they have all of those
16 steel plants and what have you. Are the
17 standards the same nationwide, or --

18 THE HEARING OFFICER: Yeah, they are,
19 they're National Ambient Air Quality Standards.
20 They're established by the Federal Government and
21 they apply nationwide, the lower 48 as well as in
22 Alaska and Hawaii and Puerto Rico.

23 MR. GIL: One more question: We were

1 in the nonattainment zone or whatever you want to
2 call it.

3 THE HEARING OFFICER: Right.

4 MR. GIL: Now all of the sudden -- I
5 heard that we're out of it, but now I hear we're
6 going to go back into it because they're going to
7 have tougher standards.

8 THE HEARING OFFICER: Yeah. First of
9 all, let me address the first part of that, and
10 that is, is that for this particular air quality
11 standard, we measure air quality throughout
12 Northwest Indiana. We have multiple sites in
13 Lake County, multiple sites in Porter, and
14 multiple sites in La Porte, and since 2004 we've
15 measured air quality consistently year-round
16 through 2010, as well as through 2011 to date,
17 that's well below that standard.

18 And if we are successful in getting this
19 area reclassified to attainment, it'll be the
20 first time in decades that Lake and Porter
21 Counties are actually designated attainment for
22 all pollutants, so to us, that's really important
23 because it means that all of the citizens here

1 are breathing air quality that meets the ambient
2 air quality standards, which are health based.

3 But second, it does clear the slate for us
4 to prepare for and respond to new air quality
5 standards as they are developed. Right now the
6 Federal Government reviews the standards once
7 every five years to ensure that they are
8 sufficiently protective of public health.

9 So, each standard, for which there are
10 six, each of those six are reviewed once every
11 five years, so what we end up with is, for a
12 minimum of one, but sometimes two, new air
13 quality standards are released each year, and so
14 the Federal Government is in the process of
15 reviewing and considering a new standard for
16 carbon monoxide, ozone, as well as for
17 particulate matter.

18 Last year they released a new one for
19 nitrogen dioxide as well as for sulfur dioxide,
20 and this year they're scheduled to release a new
21 one for carbon monoxide and ozone. So, as the
22 bar is lowered, there will be situations where
23 new portions of the state, and possibly Northwest

1 Indiana, could be in violation of those standards
2 once they're lowered.

3 The trend in air qualities going like
4 this, but just because you're below this line
5 doesn't mean you're going to be below this line
6 if this line's moved to here. But at this point
7 in time we don't know what those lines are going
8 to be, you know, where they're going to be
9 placed, so we don't know whether the area would
10 be above them or below them.

11 Just to give you an example, the ozone
12 standard, EPA is looking at a range of 60 to 70
13 parts per billion. If the standard is set at 70,
14 the area will be in good shape. If it's set
15 anywhere lower than 70, we may have a challenge.
16 But by the time EPA starts implementing the
17 standard, we may in fact be in attainment of that
18 standard again, even if that's set below 70.

19 So, a lot of it just depends on how fast
20 EPA acts on the standard and then how fast they
21 go through designating areas in conjunction with
22 that standard.

23 Any other comments?

1 MR. TAYLOR: What's this going to
2 mean for local industries besides U.S. Steel?

3 THE HEARING OFFICER: Okay. Do you
4 mind if I --

5 MR. TAYLOR: I'm Mark Taylor, from
6 the Post-Tribune.

7 THE HEARING OFFICER: From the
8 Post-Tribune.

9 MR. TAYLOR: I'm sorry. I should --

10 THE HEARING OFFICER: Okay.

11 MR. TAYLOR: I should have identified
12 my myself.

13 THE HEARING OFFICER: I just want to
14 make sure that --

15 MR. TAYLOR: Yeah.

16 THE HEARING OFFICER: -- Lindy has
17 your name for the record.

18 MR. TAYLOR: No trouble.

19 THE HEARING OFFICER: What it means
20 for -- this particular action, what does it mean
21 for local industry? The most significant,
22 associated with this particular action is, is
23 that it does alleviate certain requirements

1 associated with permitting. The permitting
2 program for Lake and Porter Counties would move
3 from a nonattainment new source review permitting
4 to what would be referred to as an attainment NSR
5 or prevention of significant deterioration
6 program.

