



Long-Term Stewardship Plan: OU-1 through OU-5

**Former GM Wilmington Assembly Plant
Wilmington, Delaware**

RACER Trust

(Revitalizing Auto Communities Environmental Response Trust)

Original – April 2017

Revision 1 – December 2019

Revision 2 – November 2020

Revision 3 – December 2021

Revision 4 – January 2025

January 01, 2025

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Acronyms and Abbreviations

AST	Aboveground Storage Tank
bgs	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COCs	Contaminants of Concern
DNREC	Delaware Department of Natural Resources and Environmental Control
Fisker	Fisker Automotive, Inc.
GM	General Motors Corporation
GMP	Groundwater Monitoring Plan
HSCA	Hazardous Substance Cleanup Act
LTS	Long Term Stewardship Plan
MLC	Motors Liquidation Company
OU	Operable Unit
RACER	Revitalizing Auto Communities Environmental Response Trust
RI	Remedial Investigation
RI/FS	Remedial Investigation and Feasibility Study
RCRA	Resource Conservation and Recovery Act
Site	851 and 1025 Boxwood Road, Wilmington, Delaware
SVOC	Semi volatile Organic Compound
UST	Underground Storage Tank
VOC	Volatile Organic Compound
Wanxiang	Delaware Real Estate Holdings
WWTP	Waste Water Treatment Plant

1. Introduction

This Long-Term Stewardship Plan (LTS) has been developed to manage post remedial actions of groundwater and soil at the Former General Motors (GM) Corp. Wilmington Assembly Plant (Site) located at 851 and 1025 Boxwood Road in Wilmington, Delaware. The Site location is shown in Figure 1.1. This LTS covers the management of the five Operable Units (OUs) where cleanup activities have been completed.

1.1 Scope of LTS

The scope of this LTS is to detail: the groundwater monitoring requirements and schedule to be followed to monitor the attenuation of the groundwater Contaminants of Concern (COCs), the Site inspection schedule to be followed to ensure long term integrity of the remedy, and a vapor intrusion evaluation to be used in the event of any new construction.

The Site has been divided into six OUs. Site investigations have been conducted since at least 1990 on the six OUs. The location of the OUs is shown on Figure 1.2. OU-6 is excluded from this LTS because the 2015 Remedial Investigation (RI) Report did not identify known or potential releases from historical operations at this OU. A brief description of the OUs is provided in the table below.

Operable Units	Description
OU-1	The pump house and aboveground storage tanks (AST) L through Tank O in the AST containment area. Covers soil and groundwater.
OU-2	Large AST Area/Truck Unloading Rack and surrounding areas. Cover soil and groundwater.
OU-3	Main Assembly Plant Area soil and groundwater not included in other OUs.
OU-4	Former Petroleum Dispensing and underground storage tank (UST). Area soil plus groundwater under OU-4.
OU-5	Former Test Track Area. Covers soil and groundwater.
OU-6	Wooded Area adjacent to Little Mill Creek. Covers soil and groundwater (not subject to LTS).

This LTS covers the impacted area in OU-1 which contains contaminated soil, and the impacted areas of OU-2, OU-3, OU-4, and OU-5 all of which contain contaminated soil and groundwater.

2. Background

The Site consists of real property located at 851 and 1025 Boxwood Road, Wilmington, New Castle County, Delaware. It comprises two tax parcels totaling approximately 142 acres of land (which includes the area of OU-6) which, formerly included a 3.2 million square foot Main Assembly Building, Waste Water Treatment Plant, Pump Houses, and Powerhouse. GM developed the Site from 1945 to 1947 and used it for automobile assembly operations until July 2009. Presently, the site has been redeveloped for logistics and warehouse use, to be contained in two buildings which are both substantially complete.

During GM's 2009 bankruptcy, certain operating assets of GM were sold on to the newly formed entity known as General Motors LLC. Assets that were not sold to General Motors LLC, including the Site, remained the property of GM, which by then had changed its name to Motors Liquidation Company (MLC). In its capacity as debtor in possession in the bankruptcy case, MLC sold the Site to Fisker Automotive, Inc. (Fisker) in July 2010.

