

AST CLOSURE DOCUMENT

**FOUR ABOVEGROUND STORAGE TANKS
GM WILMINGTON PLANT
WILMINGTON, DELAWARE**

Prepared for:

GENERAL MOTORS CORPORATION

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1.0 INTRODUCTION

General Motors (GM) proposes to close four aboveground storage tanks (ASTs) located at its GM Wilmington Assembly Plant in accordance with the Delaware Regulation Governing Aboveground Storage Tanks (revised February 11, 2005). All of these ASTs (Tanks A, B, C, and F) are currently empty but, in the past, have held purge solvent, diesel oil, unleaded gasoline, and #6 fuel oil, respectively. Table 1 presents the relevant information for each of these four ASTs. Figure 1 presents a site location map and Figure 2 presents a site map with the locations of the ASTs.

Section 4.3 of Part A of the Delaware Regulation Governing Aboveground Storage Tanks requires that the owner or operator of the AST notify the Delaware Department of Natural Resources and Environmental Control (DNREC) at least 10 days prior to removal or change-in-service of an AST. This notification form for each of the four ASTs is provided to DNREC in Appendix A.

Section 14 of Part B of the Delaware Regulation Governing Aboveground Storage Tanks governs the Site Assessment Requirements for AST Removal. This section requires soil and groundwater sampling and analyses in the immediate area surrounding each AST for all Regulated Substances that were stored in the AST during the life of the AST. Soil and groundwater samples were collected around Tank F in accordance with these requirements. Soil samples were collected in the area of Tanks A, B, and C. However, due to releases from other unrelated operations upgradient of the area of Tanks A, B, and C, the groundwater had already been characterized in the area of the three empty tanks for the constituents of the products that were stored in these ASTs (purge solvent, diesel oil, and unleaded gasoline). Therefore, no additional groundwater sampling was proposed for the area of Tanks A, B, and C. Based on this information, a sampling plan was prepared and submitted to DNREC. GM and CRA representatives met with DNREC representatives on March 20, 2009 and agreed on a sampling plan for the four tanks. With some minor adjustments, which were in accordance with the Delaware Regulation Governing Aboveground Storage Tanks and agreed upon with DNREC representative, this sampling plan was the basis of the sampling and analysis conducted. The sampling and analysis plan is presented below:

Sample Collection: A track-mounted geoprobe rig will be used to install borings in the vicinity of the ASTs and collect the following soil and groundwater samples for analysis:

Tank A - Purge Solvent AST: CRA will install three soil borings to the groundwater table (approximately 10 to 15 feet bgs) and collect one sample from

each boring just below the gravel layer for analysis for VOCs, SVOCs, and metals. A second sample will be collected from the interval just above the water table only if there is evidence of impact deeper in the soil boring;

Tank B - #2 Diesel Oil AST: CRA will install three soil borings to the groundwater table and collect one sample from each boring just below the gravel layer for analysis for VOCs, SVOCs, metals and PCBs. A second sample will be collected from the interval just above the water table only if there is evidence of impact deeper in the soil boring;

Tank C - Unleaded Gasoline AST: CRA will install three soil borings to the groundwater table and collect one sample from each boring just below the gravel layer for analysis for VOCs and lead. (If it is confirmed that no leaded gasoline was ever stored in the AST, the lead analysis can be eliminated). A second sample will be collected from the interval just above the water table only if there is evidence of impact deeper in the soil boring;

Piping for Tanks A, B, and C: CRA will install five additional soil borings to a depth of two feet below the piping connected to these three tanks and collect one sample from each boring in the two-foot interval beneath this piping for analysis for VOCs, SVOCs, and metals.

Tank F - #6 Fuel Oil AST: CRA will install four soil borings to the groundwater table and collect one sample from each boring just below the gravel layer for analysis for SVOCs, metals, and PCBs. A second sample will be collected from the interval just above the water table only if there is evidence of impact below the depth of the first soil boring. CRA will collect a groundwater grab sample from two of the four soil borings for SVOCs and metals analysis (at least one on the downgradient side of the tank).

Piping for Tank F: CRA will install two additional soil borings to a depth of two feet below the piping connected to this tank and collect one sample from each boring in the two-foot interval beneath this piping for analysis for SVOCs, metals, and PCBs.

The anticipated number of analyses is presented below:

<i>AST EPA Method</i>	<i>VOCs 8260B</i>	<i>SVOCs 8270C</i>	<i>Metals 6020</i>	<i>PCBs 8082</i>	<i>Lead 6020</i>
Tank A - Purge Solvent	3	3	3	--	--
Tank B - #2 Diesel Oil	3	3	3	3	--
Tank C - Unleaded Gasoline	4	--	--	--	4
Tank F - #6 Fuel Oil	--	6	6	3	--
Piping - Tanks A, B, and C	5	5	5	4	
Piping - Tank F		2	2	2	
TOTAL	15	19	19	12	4

2.0 SITE INVESTIGATION

From April 15 to July 1, 2009, CRA completed soil borings and soil and groundwater sample collection in accordance with the DNREC-approved plan. Appendix B presents the soil boring logs.

Tank A - Purge Solvent AST: CRA installed three soil borings to the groundwater table (14.5 feet bgs) and collected one sample from each boring at a depth of between 6 and 12 inches for analysis for TCL VOCs, TCL SVOCs, and PPL metals. Soil collected in the interval just above the water table exhibited no evidence of impact. Therefore, no soil samples were collected for analysis at this depth.

Tank B - #2 Diesel Oil AST: CRA installed three soil borings to the groundwater table (15 feet bgs) and collected one sample from each boring at a depth of between 6 and 12 inches for analysis for TCL VOCs, TCL SVOCs, metals and PCBs. Soil collected in the interval just above the water table exhibited no evidence of impact. Therefore, no soil samples were collected for analysis at this depth.

Tank C - Unleaded Gasoline AST: CRA installed three soil borings to the groundwater table (14 feet bgs) and collected one sample from each boring at a depth of between 6 and 12 inches for analysis for analysis for TCL VOCs and lead. Soil collected in the interval just above the water table exhibited evidence of impact by TCL VOCs in Borings GP-7 and GP-9, but not in Boring GP-8. Therefore, soil samples were collected for analysis in Borings GP-7 and GP-9, both at a depth of 14.5-15.0 feet bgs.

Piping for Tanks A, B, and C: CRA installed five borings to a depth of five feet bgs along the pipelines connecting Tanks A, B, and C to the pump house and collected one sample from each boring at for analysis for TCL VOCs, TCL SVOCs, and PPL metals, all at a depth of 4.5 feet bgs.

Tank F - #6 Fuel Oil AST: CRA installed four soil borings to the groundwater table (13-14 feet bgs) and collect one sample from each boring just below the gravel layer for analysis for SVOCs, metals, and PCBs. Soil collected in the interval just above the water table exhibited no evidence of impact. Therefore, no soil samples were collected for analysis at this depth. CRA collected a groundwater grab sample from each of two of the four soil borings Borings 12 and 13) and analyzed them for VOCs and metals analysis.

Piping for Tanks F: CRA installed two additional borings to a depth of two feet below the piping that is connected to this tank, and collected one sample from each boring in

the two-foot interval beneath the piping for analysis for SVOCs, PPL metals, and PCBs. Both samples were collected at a depth of 4.5 to 5.0 feet bgs.

3.0 ANALYTICAL RESULTS

This section presents the analytical results for the samples collected for the four ASTs. Laboratory analytical reports are presented in Appendix C. Tables 2 and 3 present the soil and groundwater results, respectively. The actual number of analyses is presented below:

<i>AST EPA Method</i>	<i>VOCs 8260B</i>	<i>SVOCs 8270C</i>	<i>Metals 6020</i>	<i>PCBs 8082</i>	<i>Lead 6020</i>
Tank A - Purge Solvent	3	3	3	--	--
Tank B - #2 Diesel Oil	3	3	3	3	--
Tank C - Unleaded Gasoline	6	--	--	--	6
Tank F - #6 Fuel Oil	--	6	6	3	--
Piping - Tanks A, B, and C	5	5	5	4	
Piping - Tank F		2	2	2	
TOTAL	17	19	19	12	6

3.1 TANK A

Soil Sampling Results: All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for restricted use soils. All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for unrestricted use surface soils with the exception of the arsenic concentrations which ranged from 2.5 to 3.1 mg/kg in the three samples MM-001, MM-002, and MM-003, above the unrestricted use standard of 0.4 mg/kg. These samples are below the restricted use standard of 4.0 mg/kg. The concentration of arsenic in typical Delaware soils range from 1 to 10 mg/kg. No chemicals stored in Tank A were found in the soil surrounding the tank above the standards for restricted or unrestricted use.

3.2 TANK B

Soil Sampling Results: All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for restricted use soils. All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for unrestricted use surface soils with the exception of the arsenic concentrations which ranged from 2.2 to

3.7 mg/kg in the three samples MM-004, MM-005, and MM-006. No chemicals stored in Tank B were found in the soil surrounding the tank above the standards for restricted use.

3.3 TANK C

Soil Sampling Results: All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for restricted and unrestricted use soils. No chemicals stored in Tank C were found in the soil surrounding the tank above the standards for restricted or unrestricted use.

3.4 PIPING FOR TANKS A, B, AND C

Soil Sampling Results: All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for restricted use soils with two exceptions: benzo-a-pyrene in Sample No. MM-013 was 0.97 mg/kg, above the standard of 0.8 mg/kg, and arsenic in Sample MM-017 was 10.7, above the standard of 4.0 mg/kg. All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for unrestricted use surface soils with the following exceptions:

- Benzo-a-pyrene in Sample No. MM-013 was 0.97 mg/kg, above the restricted use standard of 0.8 mg/kg. This contaminant was found in the vicinity of the transfer area well away from any of the tanks;
- Dibenz(a,h)anthracene in Sample MM-017 was 0.2 mg/kg, below the restricted use standard but was above the unrestricted use standard of 0.09 mg/kg. This contaminant was found in the vicinity of the transfer area well away from any of the tanks; and
- Arsenic concentrations which ranged from 3.1 to 10.7 mg/kg in the five samples MM-012, MM-013, MM-015, MM-016, and MM-017.

No chemicals stored in Tanks A, B, or C were found in the soil surrounding the tank pipelines above the restricted standard with the exception of benzo(a)pyrene in Sample No. MM-013, which was marginally above the restricted use standard and of benz(a,h)anthracene in Sample No. MM-013, which was marginally above the unrestricted use standard but below the restricted use standard. These contaminants were found in the vicinity of the transfer area well away from any of the tanks.

3.5 TANK F

Soil Sampling Results: All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for restricted use soils with the exception of benzo-a-pyrene in Sample No. MM-21, which was 0.97 mg/kg, above the standard of 0.8 mg/kg, and for arsenic in Sample Nos. MM-21 and MM-24, which were 4.9 and 11.9 mg/kg, respectively, above the restricted use standard of 4.0 mg/kg. The concentration of arsenic in typical Delaware soils range from 1 to 10 mg/kg.

Groundwater Sampling Results: All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for groundwater with the following exceptions:

Sample No.	Chemical	Standard (mg/kg)	Result (mg/kg)
MM-25/MM-26 (dup. of MM-25)*	Benzo-a-anthracene	0.09	0.97/.084*
	Benzo-a-pyrene	0.2	0.90/0.85*
	Benzo-b-fluoranthene	0.09	0.85/0.64*
	Benzo-k-fluoranthene	0.9	1.0/0.78*
	bis(2-ethylhexyl) phthalate	6	60/130*
	Benzo-a-anthracene	0.09	0.36
MM-27	Benzo-a-pyrene	0.2	0.24

* - Duplicate samples

3.6 PIPING FOR TANK F

Soil Sampling Results: All analytical parameters were below all Delaware Uniform Risk-Based Remediation Standards for restricted use soils with the exception of benzo-a-pyrene in Sample No. MM-20, which was 1.7 mg/kg, above the restricted use standard of 0.8 mg/kg, and arsenic in Sample No. MM-20, which 9.0 mg/kg, above the restricted use standard of 4.0mg/kg.

3.7 ARSENIC IN SOIL

Arsenic can be eliminated as a contaminant of concern for these four tanks because the arsenic concentrations found in the soil are not attributable to the product stored in the

tanks and because the concentrations observed are within natural background levels for the State of Delaware. According to DNREC¹ *“Based on samples taken by the Department at 40 sites throughout the state, Arsenic in Delaware soils can occur naturally in amounts ranging from 0 to 48 parts per million (ppm), though 95 percent of the samples were 29 ppm or lower in total Arsenic concentration. Results of studies by the U.S. Geological Survey yield similar results.”* Based on Site data, 99 percent of the samples were below 29 mg/kg in total Arsenic and the median concentration was 2.8 mg/kg. DNREC has also published² *“Default Background Standards”* and *“Typical Delaware Soil Concentrations”* for many metals. The Default Background Standard for arsenic is 1 mg/kg, and the Typical Delaware Soil Concentration was 1 to 10 mg/kg.