7 What that means is, is that it is easier
8 for sources to secure an operating permit. It's
9 less costly to secure an operating permit;
10 however, there is additional burden that's put on
11 the state to ensure that the issuance of that
12 permit doesn't in fact result in any sort of
13 backsliding with regard to what we've achieved
14 with air quality.

15 MR. TAYLOR: How does that part work,
16 to avoid the backsliding?

17 THE HEARING OFFICER: To avoid the
18 backsliding? When we receive a permit
19 application, we have to go through a detailed
20 evaluation of what the impact of that particular
21 project would be. That includes a dispersion
22 modeling test to determine what the actual impact
23 on concentrations for a specific pollutant would

1 be in the area that the project would occur.

2 That becomes part of the technical support
3 document associated with the permit, and I can
4 tell you that the modeling is actually much more
5 conservative than monitoring is, because
6 monitoring is measuring what actual emission
7 levels are or, you know, would be, and then your
8 modeling is always assuming a worst-case
9 scenario, potential to emit, and that potential
10 to emit is usually you quite higher than what the
11 actual emission rates are.

12 MR. TAYLOR: now, the -- we've, of
13 course, had to go through auto emission checks
14 for a long time in Northwest Indiana. If we --
15 if we are being reclassified as an attainment
16 area, if this -- this still requires EPA
17 approval; is that right?

18 THE HEARING OFFICER: Yeah, this
19 particular action does require Federal Government
20 approval, and specifically the Environmental
21 Protection Agency. However, one of the things
22 that I did mention that was included as a
23 commitment within this particular submittal,

1 which is a prerequisite for federal approval, is
2 a commitment on behalf of the state to maintain
3 all existing emission control programs, which
4 means that in order to secure approval, all
5 existing emission control programs, including the
6 vehicle emissions testing program, would remain
7 in place.

8 MR. TAYLOR: So, we're still going to
9 have to go through the emission checks?

10 THE HEARING OFFICER: That's correct.
11 The clean air car check program is here to stay
12 in Northwest Indiana. It has been a very, very
13 important piece to the air quality improvements
14 that have been achieved here.

15 MR. TAYLOR: And this is permanent?

16 THE HEARING OFFICER: Well, certainly
17 at this point in time. You know, the gentleman
18 behind you, Frank, had asked a question earlier
19 with regard to, you know, the possibility of the
20 standards being tightened and us being back in
21 the same boat all over again.

22 MR. TAYLOR: Uh-huh.

23 THE HEARING OFFICER: That's the

1 hurdle that we have with the emissions testing
2 program is, is that before we could possibly jump
3 through the hurdles to eliminate the program
4 here, there would be a new air quality standard
5 in place that would prohibit us from being able
6 to proceed further. The standard that -- the
7 pollutant and the standard that that program was
8 in place for is the ozone standard.

9 MR. TAYLOR: Uh-huh.

10 THE HEARING OFFICER: This pertains
11 to particulate matter or fine particles. EPA is
12 going to be issuing a new ozone standard next --
13 or by the end of this July, no later an July 30th
14 of this year. So -- and that is something that
15 we are anticipating that will likely affect a lot
16 of areas in Indiana, including Northwest Indiana,
17 depending on where that standard is set. But
18 it's those actions that are really going to
19 dictate how long the program remains in place.

20 Frank?

21 MR. GIL: There is a major power
22 plant in Hammond, by Lake Michigan, Chicago
23 border.

1 THE HEARING OFFICER: Uh-huh.

2 MR. GIL: They're going to go out of
3 existence, I hear, in -- by less than --

4 THE HEARING OFFICER: By 2012?

5 MR. GIL: Yeah, pretty soon. They --
6 these new standards that are about to be, do you
7 think that had an influence on that power plant?

8 THE HEARING OFFICER: Yeah. One of
9 the standards that I mentioned from last year was
10 the sulfur -- the new standard for sulfur
11 dioxide. Dominion Energy, which owns the State
12 Line Power Plant, had informed our Department
13 that that new standard was what dictated their
14 time line for closing, because that particular
15 standard would have required the state to
16 establish an emission limit much lower than they
17 were capable of achieving in order to comply with
18 the standard itself.