On March 31, 2011, the Revitalizing Auto Communities Environmental Response Trust (RACER Trust) became effective and since then RACER Trust has been conducting and managing cleanups at several dozen former GM properties, including the Site. It should be noted that the Delaware Department of Natural Resources and

Environmental Control (DNREC) removed the Site from RCRA in the early 2000s and placed it into the Brownfield/Superfund program which is governed by the Hazardous Substance Cleanup Act (HSCA).

Between July 2009 and April 2014, the Site remained largely idle while Fisker evaluated opportunities to use the plant for assembly of Fisker automobiles. The Site was purchased by Wanxiang Delaware Real Estate Holdings (Wanxiang) in April 2014 as part of a purchase by Wanxiang of Fisker's assets. In October 2017, Harvey, Hanna & Associates, Inc.'s special purpose entity, Boxwood Industrial Park, LLC (Boxwood), purchased the Site from Wanxiang. On November 7, 2019, Dermody Properties' special purpose entity DPIF2 DE 1 New Castle, LLC (Dermody) purchased portions of the Site (OU-1, OU-2 and OU-3) from Boxwood. On January 29, 2020, Dermody purchased additional portions of the Site (OU-4 and OU-5) from Boxwood. Dermody completed Site redevelopment activities in September 2021, which included an approximately 820,000 square foot logistics building in OU-1, OU-2 and OU-3 and an approximately 220,000 square foot warehouse building in OU-3 and OU-5. No buildings are currently planned in the OU-4 area, and it is currently parking or landscaped; however, this area may be developed with additional buildings or other improvements in the future. Dermody also reconfigured the Site into two tax parcels by legal subdivision, whereas there were formerly five total. DPIF2 DE 1 New Castle, LLC currently owns Lot 1 which contains the approximately 820,000 square foot building and associated improvements, and DPIF2 DE2 New Castle2, LLC currently owns Lot 2 which contains the approximately 220,000 square foot building and associated improvements.

GM's automobile assembly operations included storage and use of petroleum products for fueling and heating, painting, wastewater treatment, parts cleaning, and hazardous waste storage. Each of these operations used various chemicals. Releases are believed to have occurred at the Site as a result of GM's operations, which releases subsequently impacted the soil at and groundwater beneath the Site.

2.1 Geology

A review of the soil borings completed during the 2015 RI shows the soils at the Site to be fill underlain by unconsolidated sediments consisting primarily of silty sands and clays, from below the paved surface to a depth of approximately 8 to 10 feet below ground surface (bgs). Gravel lenses are seen ranging in thickness from 1 to 10 feet at varying depths across the Site. A review of historical soil boring logs from previous investigations indicates that there appears to be a continuous sand layer ranging from 16 to 30 feet in thickness with starting depths ranging from approximately 7.8 to 11.5 feet bgs and extending to depths ranging from approximately 23.8 to 40 feet bgs (based on ground surface elevations prior to development activities, which included regrading of the Site). The historical logs also indicate that the sand layer is underlain by reddish brown clay of an undetermined thickness.

2.2 Hydrogeology

On Site, groundwater was observed at an average depth of approximately 12 feet bgs (based on ground surface elevations prior to development activities, which included regrading of the Site) during previous investigations from 2011 to 2013. The now-demolished Main Assembly Plant appeared to have created a groundwater divide at the Site, with groundwater on the east side flowing to the east toward Little Mill Creek and groundwater on the west side flowing to the west towards Red Clay Creek.

Historically, surface water flow across the Site was directed to the on-Site storm sewer system, which discharged to Little Mill Creek at Outfall 001. The redevelopment of the Site did not change the storm sewer system point of discharge to Little Mill Creek; however, some surface water flow is first directed to three bio-basins before entering the on-Site storm sewer system which connects to Outfall 001. With the exception of Little Mill Creek which is located in OU-6, there were no surface water bodies or waterways (streams, rivers, lakes, etc.), including associated wetlands, floodplains, and riparian zones, present on or immediately adjacent to the Site.