¹ <http://www.dnrec.state.de.us/dnrec2000/Divisions/AWM/SIRB/Arsenic/>

² <http://www.dnrec.state.de.us/DNREC2000/Divisions/AWM/sirb/DOCS/PDFS/Misc/RemStd.pdf>
Remediation Standards Guidance under the Delaware Hazardous Substance Cleanup Act, December 1999.

4.0 CLOSURE DEMONSTRATION FOR ASTS

4.1 TANK A

Tank A is a 39,000-gallon AST, which was installed around 1955 and has contained purge solvent throughout its operating life. It is located within secondary containment. This AST was taken out of service on September 3, 2002 and has been cleaned, and was closed on September 17, 2008. Samples of soil surrounding the tanks were collected and analyzed in accordance with the DNREC-approved sampling plan. No chemicals stored in Tank A were found in the soil surrounding the tank above the standards for restricted or unrestricted use. Tank A has had no impact on the soil directly adjacent to the tank. The groundwater in the area of the tank has been fully characterized and has been shown to be impacted by VOCs. However, the source of these VOCs is upgradient of the tank, has been fully characterized, and is currently under remediation.

4.2 TANK B

Tank B is a 60,900-gallon AST, which was installed around 1955 and has contained diesel oil throughout its operating life. It is located within secondary containment. This AST was taken out of service in January 1, 2006 and has been cleaned, and was closed on December 17, 2008. Samples of soil surrounding the tanks were collected and analyzed in accordance with the DNREC-approved sampling plan. No chemicals stored in Tank B were found in the soil surrounding the tank above the standards for restricted or unrestricted use. Tank B has had no impact on the soil directly adjacent to the tank. The groundwater in the area of the tank has been fully characterized and has been shown to be impacted by VOCs. However, the source of these VOCs is upgradient of the tank, has been fully characterized, and is currently under remediation.

4.3 TANK C

Tank C is a 40,000-gallon AST, which was installed around 1955 and has contained unleaded and unleaded gasoline during its operating life. It is located within secondary containment. This AST was taken out of service in July 1, 2006 and has been cleaned, and was closed on September 17, 2008. Samples of soil surrounding the tanks were collected and analyzed in accordance with the DNREC-approved sampling plan. No chemicals stored in Tank C were found in the soil surrounding the tank above the standards for restricted or unrestricted use. Tank C has had no impact on the soil

directly adjacent to the tank. The groundwater in the area of the tank has been fully characterized and has been shown to be impacted by VOCs. However, the source of these VOCs is upgradient of the tank, has been fully characterized, and is currently under remediation.

4.4 PIPING FOR TANKS A, B, AND C

The piping for Tanks A, B, and C extend from the tanks along a west-to-east route from south of the tanks to the pump house approximately 100 feet to the east of Tank C. This piping was cleaned along with the associated tanks and was closed in the second half of 2008. The total length of the piping run is 230 feet from the farthest tank (Tank A) to the pump house. Samples of soil surrounding the piping were collected and analyzed in accordance with the DNREC-approved sampling plan. No chemicals transferred through the piping were found in the soil surrounding the piping above the standards for restricted use with the exception of benzo-a-pyrene in Sample No. MM-013, which was marginally above the applicable published DNREC standard. No other chemicals transferred through the piping were found in the soil surrounding the piping above the standards for unrestricted use with the exception of dibenz(a,h)anthracene in Sample No. MM-013, which marginally exceeded the applicable published DNREC standard. The portion of the piping in which this sample was located is associated with the pump house and the loading/unloading area for all chemicals, and across the road from the nearest of the three tanks. Therefore, these exceedances of the standards do not affect the closure of Tanks A, B, and C.

4.5 TANK F

Tank F is a 275,000-gallon AST, which was installed around 1947 and has contained #6 fuel oil throughout its operating life. It is located within secondary containment. This AST was taken out of service on April 18, 2007 and has been cleaned, and was closed on September 17, 2008. Samples of soil surrounding the tanks were collected and analyzed in accordance with the DNREC-approved sampling plan. Soils and groundwater surrounding the tank exhibited concentrations of polycyclic aromatic hydrocarbons, which exceed the restricted use standard. Some of the soil samples exceeded the unrestricted arsenic standard and one of the groundwater samples exceeded the standard for bis(2-ethylhexyl) phthalate.

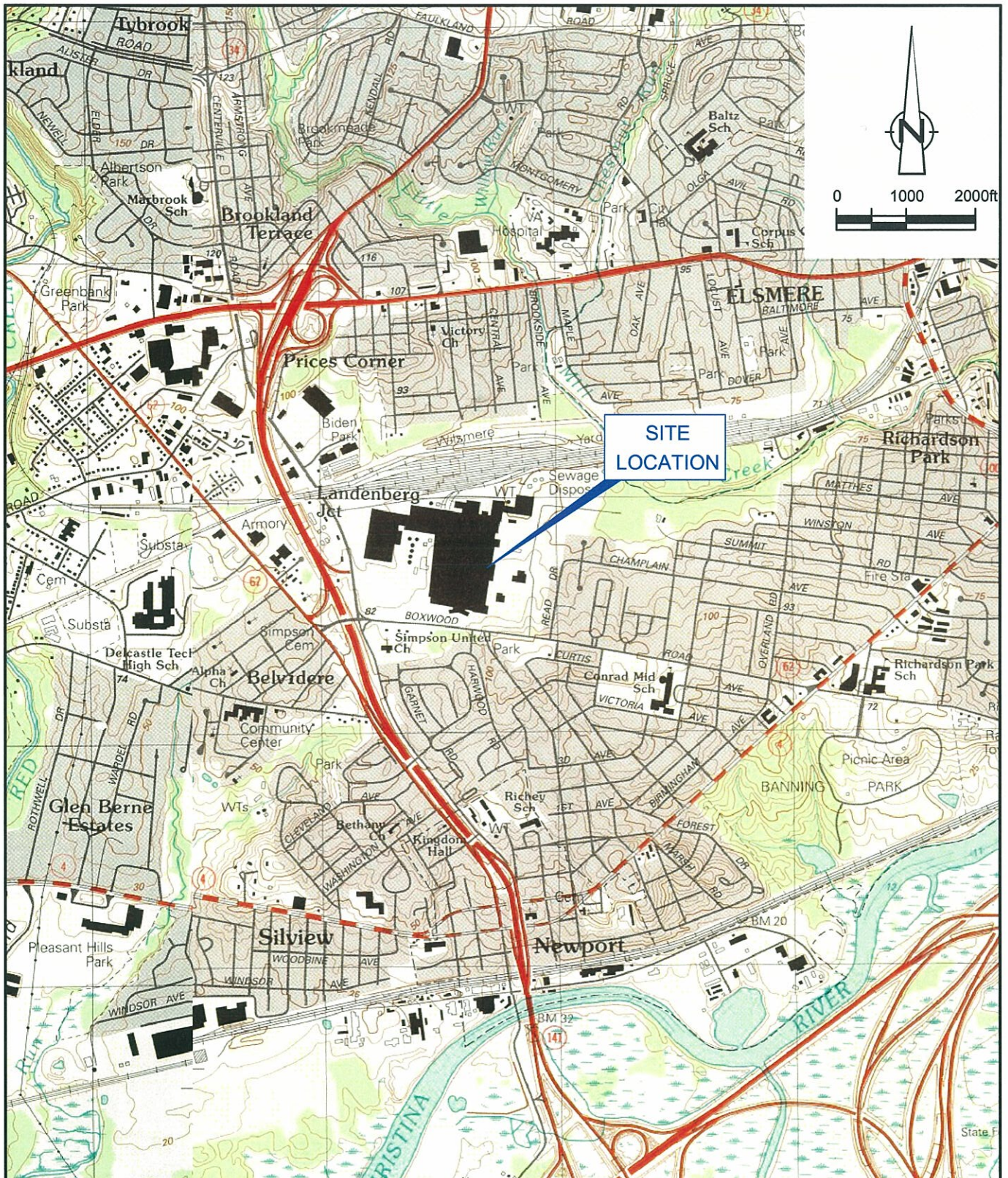
4.6 PIPING FOR TANK F

The piping for Tank F extends from the tank along a west-to-east route from Tank F to the boiler house, which is located approximately 160 feet to the east of Tank F. This piping was cleaned along with the Tank F and was closed in the second half of 2008. Most of this pipe run is located within concrete secondary containment and did not require sampling, according to DNREC. Samples of soil surrounding the piping outside of this concrete secondary containment were collected and analyzed in accordance with DNREC-approved sampling plan. No chemicals transferred through the piping were found in the soil surrounding the piping that were above the standards for restricted or unrestricted use with the exception of benzo-a-pyrene in Sample No. MM-013, which was above the restricted use standard. However, since the samples around the piping are located in the same area as Tank F (within the earthen secondary containment of the tank), this finding corroborates the findings regarding Tank F as presented in Section 4.5.

5.0 CONCLUSIONS

Tanks A, B, and C and Associated Piping: These tanks and their associated piping were closed in the second half of 2008. These tanks are to remain in place pending a decision by the new owner of the property. The soil surrounding Tanks A, B, and C and their associated piping have been tested. The results demonstrate that the soil in the vicinity of the tanks meets restricted use and unrestricted use standards. The soil in the vicinity of the associated piping meets restricted use and unrestricted use standards at all locations with the exception of the area associated with the pump house and the loading/unloading area for all chemicals and which is across the road from the nearest of the three tanks. Therefore, these exceedances of the standards do not affect the closure of Tanks A, B, and C. Based on previous soil and groundwater sampling in the general area of the tanks and piping, this area has been shown to be impacted by VOCs above the restricted use standard from other sources in the area. These exceedances are already being remediated through monitored natural attenuation (MNA) under the SIRB program.

Tank F and Associated Piping: This tank and its associated piping were closed on September 17, 2008. This tank is to remain in place pending a decision by the new owner of the property. The analytical results of the soil and groundwater samples collected around Tank F and the Tank F piping exhibit the exceedance of above the restricted use standards for the following SVOCs: benzo-a-anthracene, benzo-a-pyrene, benzo-b-fluoranthene, benzo-k-fluoranthene, and bis(2-ethylhexyl) phthalate. The analytical results appear to indicate that the contents of the tank have impacted the soil and groundwater in the area of the tank. Further delineation of the SVOC concentrations in the area should be conducted to determine the extent of the impact on the soil and the groundwater. Elevated arsenic levels were also detected. However, as discussed above, these results can be attributed to naturally occurring at the levels found.



REFERENCE:

UNITED STATES GEOLOGIC SURVEY
WILMINGTON SOUTH QUADRANGLE, DEL
TOPOGRAPHIC, 7.5 MINUTES SERIES 1997
SCALE: 1:24,000



figure 1

SITE LOCATION MAP
GENERAL MOTORS PLANT
Wilmington, Delaware

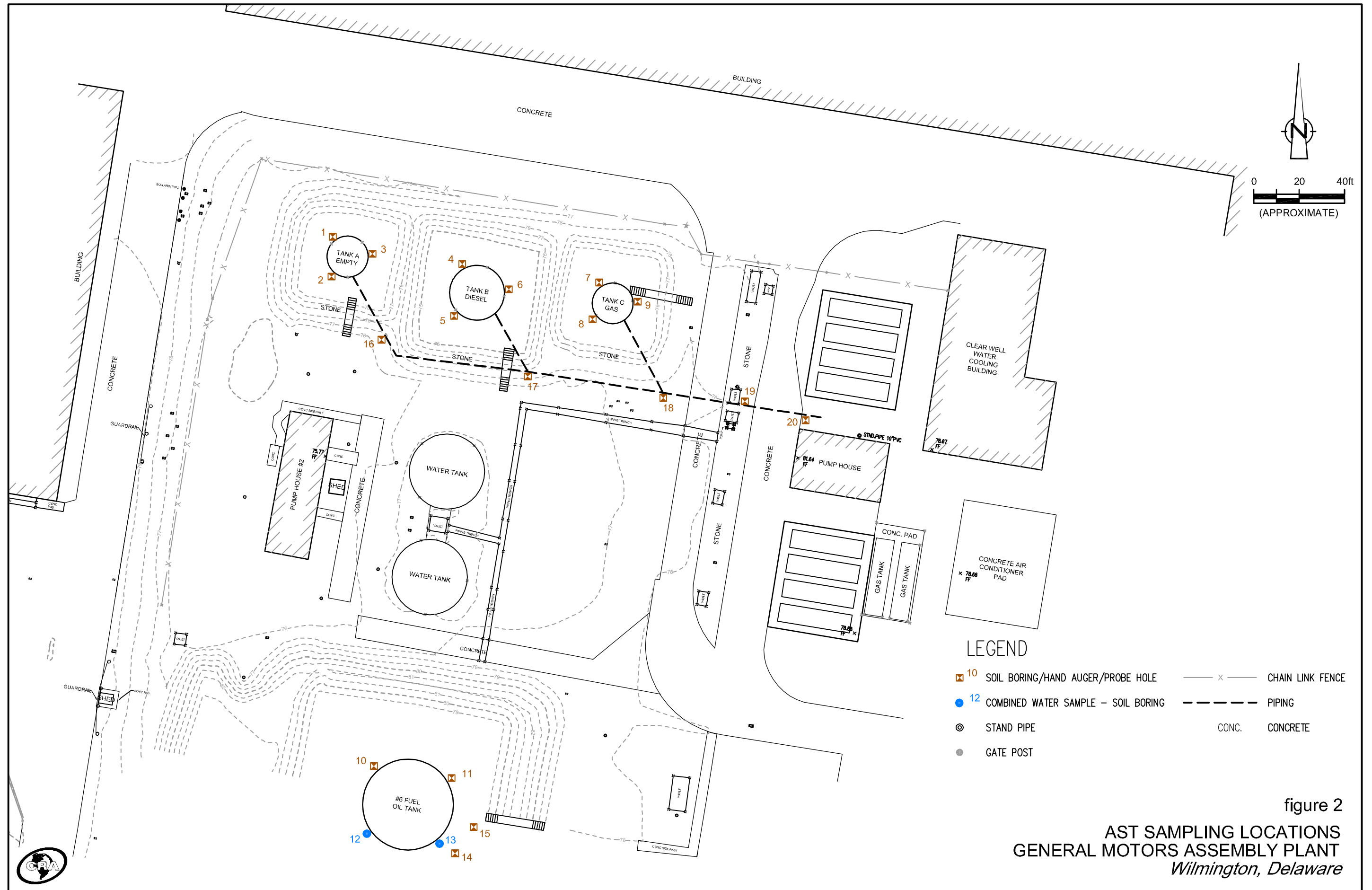


figure 2
 AST SAMPLING LOCATIONS
 GENERAL MOTORS ASSEMBLY PLANT
 Wilmington, Delaware

Table 1
GM Wilmington Assembly Plant
ASTs to be Closed

AST	Size (Gallons)	Contents	Installed	Taken Out of Service	Secondary Containment	Underground Piping?	Leak Detection?	Notes
TANK A	39,000	Purge Solvent	Circa 1955	09-17-08	Yes	Yes	No	Cleaned
TANK B	60,900	Diesel Fuel	Circa 1955	09-17-08	Yes	Yes	No	Cleaned
TANK C	40,000	Unleaded Gasoline	Circa 1955	12-08-09	Yes	Yes	No	Cleaned
TANK F	275,000	#6 Fuel Oil	Circa 1947	09-17-08	Yes	Yes	No	Cleaned

TABLE 2

**SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE**

Tank or Piping Being Tested

Sample Location

Sample Identification

Non-Critical Water Resource Area (1)

Sample Date

Sample Depth

Sample Type

Typical DE Soil

Default

UNTestriced Use

Restricted Use

4/15/2009

4/15/2009

4/15/2009

4/15/2009

4/15/2009

4/15/2009

Conc.

Background

Surface Soil

Surface Soil

6-12 in BGS

6-12 in BGS

6-12 in BGS

6-12 in BGS

6-12 in BGS

6-12 in BGS

Units

a

b

Volatile Organic Compounds

						TANK A			TANK B		
						GP-1	GP-2	GP-3	GP-4	GP-5	GP-6
						SS-55786-41509-MM-001	SS-55786-41509-MM-002	SS-55786-41509-MM-003	SS-55786-41509-MM-004	SS-55786-41509-MM-005	SS-55786-41509-MM-006
						4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009
						6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS
1,1,1-Trichloroethane	mg/kg	NA	NA	160	4100	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	0.6	29	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,1,2-Trichloroethane	mg/kg	NA	NA	1	100	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,1-Dichloroethane	mg/kg	NA	NA	780	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,1-Dichloroethene	mg/kg	NA	NA	0.07	10	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	78	2000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,2-Dibromo-3-chloropropane	mg/kg	NA	NA	0.5	4	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,2-Dibromoethane	mg/kg	NA	NA	0.008	0.07	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,2-Dichlorobenzene	mg/kg	NA	NA	560	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,2-Dichloroethane	mg/kg	NA	NA	0.4	63	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,2-Dichloropropane	mg/kg	NA	NA	9	84	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,3-Dichlorobenzene	mg/kg	NA	NA	230	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
1,4-Dichlorobenzene	mg/kg	NA	NA	27	240	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
2-Butanone	mg/kg	NA	NA	1000	5000	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/kg	NA	NA	310	5000	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-Pentanone	mg/kg	NA	NA	630	5000	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/kg	NA	NA	780	5000	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.017 B
Benzene	mg/kg	NA	NA	0.8	200	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Bromodichloromethane	mg/kg	NA	NA	10	92	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Bromoform	mg/kg	NA	NA	53	720	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Bromomethane	mg/kg	NA	NA	11	290	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Carbon Disulfide	mg/kg	NA	NA	780	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Carbon Tetrachloride	mg/kg	NA	NA	0.3	44	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Chlorobenzene	mg/kg	NA	NA	130	4100	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Chloroethane	mg/kg	NA	NA	220	2000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Chloroform	mg/kg	NA	NA	0.3	940	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Chloromethane	mg/kg	NA	NA	49	440	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
cis-1,2-Dichloroethene	mg/kg	NA	NA	78	2000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
cis-1,3-Dichloropropene	mg/kg	NA	NA	0.1	32	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Cyclohexane	mg/kg	NA	NA			0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Dibromochloromethane	mg/kg	NA	NA	8	68	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Dichlorodifluoromethane	mg/kg	NA	NA	1000	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Ethylbenzene	mg/kg	NA	NA	400	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Freon TF	mg/kg	NA	NA			0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Isopropylbenzene	mg/kg	NA	NA	780	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Methyl acetate	mg/kg	NA	NA	1000	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Methyl Acetate	mg/kg	NA	NA			NT	NT	NT	NT	NT	NT
Methyl cyclohexane	mg/kg	NA	NA			0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Methyl Cyclohexane	mg/kg	NA	NA			NT	NT	NT	NT	NT	NT
Methylene Chloride	mg/kg	NA	NA	13	760	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
MTBE	mg/kg	NA	NA	39	1000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Styrene	mg/kg	NA	NA	1000	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
TBA	mg/kg	NA	NA			0.022 U	0.022 U	0.02 U	0.022 U	0.02 U	0.022 U
tert-Amylmethyl Ether	mg/kg	NA	NA			0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
tert-Amylmethyl Ether	mg/kg	NA	NA			NT	NT	NT	NT	NT	NT
Tetrachloroethene	mg/kg	NA	NA	11	110	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Toluene	mg/kg	NA	NA	650	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
trans-1,2-Dichloroethene	mg/kg	NA	NA	160	4100	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
trans-1,3-Dichloropropene	mg/kg	NA	NA	0.1	32	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Trichloroethene	mg/kg	NA	NA	5	520	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Trichlorofluoromethane	mg/kg	NA	NA	1000	5000	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Vinyl Chloride	mg/kg	NA	NA	0.03	3	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U
Xylene (Total)	mg/kg	NA	NA	420	5000	0.0032 U	0.0033 U	0.003 U	0.0033 U	0.0031 U	0.0033 U

TABLE 2

SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE

Tank or Piping Being Tested

Sample Location

Sample Identification

Sample Date

Sample Depth

Sample Type

Typical DE Soil

Default

Background

UNTestricted Use

Surface Soil

Restricted Use

Surface Soil

TANK A			TANK B		
GP-1	GP-2	GP-3	GP-4	GP-5	GP-6
SS-55786-41509-MM-001	SS-55786-41509-MM-002	SS-55786-41509-MM-003	SS-55786-41509-MM-004	SS-55786-41509-MM-005	SS-55786-41509-MM-006
4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009
6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS

Semi-volatile Organic Compounds

Units	a	b
2,4,5-Trichlorophenol	mg/kg	NA
2,4,6-Trichlorophenol	mg/kg	NA
2,4-Dichlorophenol	mg/kg	NA
2,4-Dimethylphenol	mg/kg	NA
2,4-Dinitrophenol	mg/kg	NA
2,4-Dinitrotoluene	mg/kg	NA
2,6-Dinitrotoluene	mg/kg	NA
2-Chloronaphthalene	mg/kg	NA
2-Chlorophenol	mg/kg	NA
2-Methylnaphthalene	mg/kg	NA
2-Methylphenol	mg/kg	NA
2-Nitroaniline	mg/kg	NA
2-Nitrophenol	mg/kg	NA
3,3'-Dichlorobenzidine	mg/kg	NA
3-Nitroaniline	mg/kg	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA
4-Bromophenyl-phenylether	mg/kg	NA
4-Chloro-3-methylphenol	mg/kg	NA
4-Chloroaniline	mg/kg	NA
4-Chlorophenyl-phenylether	mg/kg	NA
4-Methylphenol	mg/kg	NA
4-Nitroaniline	mg/kg	NA
4-Nitrophenol	mg/kg	NA
Acenaphthene	mg/kg	NA
Acenaphthylene	mg/kg	NA
Acetophenone	mg/kg	NA
Anthracene	mg/kg	NA
Atrazine	mg/kg	NA
Benzaldehyde	mg/kg	NA
Benzo(a)anthracene	mg/kg	NA
Benzo(a)pyrene	mg/kg	NA
Benzo(b)fluoranthene	mg/kg	NA
Benzo(g,h,i)perylene	mg/kg	NA
Benzo(k)fluoranthene	mg/kg	NA
bis(2-Chloroethoxy)methane	mg/kg	NA
bis(2-Chloroethyl)ether	mg/kg	NA
bis(2-chloroisopropyl)ether	mg/kg	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA
Butylbenzylphthalate	mg/kg	NA
Caprolactam	mg/kg	NA
Carbazole	mg/kg	NA
Chrysene	mg/kg	NA
Dibenz(a,h)anthracene	mg/kg	NA
Dibenzofuran	mg/kg	NA
Diethylphthalate	mg/kg	NA
Dimethylphthalate	mg/kg	NA
Di-n-butylphthalate	mg/kg	NA
Di-n-octylphthalate	mg/kg	NA
Diphenyl	mg/kg	NA
Fluoranthene	mg/kg	NA
Fluorene	mg/kg	NA
Hexachlorobenzene	mg/kg	NA
Hexachlorobutadiene	mg/kg	NA
Hexachlorocyclopentadiene	mg/kg	NA
Hexachloroethane	mg/kg	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA
Isophorone	mg/kg	NA
Naphthalene	mg/kg	NA
Nitrobenzene	mg/kg	NA
N-Nitroso-di-n-propylamine	mg/kg	NA
N-Nitrosodiphenylamine	mg/kg	NA
Pentachlorophenol	mg/kg	NA
Phenanthrene	mg/kg	NA
Phenol	mg/kg	NA
Pyrene	mg/kg	NA

TABLE 2

**SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE**

Tank or Piping Being Tested

Sample Location

Sample Identification

Sample Date

Sample Depth

Sample Type

TANK C					TANK F				
GP-7	GP-7	GP-8	GP-9	GP-9	GP-10	GP-11	GP-12	GP-13	
SS-55786-41509-MM-007	SS-55786-41509-MM-008	SS-55786-41509-MM-009	SS-55786-41509-MM-010	SS-55786-41509-MM-011	SO-55786-7109-MM-23	SO-55786-7109-MM-24	SO-55786-7109-MM-22	SO-55786-7109-MM-21	
4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	7/1/09	7/1/09	7/1/09	7/1/09	
6-12 in BGS	13.5-14 ft	6-12 in BGS	6-12 in BGS	13.5-14 ft	6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS	