19 MR. TAYLOR: Is that nitrous oxide,
20 did you say?

21 THE HEARING OFFICER: Sulfur dioxide.

22 MR. TAYLOR: Sulfur dioxide.

23 THE HEARING OFFICER: Yes. In

1 addition to that standard, there are a lot of
2 other new federal requirements that the facility
3 would have to meet, too, and, you know, based on
4 what I've read, which is the same information
5 that you have access to here, you know, it's a
6 combination of those factors that they simply
7 determined it wouldn't be cost effective to
8 continue operating.

9 MR. GIL: That entity had I think
10 it's 120 jobs they're going to lose.

11 THE HEARING OFFICER: Uh-huh.

12 MR. GIL: And there is another -- I
13 live in Hammond -- there is another place called
14 Jupiter Aluminum. Did you ever --

15 THE HEARING OFFICER: Yes.

16 MR. GIL: -- hear of them?

17 THE HEARING OFFICER: Uh-huh.

18 MR. GIL: I think they're not in
19 compliance. It sure the heck smells over there.
20 But do you think that they're going to go away
21 because of these standards?

22 THE HEARING OFFICER: No, I wouldn't
23 make any prediction with regard to what's going

1 to happen with business as air quality standards
2 are tightened. I think one thing that's
3 important to point out is, is where we are at in
4 Northwest Indiana is a better place than we have
5 been in decades. You know, in the past we've had
6 portions of, you know, Lake County designated for
7 multiple standards at the same time.

8 As of today, the standard that we're
9 talking about today is the only standard that the
10 area is designated for, and that -- you know,
11 we're pretty confident that our demonstration is
12 going to receive federal approval, which means
13 that this will be the first time in decades
14 this -- these two counties are going to be in
15 attainment for all air pollutants.

16 Now, when we look at dealing with new air
17 quality standards in the future, certainly it'll
18 present new challenges, but those challenges
19 won't be unlike what we will see elsewhere in the
20 state.

21 I can tell you here in Northwest Indiana
22 another reason why the clean air car check
23 program was so important. When we look at

1 precursor emissions and what the impact is on
2 pollutants like carbon monoxide, ozone, fine
3 particles and nitrogen dioxides, mobile sources,
4 cars and trucks, are the largest contributor.

5 That wasn't the case in the early 1990's,
6 but today, if you were looking at trying to
7 address air quality problems in this region, you
8 would have to look at mobile sources. Industry
9 in Northwest Indiana is controlled to -- in a
10 more stringent fashion than you will find
11 anywhere else in Indiana and in very few other
12 places across the country.

13 MR. GIL: You mentioned trucks. The
14 over-the-road truckers, I think now when they
15 like pull to a truck stop overnight, I think they
16 charge up their engines or motors with
17 electricity now instead of having the engine run.

18 THE HEARING OFFICER: Uh-huh.

19 MR. GIL: Is that going to be the
20 standard, or are they going to be forced
21 nationwide? Is this going to be common now?

22 THE HEARING OFFICER: Well, it's
23 actually a voluntary program. I mean we hope

1 that that's what, you know, all truckers decide
2 to do, but one of the things that's really
3 driving it at a much more rapid pace are fuel
4 prices. You know, one gal -- if you're vehicle
5 is idling, a heavy-duty vehicle is idling, it
6 burns one gallon of fuel every eight hours just
7 idling.

8 And, you know, if diesel fuel is over four
9 dollars a gallon and you own a fleet of 40
10 trucks, you know, that's -- that adds up to real
11 cash. And there are a number of things that you
12 can do that will still provide you all of the
13 creature comforts within your cab that you can,
14 you know, shut your engine off. Electricity is
15 one, shore power, where you plug in at the truck
16 stop.

17 Another is what is referred to as an
18 auxiliary power unit that runs on battery power,
19 or a small gasoline motor that would only burn
20 one gallon of gas for every 30 hours of
21 operation. So, there are a number of things.