Little Mill Creek is located in the wooded area along the eastern property boundary. Approximately 1,000 feet of this creek is located within the Site property. Little Mill Creek discharges to the Christina River approximately 1 mile downstream. Red Clay Creek is located approximately 1.1 miles west of the Site and also discharges to the Christina River. The Christina River is the major river draining this portion of New Castle County. There are no lakes or significant ponds within one mile of the Site.

3. Contaminant Sources and Impacted Area

3.1 Impacted Operable Units

The impacted OUs were sampled between 1998 and 2019 to monitor the extent of soil and groundwater contamination. Soil and groundwater contained elevated levels of volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), and metals. Sampling locations are presented on Figure 1.2, while a summary of historical soil (excluding excavated or removed soil) and groundwater data are presented by location and OU in Table 3.1 below. Detailed analytical data are presented in Appendix A.

Table 3.1 Maximum Concentrations in Soil and Groundwater: OU-2 through OU-5

Parameter	HSCA Screening Level (Soil - November 2021)	Maximum Concentration Exceeding Screening Levels (mg/kg)	Location of Maximum Concentration	HSCA Screening Level (Groundwater - November 2021)	Maximum Concentration Exceeding Screening Levels (mg/L)	Location of Maximum Concentration
VOCs						
Acetone	6,100	--	--	1.4	470	OU-2
Benzene	1.2	24	OU-4	0.00046	1.5	OU-2
2-Butanone	2,700	--	--	0.56	0.85	OU-2
Carbon tetrachloride	0.65	--	--	0.00046	0.013	OU-4
Chlorobenzene	28	--	--	0.0078	1.3	OU-2
Chloroform	0.32	--	--	0.00022	0.024	OU-4
1,2-Dibromoethane	0.036	--	--	0.0000075	0.0018	OU-4
1,2-Dichlorobenzene	180	--	--	0.03	0.089	OU-2
1,4-Dichlorobenzene	2.6	--	--	0.00048	0.12	OU-2
1,1-Dichloroethane	3.6	--	--	0.0028	0.0078	OU-3
1,2-Dichloroethane	0.46	--	--	0.00017	0.071	OU-4
cis-1,2- Dichloroethene	16	--	--	0.0036	0.0092	OU-5
Ethylbenzene	5.8	2,000	OU-2	0.0015	22	OU-2
N-Heptane	2.2	300	OU-2	0.0006	-	--
2-Hexanone	20	--	--	0.0038	0.026	OU-4
Isopropyl benzene	190	--	--	0.045	0.56	OU-2
4-Methyl-2-pentanone	3,300	--	--	0.630	1.9	OU-2
Methyl tert butyl ether (MTBE)	47	--	--	0.01	1.4	OU-2
Methylene chloride	35	--	--	0.005	0.091	OU-4
Tetrachloroethene	8.1	--	--	0.001	0.0089	OU-3
Toluene	490	2,000	OU-2	0.11	190	OU-2
Trichloroethene	0.41	0.51	OU-5	0.00028	0.0095	OU-4
1,2,4-Trichlorobenzene	5.8	--	--	0.0004	0.022	OU-2
1,2,4-Trimethylbenzene	30	250	OU-4	0.0056	2.8	OU-4
1,3,5-Trimethylbenzene	27	64	OU-4	0.006	0.23	OU-4
Vinyl chloride	0.059	--	--	0.000019	0.042	OU-5