Units

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
1,1,2,2-Tetrachloroethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.093	U	NT	NT	NT	NT
1,1,2-Trichloroethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.28	U	NT	NT	NT	NT
1,1-Dichloroethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
1,1-Dichloroethene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.19	U	NT	NT	NT	NT
1,2,4-Trichlorobenzene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
1,2-Dibromo-3-chloropropane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
1,2-Dibromoethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
1,2-Dichlorobenzene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
1,2-Dichloroethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.19	U	NT	NT	NT	NT
1,2-Dichloropropane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.093	U	NT	NT	NT	NT
1,3-Dichlorobenzene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
1,4-Dichlorobenzene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
2-Butanone	mg/kg	0.009	J	0.0044	J	0.0088	U	0.0092	U	0.46	U	NT	NT	NT	NT
2-Hexanone	mg/kg	0.01	U	0.0097	U	0.0088	U	0.0092	U	0.46	U	NT	NT	NT	NT
4-Methyl-2-Pentanone	mg/kg	0.01	U	0.0097	U	0.0088	U	0.0092	U	0.46	U	NT	NT	NT	NT
Acetone	mg/kg	0.028	B	0.015	B	0.0088	U	0.0092	U	0.46	U	NT	NT	NT	NT
Benzene	mg/kg	0.0007	J	0.0013	J	0.0009	U	0.0009	U	0.093	U	NT	NT	NT	NT
Bromodichloromethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.093	U	NT	NT	NT	NT
Bromoform	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.37	U	NT	NT	NT	NT
Bromomethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Carbon Disulfide	mg/kg	0.001	U	0.0011	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Carbon Tetrachloride	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.19	U	NT	NT	NT	NT
Chlorobenzene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Chloroethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Chloroform	mg/kg	0.0059		0.0056		0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Chloromethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
cis-1,2-Dichloroethene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
cis-1,3-Dichloropropene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Cyclohexane	mg/kg	0.013		0.023		0.0009	U	0.0009	U	0.26	J	NT	NT	NT	NT
Dibromochloromethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Dichlorodifluoromethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Ethylbenzene	mg/kg	0.0022		0.031		0.0009	U	0.0009	U	5.6	U	NT	NT	NT	NT
Freon TF	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Isopropylbenzene	mg/kg	0.0065		0.024		0.0009	U	0.0009	U	0.54	U	NT	NT	NT	NT
Methyl acetate	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	NT		NT	NT	NT	NT
Methyl Acetate	mg/kg	NT		NT		NT		NT		0.46	U	NT	NT	NT	NT
Methyl cyclohexane	mg/kg	0.021		0.037		0.0009	U	0.0009	U	NT		NT	NT	NT	NT
Methyl Cyclohexane	mg/kg	NT		NT		NT		NT		1.8	U	NT	NT	NT	NT
Methylene Chloride	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.28	U	NT	NT	NT	NT
MTBE	mg/kg	0.001	U	0.035		0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Styrene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
TBA	mg/kg	0.02	U	0.019	U	0.018	U	0.018	U	9.3	U	NT	NT	NT	NT
tert-Amylmethyl Ether	mg/kg	0.001	U	0.0008	J	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
tert-Amylmethyl Ether	mg/kg	NT		NT		NT		NT		NT		NT	NT	NT	NT
Tetrachloroethene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.093	U	NT	NT	NT	NT
Toluene	mg/kg	0.0004	J	0.0034		0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
trans-1,2-Dichloroethene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
trans-1,3-Dichloropropene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Trichloroethene	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.093	U	NT	NT	NT	NT
Trichlorofluoromethane	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Vinyl Chloride	mg/kg	0.001	U	0.001	U	0.0009	U	0.0009	U	0.46	U	NT	NT	NT	NT
Xylene (Total)	mg/kg	0.0031		0.053		0.0026	U	0.0028	U	0.46	U	NT	NT	NT	NT

TABLE 2

SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE

Tank or Piping Being Tested

Sample Location

Sample Identification

Sample Date

Sample Depth

Sample Type

TANK C					TANK F				
GP-7	GP-7	GP-8	GP-9	GP-9	GP-10	GP-11	GP-12	GP-13	
SS-55786-41509-MM-007	SS-55786-41509-MM-008	SS-55786-41509-MM-009	SS-55786-41509-MM-010	SS-55786-41509-MM-011	SO-55786-7109-MM-23	SO-55786-7109-MM-24	SO-55786-7109-MM-22	SO-55786-7109-MM-21	
4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	7/1/09	7/1/09	7/1/09	7/1/09	
6-12 in BGS	13.5-14 ft	6-12 in BGS	6-12 in BGS	13.5-14 ft	6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS	

Units

Semi-volatile Organic Compounds

2,4,5-Trichlorophenol	mg/kg	NT	NT	NT	NT	NT	0.077 U	0.079 U	0.076 U	0.073 U
2,4,6-Trichlorophenol	mg/kg	NT	NT	NT	NT	NT	0.072 U	0.073 U	0.071 U	0.068 U
2,4-Dichlorophenol	mg/kg	NT	NT	NT	NT	NT	0.064 U	0.33 J	0.064 U	0.061 U
2,4-Dimethylphenol	mg/kg	NT	NT	NT	NT	NT	0.064 U	0.066 U	0.064 U	0.061 U
2,4-Dinitrophenol	mg/kg	NT	NT	NT	NT	NT	0.085 U	0.087 U	0.084 U	0.080 U
2,4-Dinitrotoluene	mg/kg	NT	NT	NT	NT	NT	0.012 U	0.012 U	0.012 U	0.011 U
2,6-Dinitrotoluene	mg/kg	NT	NT	NT	NT	NT	0.010 U	0.010 U	0.010 U	0.0096 U
2-Chloronaphthalene	mg/kg	NT	NT	NT	NT	NT	0.057 U	0.058 U	0.056 U	0.053 U
2-Chlorophenol	mg/kg	NT	NT	NT	NT	NT	0.053 U	0.055 U	0.053 U	0.050 U
2-Methylnaphthalene	mg/kg	NT	NT	NT	NT	NT	0.058 U	0.060 U	0.058 U	0.055 U
2-Methylphenol	mg/kg	NT	NT	NT	NT	NT	0.058 U	0.059 U	0.057 U	0.054 U
2-Nitroaniline	mg/kg	NT	NT	NT	NT	NT	0.11 U	0.11 U	0.11 U	0.10 U
2-Nitrophenol	mg/kg	NT	NT	NT	NT	NT	0.066 U	0.068 U	0.065 U	0.062 U
3,3'-Dichlorobenzidine	mg/kg	NT	NT	NT	NT	NT	0.089 U	0.091 U	0.088 U	0.084 U
3-Nitroaniline	mg/kg	NT	NT	NT	NT	NT	0.091 U	0.093 U	0.090 U	0.085 U
4,6-Dinitro-2-methylphenol	mg/kg	NT	NT	NT	NT	NT	0.19 U	0.20 U	0.19 U	0.18 U
4-Bromophenyl-phenylether	mg/kg	NT	NT	NT	NT	NT	0.071 U	0.073 U	0.071 U	0.067 U
4-Chloro-3-methylphenol	mg/kg	NT	NT	NT	NT	NT	0.067 U	0.069 U	0.067 U	0.063 U
4-Chloroaniline	mg/kg	NT	NT	NT	NT	NT	0.050 U	0.052 U	0.050 U	0.047 U
4-Chlorophenyl-phenylether	mg/kg	NT	NT	NT	NT	NT	0.069 U	0.071 U	0.068 U	0.065 U
4-Methylphenol	mg/kg	NT	NT	NT	NT	NT	0.066 U	0.067 U	0.065 U	0.062 U
4-Nitroaniline	mg/kg	NT	NT	NT	NT	NT	0.083 U	0.085 U	0.082 U	0.078 U
4-Nitrophenol	mg/kg	NT	NT	NT	NT	NT	0.10 U	0.11 U	0.10 U	0.097 U
Acenaphthene	mg/kg	NT	NT	NT	NT	NT	0.057 U	0.058 U	0.056 U	0.22 J
Acenaphthylene	mg/kg	NT	NT	NT	NT	NT	0.057 U	0.059 U	0.057 U	0.054 U
Acetophenone	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	mg/kg	NT	NT	NT	NT	NT	0.071 U	0.073 U	0.070 U	0.99
Atrazine	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzaldehyde	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	mg/kg	NT	NT	NT	NT	NT	0.0074 U	0.18	0.16	3.0
Benzo(a)pyrene	mg/kg	NT	NT	NT	NT	NT	0.0049 U	0.20	0.19	2.9
Benzo(b)fluoranthene	mg/kg	NT	NT	NT	NT	NT	0.006 U	0.29	0.29	3.5
Benzo(g,h,i)perylene	mg/kg	NT	NT	NT	NT	NT	0.042 U	0.16 J	0.16 J	1.6
Benzo(k)fluoranthene	mg/kg	NT	NT	NT	NT	NT	0.0056 U	0.0057 U	0.098	1.7
bis(2-Chloroethoxy)methane	mg/kg	NT	NT	NT	NT	NT	0.057 U	0.059 U	0.057 U	0.054 U
bis(2-Chloroethyl)ether	mg/kg	NT	NT	NT	NT	NT	0.0083 U	0.0086 U	0.0083 U	0.0079 U
bis(2-chloroisopropyl)ether	mg/kg	NT	NT	NT	NT	NT	0.053 U	0.054 U	0.052 U	0.050 U
bis(2-Ethylhexyl)phthalate	mg/kg	NT	NT	NT	NT	NT	0.053 U	0.055 U	0.053 U	0.050 U
Butylbenzylphthalate	mg/kg	NT	NT	NT	NT	NT	0.047 U	1.5	0.39 J	0.58
Caprolactam	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbazole	mg/kg	NT	NT	NT	NT	NT	0.064 U	0.065 U	0.063 U	0.13 J
Chrysene	mg/kg	NT	NT	NT	NT	NT	0.058 U	0.21 J	0.19 J	3.2
Dibenz(a,h)anthracene	mg/kg	NT	NT	NT	NT	NT	0.0048 U	0.035 J	0.035 J	0.41
Dibenzofuran	mg/kg	NT	NT	NT	NT	NT	0.060 U	0.062 U	0.060 U	0.074 J
Diethylphthalate	mg/kg	NT	NT	NT	NT	NT	0.054 U	0.055 U	0.053 U	0.051 U
Dimethylphthalate	mg/kg	NT	NT	NT	NT	NT	0.054 U	0.055 U	0.054 U	0.051 U
Di-n-butylphthalate	mg/kg	NT	NT	NT	NT	NT	0.061 U	0.063 U	0.061 U	0.058 U
Di-n-octylphthalate	mg/kg	NT	NT	NT	NT	NT	0.048 U	0.049 U	0.047 U	0.045 U
Diphenyl	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	mg/kg	NT	NT	NT	NT	NT	0.067 U	0.20 J	0.22 J	6.0
Fluorene	mg/kg	NT	NT	NT	NT	NT	0.068 U	0.070 U	0.067 U	0.20 J
Hexachlorobenzene	mg/kg	NT	NT	NT	NT	NT	0.0056 U	0.0057 U	0.0055 U	0.0052 U
Hexachlorobutadiene	mg/kg	NT	NT	NT	NT	NT	0.016 U	0.017 U	0.016 U	0.015 U
Hexachlorocyclopentadiene	mg/kg	NT	NT	NT	NT	NT	0.12 U	0.12 U	0.12 U	0.11 U
Hexachloroethane	mg/kg	NT	NT	NT	NT	NT	0.0068 U	0.0069 U	0.0067 U	0.0064 U
Indeno(1,2,3-cd)pyrene	mg/kg	NT	NT	NT	NT	NT	0.0064 U	0.18	0.16	1.8
Isophorone	mg/kg	NT	NT	NT	NT	NT	0.046 U	0.047 U	0.046 U	0.043 U
Naphthalene	mg/kg	NT	NT	NT	NT	NT	0.059 U	0.060 U	0.058 U	0.055 U
Nitrobenzene	mg/kg	NT	NT	NT	NT	NT	0.009 U	0.0092 U	0.0089 U	0.0084 U
N-Nitroso-di-n-propylamine	mg/kg	NT	NT	NT	NT	NT	0.0053 U	0.0054 U	0.0052 U	0.005 U
N-Nitrosodiphenylamine	mg/kg	NT	NT	NT	NT	NT	0.065 U	0.067 U	0.065 U	0.062 U
Pentachlorophenol	mg/kg	NT	NT	NT	NT	NT	0.20 U	0.20 U	0.19 U	0.27 J
Phenanthrene	mg/kg	NT	NT	NT	NT	NT	0.070 U	0.072 U	0.069 U	3.1
Phenol	mg/kg	NT	NT	NT	NT	NT	0.049 U	0.050 U	0.049 U	0.046 U
Pyrene	mg/kg	NT	NT	NT	NT	NT	0.069 U	0.25 J	0.28 J	5.5