22 We have a program, if you're interested,
23 with the Department of Environmental Management

1 referred to as Diesel Wise. If you go to
2 dieselwise.in -- I think it's dieselwise -- or
3 excuse me -- in.gov.dieselwise -- or it's in --
4 yeah, in.gov/dieselwise, but that program is
5 making federal and state money available to
6 municipal as well as private companies across the
7 state that operate diesel vehicles in order to
8 achieve just that, reduction in idling time. The
9 less idling there is, the fewer emissions there
10 are. And diesel-powered vehicles are a very
11 large contributor of particulate matter.

12 So, for us, you know, oxides of nitrogen
13 and soot or particulate from diesel, both of
14 those are coming out at the tailpipe or exhaust
15 pipe on a diesel vehicle and both of those are
16 significant contributors to particulate matter,
17 which is, you know, the air quality standard that
18 we're discussing tonight.

19 MR. TAYLOR: Just to play Devil's
20 advocate, we're located in the Crossroads of
21 America. We have three or four interstates
22 dissecting us. While we are required to get our
23 emissions tested, those of us who live around

1 here, we're also impacted, I don't think in a
2 small way, by all of the passing traffic
3 coming --

4 THE HEARING OFFICER: Uh-huh.

5 MR. TAYLOR: -- you know, from east
6 and west and north and south that are coming
7 through here that -- who aren't being checked.
8 Has there ever been an effort made -- and I'm not
9 even sure how you could test that -- to determine
10 how much of this is, I don't know, alien,
11 foreign, outside of our area?

12 I'm not sure of the right categorization,
13 but I mean I could imagine us being permanently
14 on a non -- I mean even if we are, as you said,
15 in an attainment state, we're still required to
16 do the emissions checks even though it may not be
17 our contributions that are giving us so much of
18 this particular [sic] matter.

19 THE HEARING OFFICER: Yeah, actually
20 there are two things that are done on a very
21 routine basis to determine just exactly what the
22 impact of the local fleet is compared to the
23 fleet that accumulates vehicle miles traveled

1 through Lake and Porter County but originate
2 outside of Lake and Porter County.

3 The first of which is for transportation
4 conformity purposes. We have to determine what
5 portion of that -- that vehicle miles traveled is
6 coming from vehicles registered outside the two
7 counties. That is all incorporated as part of
8 the travel demand model for the Northwest Indiana
9 Regional Planning Commission, which the
10 metropolitan planning organization for the area.
11 They could certainly give you statistics with
12 regard to that, and that's done through a number
13 of travel studies.

14 The second is, is that a component of our
15 vehicle emissions testing program, we have to
16 test a portion of the fleet that's registered
17 outside of the county that's operating within the
18 county. That gives us really valuable
19 statistics. One, it gives us a fraction for what
20 portion of the vehicles that we're capturing
21 roadside are deriving from outside the counties.
22 We get that based on the license plate data.

23 But two, it gives us information on what

1 is the difference in the emission factor coming
2 out of that vehicle compared with the emission
3 factor for a vehicle registered in Lake and
4 Porter County. We're required to collect that
5 information and present it to the U.S. EPA on an
6 annual basis in order to demonstrate whether or
7 not we're meeting the requirements associated
8 with our emissions testing program.

9 You know, we're achieving significant
10 reductions in Lake and Porter County, but at the
11 same time, we'd have to acknowledge that a
12 portion of the emissions that are occurring here
13 are for vehicles that aren't registered in Lake
14 and Porter Counties, but that's no different than
15 where a vehicle emissions testing program is
16 required anywhere else.

17 MR. TAYLOR: Do you know what that
18 percentage would be?

19 THE HEARING OFFICER: It's less than
20 half.

21 MR. TAYLOR: Really? Okay. Less
22 than half is attributable to sources registered
23 outside of Lake and Porter County?

1 THE HEARING OFFICER: (Nodded yes.)

2 MR. TAYLOR: Okay.

3 THE HEARING OFFICER: Yes.

4 MR. ALEXANDER: Yeah, Scott. I'm Jim
5 Alexander. I'm the Air Compliance Manager at
6 U.S. Steel, Gary Works. I just wanted to say
7 that we certainly support the agency's efforts in
8 redesignation.

9 THE HEARING OFFICER: Okay.

10 MR. ALEXANDER: And it's important to
11 recognize the hard work that the agencies have
12 done, that industry, businesses, the citizens and
13 other organizations have done, to improve the
14 quality of air.