TABLE 2
SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE

Tank or Piping Being Tested		TANK C					TANK F				
		GP-7	GP-7	GP-8	GP-9	GP-9	GP-10	GP-11	GP-12	GP-13	
Sample Location		SS-55786-41509-MM-007	SS-55786-41509-MM-008	SS-55786-41509-MM-009	SS-55786-41509-MM-010	SS-55786-41509-MM-011	SO-55786-7109-MM-23	SO-55786-7109-MM-24	SO-55786-7109-MM-22	SO-55786-7109-MM-21	
Sample Date		4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	7/1/09	7/1/09	7/1/09	7/1/09	
Sample Depth		6-12 in BGS	13.5-14 ft	6-12 in BGS	6-12 in BGS	13.5-14 ft	6-12 in BGS	6-12 in BGS	6-12 in BGS	6-12 in BGS	
Sample Type											
Units											
Polychlorinated Biphenyls											
Aroclor-1016 (PCB-1016)	mg/kg	NT	NT	NT	NT	NT	0.015 U	0.016 U	0.015 U	0.015 U	
Aroclor-1221 (PCB-1221)	mg/kg	NT	NT	NT	NT	NT	0.024 U	0.025 U	0.024 U	0.023 U	
Aroclor-1232 (PCB-1232)	mg/kg	NT	NT	NT	NT	NT	0.046 U	0.047 U	0.046 U	0.043 U	
Aroclor-1242 (PCB-1242)	mg/kg	NT	NT	NT	NT	NT	0.015 U	0.016 U	0.015 U	0.015 U	
Aroclor-1248 (PCB-1248)	mg/kg	NT	NT	NT	NT	NT	0.022 U	0.022 U	0.021 U	0.020 U	
Aroclor-1254 (PCB-1254)	mg/kg	NT	NT	NT	NT	NT	0.028 U	0.028 U	0.028 U	0.026 U	
Aroclor-1260 (PCB-1260)	mg/kg	NT	NT	NT	NT	NT	0.0091 U	0.0093 U	0.009 U	0.0086 U	
Aroclor-1262 (PCB-1268)	mg/kg	NT	NT	NT	NT	NT	0.014 U	0.014 U	0.014 U	0.013 U	
Aroclor-1268 (PCB-1268)	mg/kg	NT	NT	NT	NT	NT	0.014 U	0.014 U	0.014 U	0.013 U	
Metals											
Antimony	mg/kg	NT	NT	NT	NT	NT	1.0 U	1.1 U	1.1 U	1.0 U	
Arsenic	mg/kg	NT	NT	NT	NT	NT	2.4	11.9	3.0	4.9	
Beryllium	mg/kg	NT	NT	NT	NT	NT	0.76	0.82	0.57	0.72	
Cadmium	mg/kg	NT	NT	NT	NT	NT	0.18 U	0.19 U	0.19 U	0.18 U	
Chromium Total*	mg/kg	NT	NT	NT	NT	NT	18.3	21.6	12.1	22.7	
Copper	mg/kg	NT	NT	NT	NT	NT	8.8	17.3	7.3	9.5	
Lead	mg/kg	7.3	6.6	5.1	3.5	2.7	19.2	74.9	19.3	26.2	
Mercury	mg/kg	NT	NT	NT	NT	NT	0.11	0.048	0.031 U	0.079	
Nickel	mg/kg	NT	NT	NT	NT	NT	8.4 J	21.3	6.1 J	7.9 J	
Selenium	mg/kg	NT	NT	NT	NT	NT	1.1 J	1.2 J	1.1 U	1.1 U	
Silver	mg/kg	NT	NT	NT	NT	NT	0.18 U	0.18 U	0.18 U	0.17 U	
Thallium	mg/kg	NT	NT	NT	NT	NT	1.1 U	1.2 U	1.2 U	1.1 U	
Zinc	mg/kg	NT	NT	NT	NT	NT	26.2	36.2	20.9	27.5	
Wet Chemistry											
Percent Moisture (%)							17.5	19.5	16.8	12.7	
Percent Solids (%)							82.5	80.5	83.2	87.3	
NT - Not Tested											

TABLE 2

**SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE**

Tank or Piping Being Tested

Sample Location

Sample Identification

Sample Date

Sample Depth

Sample Type

TANK F PIPING		TANK A, B, and C PIPING					
GP-14	GP-15	GP-16	GP-17	GP-18	GP-19	GP-20	
SS-55786-52009-MM-019	SS-55786-52009-MM-020	SS-55786-41609-MM-017	SS-55786-41609-MM-016	SS-55786-41609-MM-015	SS-55786-41509-MM-013	SS-55786-41509-MM-012	
		4/16/2009	4/16/2009	4/16/2009	4/15/2009	4/15/2009	
4.5-5.0 ft	4.5-5.0 ft	4.5-5.0 ft	4.5-5.0 ft	5.0 ft	4.5-5.0 ft	4.5-5.0 ft	
Duplicate							
Units							

Volatile Organic Compounds

1,1,1-Trichloroethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
1,1,2,2-Tetrachloroethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.1	U	0.093	U
1,1,2-Trichloroethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.3	U	0.28	U
1,1-Dichloroethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
1,1-Dichloroethene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.2	U	0.19	U
1,2,4-Trichlorobenzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
1,2-Dibromo-3-chloropropane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
1,2-Dibromoethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
1,2-Dichlorobenzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
1,2-Dichloroethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.2	U	0.19	U
1,2-Dichloropropane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.1	U	0.093	U
1,3-Dichlorobenzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
1,4-Dichlorobenzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
2-Butanone	mg/kg	NT	NT	0.012	U	0.011	U	0.01	U	0.5	U	0.46	U
2-Hexanone	mg/kg	NT	NT	0.012	U	0.011	U	0.01	U	0.5	U	0.46	U
4-Methyl-2-Pentanone	mg/kg	NT	NT	0.012	U	0.011	U	0.01	U	0.5	U	0.46	U
Acetone	mg/kg	NT	NT	0.015	B	0.022	B	0.02	B	0.5	U	0.46	U
Benzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.1	U	0.093	U
Bromodichloromethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.1	U	0.093	U
Bromoform	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.4	U	0.37	U
Bromomethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Carbon Disulfide	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Carbon Tetrachloride	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.2	U	0.19	U
Chlorobenzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Chloroethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Chloroform	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Chloromethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
cis-1,2-Dichloroethene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
cis-1,3-Dichloropropene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Cyclohexane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Dibromochloromethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Dichlorodifluoromethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Ethylbenzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.4	U	0.1	J
Freon TF	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Isopropylbenzene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.084	J
Methyl acetate	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	NT		NT	
Methyl Acetate	mg/kg	NT	NT	NT		NT		NT		0.5	U	0.46	U
Methyl cyclohexane	mg/kg	NT	NT	0.0012	U	0.0006	J	0.0005	J	NT		NT	
Methyl Cyclohexane	mg/kg	NT	NT	NT		NT		NT		0.5	U	0.051	J
Methylene Chloride	mg/kg	NT	NT	0.0006	JB	0.0005	JB	0.0004	JB	0.3	U	0.28	U
MTBE	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Styrene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
TBA	mg/kg	NT	NT	0.023	U	0.021	U	0.02	U	10	U	9.3	U
tert-Amylmethyl Ether	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
tert-Amylmethyl Ether	mg/kg	NT	NT	NT		NT		NT		NT		NT	
Tetrachloroethene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.1	U	0.093	U
Toluene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.054	J
trans-1,2-Dichloroethene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
trans-1,3-Dichloropropene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Trichloroethene	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.1	U	0.093	U
Trichlorofluoromethane	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Vinyl Chloride	mg/kg	NT	NT	0.0012	U	0.0011	U	0.001	U	0.5	U	0.46	U
Xylene (Total)	mg/kg	NT	NT	0.0035	U	0.0032	U	0.0031	U	0.5	U	0.46	J

TABLE 2

**SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE**

Tank or Piping Being Tested	TANK F PIPING				TANK A, B, and C PIPING										
Sample Location	GP-14		GP-15		GP-16		GP-17		GP-18		GP-19		GP-20		
Sample Identification	SS-55786-52009-MM-019		SS-55786-52009-MM-020		SS-55786-41609-MM-017		SS-55786-41609-MM-016		SS-55786-41609-MM-015		SS-55786-41509-MM-013		SS-55786-41509-MM-012		
Sample Date					4/16/2009		4/16/2009		4/16/2009		4/15/2009		4/15/2009		
Sample Depth	4.5-5.0 ft		4.5-5.0 ft		4.5-5.0 ft		4.5-5.0 ft		5.0 ft		4.5-5.0 ft		4.5-5.0 ft		
Sample Type	Duplicate														
Units															
Semi-volatile Organic Compounds															
2,4,5-Trichlorophenol	mg/kg	0.083	U	0.077	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
2,4,6-Trichlorophenol	mg/kg	0.077	U	0.072	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
2,4-Dichlorophenol	mg/kg	0.069	U	0.064	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
2,4-Dimethylphenol	mg/kg	0.069	U	0.064	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
2,4-Dinitrophenol	mg/kg	0.092	U	0.085	U	1.4	U	1.2	U	1.2	U	1.2	U	1.1	U
2,4-Dinitrotoluene	mg/kg	0.013	U	0.012	U	0.091	U	0.082	U	0.081	U	0.08	U	0.075	U
2,6-Dinitrotoluene	mg/kg	0.011	U	0.010	U	0.091	U	0.082	U	0.081	U	0.08	U	0.075	U
2-Chloronaphthalene	mg/kg	0.061	U	0.056	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
2-Chlorophenol	mg/kg	0.058	U	0.053	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
2-Methylnaphthalene	mg/kg	1.6		0.058	U	0.45	U	0.41	U	0.41	U	0.4	U	0.85	U
2-Methylphenol	mg/kg	0.062	U	0.058	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
2-Nitroaniline	mg/kg	0.12	U	0.11	U	0.91	U	0.82	U	0.81	U	0.8	U	0.75	U
2-Nitrophenol	mg/kg	0.071	U	0.066	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
3,3'-Dichlorobenzidine	mg/kg	0.096	U	0.089	U	0.91	U	0.82	U	0.81	U	0.8	U	0.75	U
3-Nitroaniline	mg/kg	0.098	U	0.090	U	0.91	U	0.82	U	0.81	U	0.8	U	0.75	U
4,6-Dinitro-2-methylphenol	mg/kg	0.21	U	0.19	U	1.4	U	1.2	U	1.2	U	1.2	U	1.1	U
4-Bromophenyl-phenylether	mg/kg	0.077	U	0.071	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
4-Chloro-3-methylphenol	mg/kg	0.073	U	0.067	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
4-Chloroaniline	mg/kg	0.054	U	0.050	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
4-Chlorophenyl-phenylether	mg/kg	0.074	U	0.069	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
4-Methylphenol	mg/kg	0.071	U	0.066	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
4-Nitroaniline	mg/kg	0.089	U	0.083	U	0.91	U	0.82	U	0.81	U	0.8	U	0.75	U
4-Nitrophenol	mg/kg	0.11	U	0.10	U	1.4	U	1.2	U	1.2	U	1.2	U	1.1	U
Acenaphthene	mg/kg	0.28	J	0.19	J	0.45	U	0.41	U	0.41	U	0.4	U	0.043	
Acenaphthylene	mg/kg	0.062	U	0.057	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Acetophenone	mg/kg	NT		NT		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Anthracene	mg/kg	0.42	J	0.62		0.45	U	0.41	U	0.41	U	0.028	J	0.38	U
Atrazine	mg/kg	NT		NT		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Benzaldehyde	mg/kg	NT		NT		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Benzo(a)anthracene	mg/kg	0.53		3.1		0.045	U	0.041	U	0.041	U	0.42		0.057	
Benzo(a)pyrene	mg/kg	0.21		1.7		0.045	U	0.041	U	0.041	U	0.97		0.079	
Benzo(b)fluoranthene	mg/kg	0.13		2.1		0.045	U	0.041	U	0.041	U	0.72		0.09	
Benzo(g,h,i)perylene	mg/kg	0.046	U	0.69	U	0.45	U	0.41	U	0.41	U	0.69		0.057	
Benzo(k)fluoranthene	mg/kg	0.006	U	2.3	U	0.045	U	0.041	U	0.041	U	0.75		0.083	
bis(2-Chloroethoxy)methane	mg/kg	0.062	U	0.057	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
bis(2-Chloroethyl)ether	mg/kg	0.057	U	0.052	U	0.045	U	0.041	U	0.041	U	0.04	U	0.038	U
bis(2-chloroisopropyl)ether	mg/kg	0.009	U	0.0083	J	NT		NT		NT		0.4	U	0.38	U
bis(2-Ethylhexyl)phthalate	mg/kg	0.057	U	0.053	J	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Butylbenzylphthalate	mg/kg	0.050	U	0.13		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Caprolactam	mg/kg	NT		NT		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Carbazole	mg/kg	0.069	U	0.12		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Chrysene	mg/kg	0.66		2.9	U	0.45	U	0.41	U	0.41	U	0.49		0.1	
Dibenz(a,h)anthracene	mg/kg	0.0052	U	0.31	U	0.045	U	0.041	U	0.041	U	0.2		0.038	U
Dibenzofuran	mg/kg	0.065	U	0.060	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Diethylphthalate	mg/kg	0.058	U	0.054	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Dimethylphthalate	mg/kg	0.058	U	0.054	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Di-n-butylphthalate	mg/kg	0.066	U	0.061		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Di-n-octylphthalate	mg/kg	0.051	U	0.048	J	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Diphenyl	mg/kg	NT		NT		0.45	U	0.41	U	0.41	U	0.4	U	0.09	
Fluoranthene	mg/kg	0.72		5.1	U	0.45	U	0.41	U	0.41	U	0.25	J	0.11	
Fluorene	mg/kg	0.37	J	0.12	U	0.45	U	0.41	U	0.41	U	0.4	U	0.12	
Hexachlorobenzene	mg/kg	0.006	U	0.0056	U	0.045	U	0.041	U	0.041	U	0.04	U	0.038	U
Hexachlorobutadiene	mg/kg	0.018	U	0.016	U	0.091	U	0.082	U	0.081	U	0.08	U	0.075	U
Hexachlorocyclopentadiene	mg/kg	0.13	U	0.12		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Hexachloroethane	mg/kg	0.0073	U	0.0067	U	0.045	U	0.041	U	0.041	U	0.04	U	0.038	U
Indeno(1,2,3-cd)pyrene	mg/kg	0.029	J	0.79	U	0.045	U	0.041	U	0.041	U	0.69		0.062	
Isophorone	mg/kg	0.050	U	0.046	U	0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Naphthalene	mg/kg	0.60		0.059	U	0.45	U	0.41	U	0.41	U	0.4	U	0.1	
Nitrobenzene	mg/kg	0.0097	U	0.009	U	0.045	U	0.041	U	0.041	U	0.04	U	0.038	U
N-Nitroso-di-n-propylamine	mg/kg	0.0057	U	0.0053	U	0.045	U	0.041	U	0.041	U	0.04	U	0.038	U
N-Nitrosodiphenylamine	mg/kg	0.070	U	0.065		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Pentachlorophenol	mg/kg	0.21	U	0.20	U	1.4	U	1.2	U	1.2	U	1.2	U	1.1	U
Phenanthrene	mg/kg	2.2		2.8		0.45	U	0.41	U	0.41	U	0.4	U	0.19	
Phenol	mg/kg	0.053	U	0.049		0.45	U	0.41	U	0.41	U	0.4	U	0.38	U
Pyrene	mg/kg	1.3		6.1		0.45	U	0.41	U	0.41	U	0.48		0.095	

TABLE 2

**SURFACE SOIL SAMPLING ANALYTICAL RESULTS
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE**

Tank or Piping Being Tested	TANK F PIPING		TANK A, B, and C PIPING				
Sample Location	GP-14	GP-15	GP-16	GP-17	GP-18	GP-19	GP-20
Sample Identification	SS-55786-52009-MM-019	SS-55786-52009-MM-020	SS-55786-41609-MM-017	SS-55786-41609-MM-016	SS-55786-41609-MM-015	SS-55786-41509-MM-013	SS-55786-41509-MM-012
Sample Date			4/16/2009	4/16/2009	4/16/2009	4/15/2009	4/15/2009
Sample Depth	4.5-5.0 ft	4.5-5.0 ft	4.5-5.0 ft	4.5-5.0 ft	5.0 ft	4.5-5.0 ft	4.5-5.0 ft
Sample Type	Duplicate						
	Units						

Polychlorinated Biphenyls

Aroclor-1016 (PCB-1016)	mg/kg	0.017	U	0.015	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1221 (PCB-1221)	mg/kg	0.026	U	0.024	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1232 (PCB-1232)	mg/kg	0.050	U	0.046	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1242 (PCB-1242)	mg/kg	0.017	U	0.015	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1248 (PCB-1248)	mg/kg	0.023	U	0.021	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1254 (PCB-1254)	mg/kg	0.030	U	0.028	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1260 (PCB-1260)	mg/kg	0.0098	U	0.009	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1262 (PCB-1268)	mg/kg	0.015	U	0.014	U	0.082	U	NT	0.082	U	0.081	U	0.076	U
Aroclor-1268 (PCB-1268)	mg/kg	0.015	U	0.014	U	0.082	U	NT	0.082	U	0.081	U	0.076	U

Metals

Antimony	mg/kg	1.1	U	1.1	U	1.3	U	1.2	U	1.2	U	1.2	U	1.2	U
Arsenic	mg/kg	4.0		9.0		10.7		3.9		3.2		3.1		3.1	
Beryllium	mg/kg	0.52		0.58		1.1		1		0.6		1.6		1.6	
Cadmium	mg/kg	0.20	U	0.19	U	0.14	U	0.12	U	0.12	U	0.12	U	0.12	U
Chromium Total*	mg/kg	34.9		25.6		37		28.2		31.2		22.1		22.1	
Copper	mg/kg	12.4		9.2		15.4		10.7		10.1		8.9		8.9	
Lead	mg/kg	11.7		31.4		10.7		8.1		8.8		8.8		8.8	
Mercury	mg/kg	0.049		0.036	J	0.019	U	0.02	U	0.017	U	0.02	U	0.02	U
Nickel	mg/kg	10.8		10.2		13.9		12.8		11.1		10.4		10.4	
Selenium	mg/kg	2.2	J	1.5	J	1.3	U	1.2	U	1.2	U	1.2	U	1.2	U
Silver	mg/kg	0.19	U	0.18	U	0.33	U	0.29	U	0.29	U	0.29	U	0.29	U
Thallium	mg/kg	1.2	U	1.2	U	1.3	U	1.2	U	1.2	U	1.2	U	1.2	U
Zinc	mg/kg	25.8		30.0		34		33.5		31.2		29.7		29.7	

Wet Chemistry

Percent Moisture (%)															
Percent Solids (%)															
NT - Not Tested															

TABLE 3

GROUNDWATER ANALYTICAL DATA
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE

<i>Sample Location:</i>	<i>GP-12</i>	<i>GP-12</i>	<i>GP--13</i>
	<i>SO-55786-7109-MM-25</i>	<i>SO-55786-7109-MM-26 (dup. of 25)</i>	<i>SO-55786-7109-MM-27</i>
<i>Sample ID:</i>			
<i>Sample Depth:</i>			
<i>Sample Date:</i>	<i>7/1/09</i>	<i>7/1/09 Duplicate</i>	<i>7/1/09</i>

<i>Parameters:</i>	<i>Units</i>	<i>Groundwater Standard²</i>
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Semi-volatile Organic Compounds

2,4,5-Trichlorophenol	ug/L	370	4.9	U	2.8	U	3.3	U
2,4,6-Trichlorophenol	ug/L	6	6.2	U	3.5	U	4.2	U
2,4-Dichlorophenol	ug/L	20	5.4	U	3.1	U	3.6	U
2,4-Dimethylphenol	ug/L	73	4.9	U	2.8	U	3.3	U
2,4-Dinitrophenol	ug/L	7	9.4	U	5.3	U	6.3	U
2,4-Dinitrotoluene	ug/L	7	0.84	U	0.48	U	0.57	U
2,6-Dinitrotoluene	ug/L	4	1.2	U	0.66	U	0.78	U
2-Chloronaphthalene	ug/L		7.4	U	4.2	U	4.9	U
2-Chlorophenol	ug/L	40/30	5.1	U	2.9	U	3.4	U
2-Methylnaphthalene	ug/L	12	6.1	U	3.4	U	4.1	U
2-Methylphenol	ug/L	180	3.3	U *	1.8	U	2.2	U
2-Nitroaniline	ug/L	0.2	11	U	6.3	U	7.5	U
2-Nitrophenol	ug/L		6.6	U	3.8	U	4.5	U
3,3'-Dichlorobenzidine	ug/L	0.2	14	U	7.7	U	9.2	U
3-Nitroaniline	ug/L		8.5	U	4.8	U	5.7	U
4,6-Dinitro-2-methylphenol	ug/L	0.4	10	U	5.8	U	6.9	U
4-Bromophenyl phenyl ether	ug/L		7.7	U	4.4	U	5.2	U
4-Chloro-3-methylphenol	ug/L		3.9	U	2.2	U	2.6	U
4-Chloroaniline	ug/L	15	4.1	U	2.3	U	2.8	U
4-Chlorophenyl phenyl ether	ug/L		7.7	U	4.4	U	5.2	U
4-Methylphenol	ug/L	18	3.1	U	1.8	U	2.1	U
4-Nitroaniline	ug/L		7.8	U	4.4	U	5.2	U
4-Nitrophenol	ug/L	60	4.5	U	2.6	U	3.1	U
Acenaphthene	ug/L	37	7.4	U	4.2	U	4.9	U
Acenaphthylene	ug/L		7.9	U	4.5	U	5.3	U
Acetophenone	ug/L	0.004	8.4	U	4.8	U	5.7	U
Anthracene	ug/L	180	7.0	U	3.9	U	4.7	U
Atrazine	ug/L	0/0.3	9.4	U	5.3	U	6.3	U
Benzaldehyde	ug/L	370	2.6	U	1.5	U	1.8	U
Benzo[a]anthracene	ug/L	0.09	0.97	J	0.84	J	0.36	U
Benzo[a]pyrene	ug/L	0.2/0.01	0.90	J	0.85	J	0.24	U
Benzo[b]fluoranthene	ug/L	0.09	0.85	J *	0.64	J *	0.28	U *
Benzo[g,h,i]perylene	ug/L		5.3	U	3.0	U	3.6	U
Benzo[k]fluoranthene	ug/L	0.9	1.0	J	0.78	J	0.39	U
bis (2-chloroisopropyl) ether	ug/L	300/0.3	6.3	U	3.6	U	4.2	U
Bis(2-chloroethoxy)methane	ug/L		6.8	U	3.9	U	4.6	U
Bis(2-chloroethyl)ether	ug/L		0.80	U	0.46	U	0.54	U
Bis(2-ethylhexyl) phthalate	ug/L	6/5	60		130		3.2	U
Butyl benzyl phthalate	ug/L	730	5.5	U	3.1	U	3.7	U
Caprolactam	ug/L	1800	0.98	U	0.56	U	0.66	U
Carbazole	ug/L	3	6.0	U	3.4	U	4.0	U
Chrysene	ug/L	9	7.4	U	4.2	U	5.0	U
Dibenz(a,h)anthracene	ug/L	0.01	0.31	U	0.18	U	0.21	U
Dibenzofuran	ug/L	2	7.0	U	4.0	U	4.7	U
Diethyl phthalate	ug/L	5000	7.5	U	4.2	U	5.0	U
Dimethyl phthalate	ug/L	37000	6.4	U	3.6	U	4.3	U

TABLE 3

GROUNDWATER ANALYTICAL DATA
GM ASSEMBLY PLANT
WILMINGTON, DELAWARE

Sample Location:	GP-12	GP-12	GP--13
	SO-55786-7109-MM-25	SO-55786-7109-MM-26 (dup. of 25)	SO-55786-7109-MM-27
Sample ID:			
Sample Depth:			
Sample Date:	7/1/09	7/1/09 Duplicate	7/1/09

Parameters:	Units	Groundwater Standard ²							
Di-n-butyl phthalate	ug/L	370	5.4	U	3.1	U	3.6	U	
Di-n-octyl phthalate	ug/L	73	3.7	U	2.1	U	2.5	U	
Diphenyl	ug/L	30	11	U	6.0	U	7.1	U	
Fluoranthene	ug/L	150	5.2	U	2.9	U	3.5	U	
Fluorene	ug/L	24	6.4	U	3.6	U	4.3	U	
Hexachlorobenzene	ug/L	1/0.04	0.53	U	0.30	U	0.36	U	
Hexachlorobutadiene	ug/L	1/0.9	1.8	U	1.0	U	1.2	U	
Hexachlorocyclopentadiene	ug/L	50/26	9.0	U	5.1	U	6.0	U	
Hexachloroethane	ug/L	1	0.98	U	0.56	U	0.66	U	
Indeno[1,2,3-cd]pyrene	ug/L	0.09	0.24	U	0.44	J	0.16	U	
Isophorone	ug/L	100/71	7.0	U	4.0	U	4.7	U	
Naphthalene	ug/L	20/0.7	7.2	U	4.1	U	4.8	U	
Nitrobenzene	ug/L	0.4	0.80	U	0.46	U	0.54	U	
N-Nitrosodi-n-propylamine	ug/L	0.01	0.63	U	0.36	U	0.42	U	
N-Nitrosodiphenylamine	ug/L	14	7.6	U	4.3	U	5.1	U	
Pentachlorophenol	ug/L	1/0.6	10	U *	5.7	U	6.7	U	
Phenanthrene	ug/L	120	7.0	U	4.0	U	4.7	U	
Phenol	ug/L	4000	1.7	U	0.99	U	1.2	U	
Pyrene	ug/L	18	8.4	U	4.7	U	5.6	U	

Metals (dissolved)¹

Antimony	ug/L	6	4.6	U	4.6	U	4.6	U	
Arsenic	ug/L	50/0.5	3.8	U	3.8	U	3.8	U	
Beryllium	ug/L	4	0.94	U	0.94	U	0.94	U	
Cadmium	ug/L	5	0.92	U	0.92	U	0.92	U	
Chromium	ug/L	11/100	3.2	U	3.2	U	3.2	U	
Copper	ug/L	1300	3.6	U	4.7	J	3.6	U	
Lead	ug/L	15	2.8	U	2.8	U	2.8	U	
Mercury	ug/L	2	0.18	U	0.18	U	0.18	U	
Nickel	ug/L	100	3.5	U	4.1	J	7.0	J	
Selenium	ug/L	50	4.8	U	4.8	U	4.8	U	
Silver	ug/L	100	0.97	U	0.97	U	0.97	U	
Thallium	ug/L	2	4.6	U	4.6	U	4.6	U	
Zinc	ug/L	2000	5.8	U	7.6	J	6.5	J	

Notes:

¹ Sample was filtered in the field.