15 It's also critical to the economy of
16 Northwest Indiana that we achieve and get
17 recognized for attainment, for some of the
18 permitting reasons that Scott talked about or
19 Frank talked about, the 120 jobs lost. This type
20 of designation makes a type of investment at Gary
21 Works, in the new coke technology that you were
22 discussing, possible. So, I just wanted to state
23 our support for the redesignation effort.

1 THE HEARING OFFICER: Thank you.

2 Any other comments?

3 Frank.

4 MR. GIL: Oh, in Hammond, it's
5 Indianapolis Boulevard, Summer Street, in that
6 area, you've got that Nine Span Bridge over
7 there; are you familiar? They're doing some
8 major work over there. I think it's going to
9 intermodal transportation, something to that
10 effect. Intermodal transportation, is that the
11 in thing now for saving as far as particles in
12 the air?

13 THE HEARING OFFICER: Yeah, any time
14 you're increasing the occupancy rate of travel,
15 it's good for air quality. What I mean by that
16 is, on average, the average vehicle only contains
17 1.2 passengers. Most people drive to work alone
18 and drive home alone. The more people that you
19 get in a vehicle at a time, the better it is for
20 air quality, because that means a car is left
21 behind some place else.

22 So, public transportation, ride sharing,
23 reliance on the South Shore, you know, riding

1 your bike, you know, all of those things are, you
2 know, very, very important to air quality, but in
3 many places they're considered permanent
4 enforceable reduction measures, too. Northwest
5 Indiana is blessed with one of the greatest
6 transportation resources in the country in the
7 South Shore Railroad.

8 MR. TAYLOR: So, how does this -- how
9 do we compare to the rest of the state? I mean I
10 know that you're saying that this would be the
11 first time we've achieved attainment in all
12 categories of pollutants, air pollutants; right?

13 THE HEARING OFFICER: Right.

14 MR. TAYLOR: So, that's Lake and
15 Porter County. Are there other parts of the
16 state that are in the same boat we're in?

17 THE HEARING OFFICER: Indianapolis,
18 Evansville, our portion of Louisville, our
19 portion of Cincinnati -- let's see. I think that
20 that's --

21 MR. FERRIS: Seems like that's it.

22 THE HEARING OFFICER: I think that is
23 it right now.

1 MR. TAYLOR: And those areas are also
2 not in attainment currently?

3 THE HEARING OFFICER: That's correct.

4 MR. TAYLOR: What -- or how does the
5 state benefit by Lake and Porter County becoming
6 an attainment level area?

7 THE HEARING OFFICER: Well, the way
8 that the state benefits --

9 MR. TAYLOR: I mean is there a
10 financial benefit to the state or other things
11 that accrue as a result of our achieving this
12 status?

13 THE HEARING OFFICER: No, I think
14 that the most important aspect for us is, is it
15 cleans the slate, because, you know, EPA will
16 issue a new tighter standard for fine particles
17 in the future.

18 We want to definitely put this chapter
19 behind us so that when we are dealing with that
20 new standard, there's no question with regard to
21 what the requirements apply, because we've closed
22 this chapter. We are designated attainment at
23 the time that we're looking at implementing a new

1 air quality standard.

2 When an area falls under two standards for
3 the same pollutant, it just really makes things
4 extremely complex and muddy when it comes to
5 implementing the various prescribed requirements
6 for that specific pollutant.

7 We ran into that here in Northwest Indiana
8 with the most recent ozone standard. The area
9 was affected under the one-hour ozone standard,
10 EPA revoked it, we hadn't gotten a redesignation
11 secured, and then we were designated under a new
12 eight-hour ozone standard.

13 Well, what happened was is that there were
14 all of these requirements under the one-hour
15 standard that we had to meet that weren't
16 required under the eight-hour standard, and it
17 led to an awful lot of confusion, but also it
18 resulted in us having to do things that we
19 wouldn't have had to do had we gotten
20 redesignated prior to the eight-hour standard
21 kicking in. So, we've learned from past history,
22 starting with a clean slate when you're dealing
23 with a new air quality standard is a good

1 position to be in.