² - Some analytes have two groundwater URS values presented (e.g., 2/1); the lowest value is to be used for screening purposes.

J - Estimated concentration.

U - Not present at or above the associated value.

UJ - Estimated reporting limit.

- Exceeds groundwater standard

APPENDIX A

ABOVEGROUND STORAGE TANK ACTIVITY NOTIFICATION FORMS



Aboveground Storage Tank Activity Notification

Delaware Department of Natural Resources
and Environmental Control

Mail original completed form to:

If you have questions call: (302) 395-2500
or fax: (302) 395-2555

PLEASE PRINT OR TYPE

DNREC/AST
391 Lukens Drive
New Castle, DE 19720

Provide all requested information. Activity Notification Form must be received, by the Tank Management Branch, at least ten (10) days prior to commencement of the activity.

Owner information:

Tank Owner: (BUSINESS or LAST Name, FIRST Name) General Motors Wilmington Assembly Plant		Owner Contact person: John W. Peronti	
Owner Mailing Address: 801 Boxwood Road		Contact Phone: 302-428-7422	Contact Fax: 302-428-7246
		Contact e-mail address: john.w.peronti@gm.com	
City: Newport	State: DE	Zip: 19804	Country: New Castle
		Contact person signature:	Date:

Facility Information:

AST Facility ID#: **7-000218**

Facility Name: General Motors Wilmington Assembly Plant		Facility Contact Person: John W. Peronti	
Mailing Address: 801 Boxwood Road		Phone: 302-428-7422	Fax: 302-428-7246
City: Newport	ST: DE	Zip Code: 19804	e-mail: john.w.peronti@gm.com
Has this facility ever been involved with any of the following DNREC interests for a site investigation? ☒ SIRB ☐ Haz Waste ☐ UST			
If so, are there monitoring wells on site? ☒ YES ☐ NO (Circle One)		Does an on-site well supply drinking water for your facility? No	

Tank Information: (one tank per form only)

Tank ID: A	Capacity: (Gallons) 39,000	Current Product Stored: Purge Solvent	*All previous products stored: Purge Solvent	Date of installation: (MM/DD/YY) Circa 1955
Orientation: Circle one Horizontal / ☒ Vertical	Diameter: (feet) 22	Length/Height: (feet) 18	Approx. length of underground piping: (ft.) 200	
Indicate base tank is constructed on: ☐ Concrete ☒ Soil ☐ Sand ☐ Other (describe)				

* All previous products stored for the history of the tank regardless of tank ownership

Tank Activity: (Check one and complete requested information)

☒	1. Permanent closure in place:	Date tank to be permanently closed:	September 17, 2008
☐	2. Tank relocated to new location:	Date to be moved:	
		New Location: (address or distance in feet)	
☐	3. Tank removal:	Date to be removed:	
☐	4. Change in product stored:	Date of change:	
		New product stored:	
☐	5. Tank temporarily out of service - Date:	6. Tank placed back in service - Date:	
☐	7. Internal or External Inspection	Date of inspection:	
☐	8. Retrofit/Upgrade:	Date and description of Retrofit/Upgrade:	

Attach site map with location of the tank, buildings, drinking water wells, and any monitoring wells for tank activities 1, 2, 3, & 4.



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Owner information:

Tank Owner: (BUSINESS or LAST Name, FIRST Name) General Motors Wilmington Assembly Plant			Owner Contact person: John W. Peronti	
Owner Mailing Address: 801 Boxwood Road			Contact Phone: 302-428-7422	Contact Fax: 302-428-7246
			Contact e-mail address: john.w.peronti@gm.com	
City: Newport	State: DE	Zip: 19804	Country: New Castle	Contact person signature: _____ Date: _____

Facility Information:

AST Facility ID#: **7-000218**

Facility Name: General Motors Wilmington Assembly Plant			Facility Contact Person: John W. Peronti	
Mailing Address: 801 Boxwood Road			Phone: 302-428-7422	Fax: 302-428-7246
City: Newport	ST: DE	Zip Code: 19804	e-mail: john.w.peronti@gm.com	
Has this facility ever been involved with any of the following DNREC interests for a site investigation? ☒ SIRB ☐ Haz Waste ☐ UST				
If so, are there monitoring wells on site? ☒ YES ☐ NO (Circle One) Does an on-site well supply drinking water for your facility? No				

Tank Information: (one tank per form only)

Tank ID: B	Capacity: (Gallons) 60,900	Current Product Stored: No. 2 Diesel Oil	*All previous products stored: No. 2 Diesel Oil	Date of installation: (MM/DD/YY) Circa 1955
Orientation: Circle one Horizontal / ☒ Vertical	Diameter: (feet) 24	Length/Height: (feet) 18	Approx. length of underground piping: (ft.) 185	
Indicate base tank is constructed on: ☐ Concrete ☒ Soil ☐ Sand ☐ Other (describe)				

* All previous products stored for the history of the tank regardless of tank ownership

Tank Activity: (Check one and complete requested information)

☒ 1. Permanent closure in place:	Date tank to be permanently closed:	September 17, 2008
☐ 2. Tank relocated to new location:	Date to be moved:	
New Location: (address or distance in feet)		
☐ 3. Tank removal:	Date to be removed:	
☐ 4. Change in product stored:	Date of change:	
New product stored:		
☐ 5. Tank temporarily out of service - Date:	☐ 6. Tank placed back in service - Date:	
☐ 7. Internal or External Inspection	Date of inspection:	
☐ 8. Retrofit/Upgrade:	Date and description of Retrofit/Upgrade:	

Attach site map with location of the tank, buildings, drinking water wells, and any monitoring wells for tank activities 1, 2, 3, & 4.



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New Castle, DE 19720

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Owner information:

Tank Owner: (BUSINESS or LAST Name, FIRST Name) General Motors Wilmington Assembly Plant		Owner Contact person: John W. Peronti	
Owner Mailing Address: 801 Boxwood Road		Contact Phone: 302-428-7422	Contact Fax: 302-428-7246
		Contact e-mail address: john.w.peronti@gm.com	
City: Newport	State: DE	Zip: 19804	Country: New Castle
		Contact person signature:	Date:

Facility Information:

AST Facility ID#: **7-000218**

Facility Name: General Motors Wilmington Assembly Plant		Facility Contact Person: John W. Peronti	
Mailing Address: 801 Boxwood Road		Phone: 302-428-7422	Fax: 302-428-7246
City: Newport	ST: DE	Zip Code: 19804	e-mail: john.w.peronti@gm.com
Has this facility ever been involved with any of the following DNREC interests for a site investigation? ☒ SIRB ☐ Haz Waste ☐ UST			
If so, are there monitoring wells on site? ☒ YES ☐ NO (Circle One)		Does an on-site well supply drinking water for your facility? No	

Tank Information: (one tank per form only)

Tank ID: C	Capacity: (Gallons) 40,000	Current Product Stored: Gasoline	*All previous products stored: Gasoline	Date of installation: (MM/DD/YY) Circa 1955
Orientation: Circle one Horizontal / ☒ Vertical	Diameter: (feet) 22	Length/Height: (feet) 18	Approx. length of underground piping: (ft.) 200	
Indicate base tank is constructed on: ☐ Concrete ☒ Soil ☐ Sand ☐ Other (describe)				

* All previous products stored for the history of the tank regardless of tank ownership

Tank Activity: (Check one and complete requested information)

☒	1. Permanent closure in place:	Date tank to be permanently closed:	December 17, 2008
☐	2. Tank relocated to new location:	Date to be moved:	
		New Location: (address or distance in feet)	
☐	3. Tank removal:	Date to be removed:	
☐	4. Change in product stored:	Date of change:	
		New product stored:	
☐	5. Tank temporarily out of service - Date:	6. Tank placed back in service - Date:	
☐	7. Internal or External Inspection	Date of inspection:	
☐	8. Retrofit/Upgrade:	Date and description of Retrofit/Upgrade:	

Attach site map with location of the tank, buildings, drinking water wells, and any monitoring wells for tank activities 1, 2, 3, & 4.



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Owner Mailing Address: 801 Boxwood Road			Contact Phone: 302-428-7422	Contact Fax: 302-428-7246
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Mailing Address: 801 Boxwood Road			Phone: 302-428-7422	Fax: 302-428-7246
City: Newport	ST: DE	Zip Code: 19804	e-mail: john.w.peronti@gm.com	
Has this facility ever been involved with any of the following DNREC interests for a site investigation? ☒ SIRB ☐ Haz Waste ☐ UST				
If so, are there monitoring wells on site? ☒ YES ☐ NO (Circle One) Does an on-site well supply drinking water for your facility? No				

Tank Information: (one tank per form only)

Tank ID: F- North	Capacity: (Gallons) 275,000	Current Product Stored: No. 6 Fuel Oil	*All previous products stored: No. 6 Fuel Oil	Date of installation: (MM/DD/YY) Circa 1947
Orientation: Circle one Horizontal / ☒ Vertical	Diameter: (feet) 40	Length/Height: (feet) 27	Approx. length of underground piping: (ft.) 375	
Indicate base tank is constructed on: ☐ Concrete ☒ Soil ☐ Sand ☐ Other (describe)				

* All previous products stored for the history of the tank regardless of tank ownership

Tank Activity: (Check one and complete requested information)

☒ 1. Permanent closure in place:	Date tank to be permanently closed:	September 17, 2008
☐ 2. Tank relocated to new location:	Date to be moved:	
	New Location: (address or distance in feet)	
☐ 3. Tank removal:	Date to be removed:	
☐ 4. Change in product stored:	Date of change:	
	New product stored:	
☐ 5. Tank temporarily out of service - Date:	☐ 6. Tank placed back in service - Date:	
☐ 7. Internal or External Inspection	Date of inspection:	
☐ 8. Retrofit/Upgrade:	Date and description of Retrofit/Upgrade:	

Attach site map with location of the tank, buildings, drinking water wells, and any monitoring wells for tank activities 1, 2, 3, & 4.

APPENDIX B

BORING LOGS

Page: 1 of 1

Hole Designation: GP-1
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MYLET

[illegible]

STRATIGRAPHY LOG (OVERBURDEN)

Page: 1 of 1

Project Name: GM-WILMINGTON
Project Number: 55786
Client: GM
Location: WILMINGTON, DE

Drilling Contractor: ELCHGLRENNERS
Driller: P. WARRICK
Drilling Method: GEOPROBE
Surface Elevation: _____

Hole Designation: C.P. 2
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MULET

L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS								
				Order of Descriptors: Primary Component/Secondary Components Relative Density/Consistency, Grain Size/Plasticity, Gradation/Structure, Color, Moisture Content, Supplementary Descriptors	S A M P L E #	S M A R T P L I D N G	Penetration Record Split Spoon Blows				R E C O V E R Y	S I A N M T P E L R E V A L	P I D (PPM)
	6"	6"	6"				6"						
	O	5	~3' GRAVEL GRAY SILTY CLAY, FINE SAND 0.0 PPM										
	5	10	SILTY, FINE SAND & CLAY GRAY 0.0 PPM										
	10	15	COURSE SAND WITH SILT ORANGE 0.0 PPM.										
			INTER 14'										
			SAMPED 6"-1'										
			#002										

Notes and Comments HA - Hand Auger SS - Split-Spoon Northing -
 NA - Not Available Easting -
 WH - Weight of Hammer

Page: 1 of 1

Hole Designation: GP-3
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. Mylet

[illegible]

Page: 1 of 1

Hole Designation: 6F-4
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MYLET

[illegible]

STRATIGRAPHY LOG (OVERBURDEN)

Page: 1 of 1

Project Name: GM WILMINGTON
 Project Number: 55786
 Client: GM
 Location: WILMINGTON, DE

Drilling Contractor: EICHELBERGERS
 Driller: P. WARRICK
 Drilling Method: GEOPROBE
 Surface Elevation: _____

Hole Designation: GP-5
 Date Started: 4/15/09
 Date Completed: 4/15/09
 CRA Supervisor: M. MYLET

L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS								S I N G L E P L O I D E N G	P E N E T R A T I O N R E C O R D S P L I T S P O O N B L O W S	R E C O R D S P L I T S P O O N B L O W S	S I N G L E P L O I D E N G	P E N E T R A T I O N R E C O R D S P L I T S P O O N B L O W S	N O R T H I N G E A S T I N G																			
					F E E T B G S	A U G E R	T O T A L	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H							S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H	S A M P L E D E P T H											
	O R D E R O F D E S C R I P T O R S	P R I M A R Y C O M P O N E N T S	R E L A T I V E D E N S I T Y																								C O N S I S T E N C Y	G R A D I A T I O N	S T R U C T U R E	C O L O R	M O I S T U R E	S U P P L E M E N T A R Y D E S C R I P T O R S	P E N E T R A T I O N R E C O R D	S I N G L E P L O I D E N G	P E N E T R A T I O N R E C O R D	S I N G L E P L O I D E N G	P E N E T R A T I O N R E C O R D
0	5		0-4 SILT, SOME CLAY / Gray/teal/orange 0.0 PPM																																		
			4-5 COARSE SAND, BROWN ORANGE, TON																																		
S	10		COARSE SAND TON, BROWN ORANGE 0.0 PPM																																		
			WATER ~ 8'																																		
10	15		COARSE SAND: ORANGE 0.0 PPM																																		
			WET 10-15'																																		
			SAMPLED 6"-1'																																		
			005																																		

Notes and Comments

HA - Hand Auger

SS - Split-Spoon

Northing -

NA - Not Available

Easting -

WH - Weight of Hammer



Page: 4 of 10

Hole Designation: GP-6
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MYLET

L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS										
				Order of Descriptors: Primary Component/Secondary Components Relative Density/Consistency, Grain Size/Plasticity, Gradation/Structure, Color, Moisture Content, Supplementary Descriptors	S A M P L E #	S M A R T P L I D N G	Penetration				R E C O V E R Y	S I A N M T P E L R E V A L	(PPM)	N - V A L U E	
	Record Split Spoon Blows														
		F R O M	A T	O				6"	6"	6"	6"				
	0	5		SILTY CLAY, TAN/GRAY/ORANGE	0.0 PPM										
	5	10		5-7 SILTY CLAY TAN/GRAY/ORANGE											
				7-10 SILTY COARSE SAND TAN/ORANGE WEAR 29'											
	10	15		COARSE SAND/SILT ORANGE											
				ENTIRE COLUMN NOT											
				SAMPLED 6'-1'											
				-006											

Notes and Comments

HA - Hand Auger
NA - Not Available
WH - Weight of Hammer

SS - Split-Spoon

Northing -
Easting -

Page: / of '

Drilling Contractor: ELCHENBERGERS
Driller: P. WARRICK
Drilling Method: CECROPRAB
Surface Elevation: _____

Hole Designation: CP-7
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. Mulet

[illegible]

STRATIGRAPHY LOG (OVERBURDEN)

Page: 1 of 1

Project Name: CMA WILMINGTON
Project Number: 55786
Client: CMA
Location: WILMINGTON, DE

Drilling Contractor: EICHELBERGERS
Driller: R. W. MARLICK
Drilling Method: GEOPRONG
Surface Elevation: _____

Hole Designation: GP-8
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MULET

	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS								
				Order of Descriptors: Primary Component/Secondary Components Relative Density/Consistency, Grain Size/Plasticity, Gradation/Structure, Color, Moisture Content, Supplementary Descriptors	SAMPLING METHOD	PENETRATION RECORD	Penetration Record Split Spoon Blows				REMARKS	SOIL ANALYSIS	TEST RESULTS
	#	G	6"				6"	6"	6"				
	O		S	0-3 COARSE ORANGE SAND									
			3-5 TAN/GRAY FINE SILT MUDCLAY										
S		10	COARSE SAND GRAY/ORANGISH										
10		15	ORANGE COARSE SAND WATER @ 14.0'										
			SAMPLED 6'-1' -009										

Notes and Comments HA - Hand Auger SS - Split-Spoon Northing -
NA - Not Available Easting -
WH - Weight of Hammer

STRATIGRAPHY LOG (OVERBURDEN)

Page: 1 of

Project Name: GM WILMINGTON
Project Number: 55786
Client: GM
Location: WILMINGTON, DE

Drilling Contractor: EICHENBERGERS
Driller: P. WENRICK
Drilling Method: GEOPROBE
Surface Elevation: _____

Hole Designation: CP-9
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MYLET

L I T H O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS								S I A N M T P E R Y	S I A N M T P E R Y	P I D L (PPM)	N - V A L U E
					S A M P L E #	S M A R K E D N G	Penetration Record Split Spoon Blows				R E C O V E R Y					
	6"	6"	6"				6"									

0		5	0-4 ORANGE COARSE SAND												
			4-5 TAN GRAY SILTY/FINE SAND/CLOY 30PPM												
5		10	SILTY/COARSE SAND GRAY/TAN 23PPM												
10		15	COARSE SAND ORANGE/BROWN 8PPM												
			WATER 14'												
			SAMPLED 6'-1' -010												
			SAMPLED 13.5-14.0 -011												
														</	

Page: 1 of 1

Hole Designation: G.P. 1D
Date Started: 7/1/09
Date Completed: 7/1/09
CRA Supervisor: M. MUIET

	L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS										
					Order of Descriptors: Primary Component/Secondary Components Relative Density/Consistency, Grain Size/Plasticity, Gradation/Structure, Color, Moisture Content, Supplementary Descriptors	S A M P L E #	S T R I D G	Penetration Record Split Spoon Blows				R C O V E R Y	S I A N M T P E R A L	P I D (PPM)	N - V A L U E	
		6"	6"	6"				6"								
		F R O M	A T	T O												
		M	O	P				L	E	N	G					"
		0		5	1' RECOVERY, SILTY CLAY, BLUISH GRAY w/ BROWN STREAKS.											
5		10	SILTY CLAY, BLUISH GRAY w/ BROWN STREAKS.													
10		15	GRAY COARSE SAND, MIXED SILT CLAY LAYERS, MOIST													
			SO-55786-7109-MM-023 023													
			1330 SAMPLED (.5-1')													
			WATER ~ 12.5'													

Notes and Comments HA - Hand Auger SS - Split-Spoon Northing -
NA - Not Available Easting -
WH - Weight of Hammer

Page: 7 of 1

Drilling Contractor: EICHELBERGERS
 Driller: CARIS
 Drilling Method: GEOPROBE
 Surface Elevation: _____

Hole Designation: GP 11
Date Started: 7/1/09
Date Completed: 7/1/09
CRA Supervisor: M. MYLET

[illegible]

STRATIGRAPHY LOG (OVERBURDEN)

Page: 1 of 1

Project Name: GM-WILMINGTON
 Project Number: 55786
 Client: GM
 Location: WILMINGTON, DE

Drilling Contractor: EICHELEBERGERS
 Driller: CHAS
 Drilling Method: GEOPRAME
 Surface Elevation:

Hole Designation: GP-12
 Date Started: 7/1/09
 Date Completed: 7/1/09
 CRA Supervisor: M. MYLET

L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS								S I A N C O V E R A L (PPM)	N - V A L U E
					S A M P L E #	S M A E M P H L O I D E N G	Penetration Record Split Spoon Blows				R E C O V E R Y	S I A N C O V E R A L		
	6"	6"	6"				6"							
	0	5	NO RECOVERY, SURFACE WATER											
	5	10	SILTY CLAY, BLUISH GRAY, BROWN STAINING											
	10	15	GRAY COARSE SAND, SOME SILT/CLAY LAYERS											
			PUSHED ROD TO 20' TO INSTALL PZ-1											
			SA-55786-7109-MM-022 1030 (6.5-1')											
			SET PZ-1 -											
			GW-55786-7109-MM-025 MM-025											
			GW-55786-7109-MM-025 DUPLICATE											

Notes and Comments



HA - Hand Auger
 NA - Not Available
 WH - Weight of Hammer

SS - Split-Spoon

Northing -
 Easting -

STRATIGRAPHY LOG (OVERBURDEN)

Page: 1 of 1

Project Name: GM-WILMINGTON
 Project Number: 55786
 Client: GM
 Location: WILMINGTON, DE

Drilling Contractor: EICHELBERGERS
 Driller: CNAIS
 Drilling Method: GEOPROBE
 Surface Elevation:

Hole Designation: GP13
 Date Started: 7/1/09
 Date Completed: 7/1/09
 CRA Supervisor: M. MYLET

L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS								S I N G L E P L U E		
					S A M P L E N G	S A M P L E H I D E N G	Penetration Record Split Spoon Blows				R E C O R D Y	S I A N T M T P E L R E V A L		P I D (PPM)	
	6"	6"	6"				6"								
	#	G	6"				6"	6"	6"	Y					L
	✓	5		BLUISH GRAY SILTY CLAY WITH BROWN STREAKS											
	5	9.5		SOME											
	9.5	10		GRAY COARSE SAND MOIST											
	10	15		GRAY COARSE SAND, SOME CLAY SILT LAYERS.											
				SO-55786-7109-MM-021 MS/MSD											
				0945 (.5-1')											
				SET PZ-2, WATER ~ 12'											
				GW-55786-7109-MM-026											

Notes and Comments

HA - Hand Auger

SS - Split-Spoon

Northing -

Easting -

NA - Not Available

WH - Weight of Hammer



Page: 1 of 1

Hole Designation: HA 14
Date Started: 5/20/09
Date Completed: 5/20/09
CRA Supervisor: DR. ANLET

[illegible]

Page: 1 of 1

Hole Designation: NO-15
Date Started: 5/20/09
Date Completed: 5/20/09
CRA Supervisor: M. Mylet

[illegible]

Page: 1 of 1

Hole Designation: GF-16
Date Started: 4/16/08
Date Completed: 4/16/09
CRA Supervisor: Mr. Myler

L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION	SAMPLE DETAILS								S I N G L E P I D L (PPM)	N - V A L U E
					S A M P L E N #	S M A M P L E D I D	Penetration				R E C O R D Y	S I N G L E P I D L		
	Record													
	Split Spoon Blows													
F R O M	A T					6"	6"	6"	6"					
0	5			3" GRAVEL										
				CLAYEY SILT, DARK GRAY/BROWN/GRANGE										
				0.0 PPM										
				SAMPLED 4.5-5.0' -017										

Notes and Comments

HA - Hand Auger

SS - Split-Spoon

NA - Not Available

WH - Weight of Hammer

Northing -

Easting -

Page: _____ of _____

Hole Designation: GP-17
Date Started: 4/18/09
Date Completed: 4/18/09
CRA Supervisor: M. M. M. M.

[illegible]

Page: 1 of 1

Hole Designation: GP-18
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. Mulet

[illegible]

Page: 1 of 1

Hole Designation: CP-14
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MULET

L I T H O L O G Y	Stratigraphic Intervals (Feet BGS)			SAMPLE DESCRIPTION Order of Descriptors: Primary Component/Secondary Components Relative Density/Consistency, Grain Size/Plasticity, Gradation/Structure, Color, Moisture Content, Supplementary Descriptors	SAMPLE DETAILS								S I A N C O V E R Y L	P I D (PPM)	N - V A L U E
					S A M P L E #	S M A T P H O L I D N G	Penetration Record Split Spoon Blows				R E C O V E R Y				
	6"	6"	6"				6"								
0		5	3" GRAVEL SILTY COARSE SAND GRAY/BROWN												
			SAMPLED 4.5-5.0'												

Notes and Comments

HA - Hand Auger

SS - Split-Spoon

NA - Not Available

WH - Weight of Hammer

Northing -

Easting -

Page: of

Hole Designation: GP-20
Date Started: 4/15/09
Date Completed: 4/15/09
CRA Supervisor: M. MYLER

[illegible]

APPENDIX C

ANALYTICAL REPORTS