2 MR. TAYLOR: Scott, do you have a
3 copy of what you read us? I was furiously taking
4 notes, but --

5 THE HEARING OFFICER: Oh, yeah, I do.

6 MR. TAYLOR: -- I don't pretend I
7 caught every single word of it.

8 THE HEARING OFFICER: I apol -- I'll
9 let you walk away with one this evening.

10 MR. TAYLOR: All right. Swell.

11 THE HEARING OFFICER: Any other
12 questions or comments?

13 (No response.)

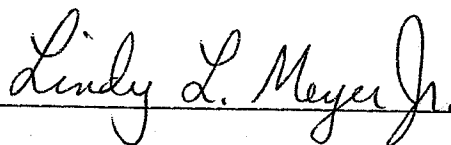
14 THE HEARING OFFICER: If not, I will
15 go -- I am going to go ahead and close the
16 proceedings, but Gale and I are going to continue
17 to be available this evening for any additional
18 questions or discussion that you'd like to have.

19 With that, this public hearing is now
20 closed. Thank you.

21 - - -
22 Thereupon, the proceedings of
23 May 18, 2011 were concluded
at 6:20 o'clock p.m.
- - -

1 CERTIFICATE

2 I, Lindy L. Meyer, Jr., the undersigned
3 Court Reporter and Notary Public residing in the
4 City of Shelbyville, Shelby County, Indiana, do
5 hereby certify that the foregoing is a true and
6 correct transcript of the proceedings taken by me
7 on Wednesday, May 18, 2011 in this matter and
8 transcribed by me.

9
10 

11 Lindy L. Meyer, Jr.,

12 Notary Public in and

13 for the State of Indiana.

14
15 My Commission expires October 27, 2016.
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Lake and Porter Counties, Indiana Redesignation Request and Maintenance Plan in Association with the Annual Fine Particle (PM_{2.5}) Standard

Summary/Response to Comments Received at the Public Hearing

On May 18, 2011, the Indiana Department of Environmental Management (IDEM) conducted a public hearing in Highland, Indiana concerning the draft Redesignation Request and Maintenance Plan for Lake and Porter counties, Indiana. No substantive comments pertaining to the redesignation petition and maintenance plan were received at the public hearing.

Summary/Response to Comments Received During the Comment Period

IDEM requested public comment on the draft Redesignation Request and Maintenance Plan for Lake and Porter counties, Indiana from April 8, 2011 to May 20, 2011. IDEM received comments from the following parties:

Legend

- Comment
- Response

Constantine J. Dillon, Superintendent, National Park Service (CD)

- The National Park Service is pleased that IDEM has conducted intensive data collection from Lake and Porter counties, Indiana and are encouraged that the data indicates that these counties have attained the annual standard for fine particles. However, we urge caution in redesignating Lake and Porter counties to attainment and ask that the close proximity of two large coal-fired power plants to the Indiana Dunes National Lakeshore, a federally designated Class II Air Quality site, be taken into consideration. (CD)
- Lake and Porter counties are solely designated nonattainment under the 1997 annual National Ambient Air Quality Standard (NAAQS) for fine particles. NAAQS are set by the United States Environmental Protection Agency (U.S. EPA) at levels determined to be protective of public health and the environment. In 2006, the U.S. EPA determined that the current annual NAAQS for fine particles are sufficiently protective of public health and the environment. Lake and Porter counties have measured air quality that meets the annual NAAQS for fine particles for six consecutive years and are thereby eligible for redesignation under the Clean Air Act (Section 107(d)(3)).

Both NO_x and SO₂ emissions from coal-fired power plants are decreasing substantially in Lake and Porter counties, Indiana, as well as throughout the region in response to national programs affecting all of these types of facilities, such as the Acid Rain program and the NO_x SIP Call. Lake and Porter counties are also subject to the most stringent group of emission controls in the state. This collection of permanent and enforceable controls is as stringent or more stringent than those that apply elsewhere within the nonattainment area. If emissions start increasing after the area is redesignated, or monitored violations occur, as part of the maintenance plan, IDEM commits to taking swift action in order to reverse the trend and take whatever action is necessary to ensure that air quality is reattained as expeditiously as possible.

- The National Park Service does not support any reduction in monitoring requirements for the region and remains skeptical of future decreases in local emissions based on existing and future emission controls. (CD)
- If Lake and Porter counties are redesignated to attainment and classified to maintenance under the annual NAAQS for fine particles, IDEM is committed to assuring that air quality is maintained. The Clean Air Act requires areas with maintenance plans to ensure that no backsliding occurs with regard to measured air quality. Precursor emissions that contribute to fine particle concentrations cannot increase over time.

IDEM is committed to continue operating an appropriate monitoring network in Lake and Porter counties to verify that the area is in compliance (maintenance) with the standard. IDEM will consult with U.S. EPA Region V staff prior to making any changes to the existing Indiana monitoring network through the annual network review should any changes become necessary in the future.

The redesignation petition and maintenance plan addresses future year modeling with national, regional, and local emission control strategies already in place and strategies to be implemented in the next few years. Air quality is projected to improve over the next ten years and the area is expected to continue to attain the current annual NAAQS for fine particles. Indiana has performed an analysis that shows that the improvements in air quality are due to permanent and enforceable measures and that additional significant regional reductions in nitrogen oxides (NO_x) and sulfur dioxide (SO₂) following implementation of the Phase II NO_x SIP Call and the Clean Air Interstate Rule or its replacement rule, will ensure continued compliance (maintenance) with the standard. Furthermore, emission projections indicate that NO_x and SO₂ emissions will continue to decline, ensuring that the area will continue to comply with the standard and provide for an increased margin of safety.

OFFICIAL ELECTRONIC CORRESPONDENCE

No Hard Copy to Follow
NATIONAL PARK SERVICE
Indiana Dunes National Lakeshore
1100 N. Mineral Springs Road
Porter, Indiana 46304-1299

May 20, 2011

N3615(INDU)

Mr. Rob Elstro, Information Specialist
Indiana Department of Environmental Management
Programs Branch, Office of Air Quality
Mail code 61-50 SD IGCN 1001
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

ATTN: Northwest Indiana Area Fine Particle (PM2.5) Redesignation Petition and
Maintenance
Plan

Dear Mr. Elstro:

We are providing comment on the Indiana Department of Environmental Management's (IDEM) petition to change air quality designations for Lake and Porter counties. The petition presents locally derived data that IDEM believes demonstrates compliance with the annual federal standards for fine particulate pollutants. It requests redesignation of Lake and Porter counties from nonattainment areas to attainment areas.

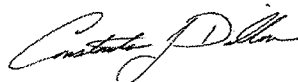
These comments have been prepared under the authority of the National Park Service (NPS) Organic Act of 1916 (16 U.S.C. 1, 2, 3, and 4), the Federal Water Pollution Control Act or Clean Water Act (32 U.S.C. §§ 1251-1387), the Park System Resource Protection Act (16 U.S.C. § 19jj) and are consistent with the intent of the National Environmental Policy Act of 1969.

Indiana Dunes National Lakeshore, a unit of the National Park System, is designated a Class II Air Quality site as defined by the Clean Air Act. The State of Indiana may permit a moderate amount of new air pollution (sulfur dioxide, particulate matter, and nitrogen oxides) as long as neither national ambient air quality standards nor the maximum allowable increases (increments) over established baseline concentrations are exceeded. The national lakeshore is part of a larger geographic area including Chicago and several nearby Illinois counties with several large sources of contaminants including multiple coal fire power plants. In 2005 the United States Environmental Protection Agency (EPA) designated this region as a nonattainment area for fine particulate pollutants.

We are pleased that IDEM has conducted intensive data collection from Lake and Porter counties and are encouraged by their assertion that these data indicate attainment with current standards. However we urge caution by EPA in granting attainment status and ask that the close proximity of two large coal fire power plants to the national lakeshore be taken into consideration. We do not support any reduction in monitoring requirements for the region and remain skeptical of future decreases in local emissions based on existing and future emission controls.

We appreciate your consideration of our comments. If you have any questions please contact Environmental Protection Specialist Charlie Morris at 219-395-1583 or charles_morris@nps.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "Constantine J. Dillon".

Constantine J. Dillon
Superintendent

PUBLIC HEARING ATTENDANCE RECORD

Title of Public Hearing: Redesignation Petition and Maintenance Plan under the NAAQS for Fine Particles - Lake and Porter Counties, Indiana

[illegible]