Parameter	HSCA Screening Level (Soil - November 2021)	Maximum Concentration Exceeding Screening Levels (mg/kg)	Location of Maximum Concentration	HSCA Screening Level (Groundwater - November 2021)	Maximum Concentration Exceeding Screening Levels (mg/L)	Location of Maximum Concentration
Xylenes	58	3,300	OU-2	0.019	35	OU-2
SVOCs						
2,4-Dichlorophenol	19	--	--	0.0046	0.018	OU-2
2,4-Dimethylphenol	130	--	--	0.036	0.6	OU-2
2,6-Dinitrotoluene	0.36	--	--	0.00005	0.004	OU-2
4-Chloroaniline	2.7	--	--	0.00037	0.0017	OU-2
2-Methylnaphthalene	24	--	--	0.0036	0.18	OU-4
2-Methylphenol	320	--	--	0.093	0.29	OU-2
4-Methylphenol	630	--	--	0.19	0.77	OU-2
Acetophenone	780	--	--	0.19	0.46	OU-2
Benzaldehyde	170	--	--	0.019	0.14	OU-2
Benzo(a)anthracene	1.1	3.6	OU-2	0.00003	0.000052	OU-2
Benzo(a)pyrene	0.24	3.2	OU-2	0.000025	0.000035	OU-2
Benzo(b)fluoranthene	1.11	2.9	OU-2	0.00025	-	--
Bis(2-ethylhexyl)phthalate (DEHP)	39	--	--	0.0056	0.016	OU-2
Biphenyl	4.7	--	--	0.000083	0.012	OU-4
Dibenzofuran	7.3	--	--	0.00079	0.0038	OU-2
Dibenz(a,h)anthracene	0.17	0.41	OU-2	0.000025	0.0037	OU-2
Indeno(1,2,3-cd)pyrene	1.3	-	--	0.00025	0.0037	OU-2
Naphthalene	3.8	70	OU-5	0.00017	3.2	OU-2
Pentachlorophenol	--	--	--	0.000041	0.0006	OU-2
Metals						
Aluminum	51,200	33,100	OU-3	2	77.7	OU-2
Antimony	3.1	1,896	OU-5	0.00078	0.0067	OU-2
Arsenic	11	3,578	OU-5	0.000052	0.0478	OU-2
Barium	1,500	688,400	OU-5	0.38	1.39	OU-5
Cadmium	7.1	2,946	OU-5	0.00092	0.0055	OU-2
Chromium	214	25,200	OU-5	0.01	0.251	OU-2
Cobalt	34	778	OU-5	0.0006	0.234	OU-2
Copper	310	3,200	OU-5	0.08	-	
Iron	74,767	264,440	OU-5	1.4	285	OU-2
Lead	400	35,480	OU-5	0.015	0.124	OU-2
Manganese	2,100	11,074	OU-5	0.043	32.4	OU-4
Mercury	1.1	52.5	OU-5	0.000063	0.004	OU-4
Nickel	150	468	OU-5	0.039	0.0767	OU-4
Selenium	39	--	--	0.01	0.016	OU-2
Silver	39	--	--	0.0094	0.0117	OU-2

Parameter	HSCA Screening Level (Soil - November 2021)	Maximum Concentration Exceeding Screening Levels (mg/kg)	Location of Maximum Concentration	HSCA Screening Level (Groundwater - November 2021)	Maximum Concentration Exceeding Screening Levels (mg/L)	Location of Maximum Concentration
Thallium	0.078	19.1	OU-5	0.00002	0.0274	OU-4
Vanadium	134	272	OU-3	0.0086	0.199	OU-2
Zinc	2,300	105,200	OU-5	600	-	
Notes: HSCA – Hazardous Substance Cleanup Act (--) - Not measured above HSCA Screening levels VOC - Volatile Organic Compound SVOCs - Semi Volatile Organic Compound						

3.1.1 OU-1: Pump House and Former ASTs L through O

Prior to 2002 there were no identified or documented releases of petroleum products or other hazardous substances. A power steering fluid release occurred in the AST area associated with OU-2 in 2002. In 2004 after a soil removal interim action, DNREC issued a No Further Action (NFA) letter for OU-1. Dermody constructed an approximately 820,000 square foot logistics building, support areas, and associated parking lots in OU-1, OU-2, and OU-3.

3.1.2 OU-2: Large AST/Truck Unloading Rack and Surrounding Area

OU-2 was previously a large AST and tanker truck unloading area. A petroleum release occurred at the Site likely as a result of historical leaks from the tanks and piping of the large ASTs. MLC conducted a Remedial Investigation and Feasibility Study (RI/FS) in 2009 to evaluate groundwater conditions in the OU-2 area. This investigation found that the groundwater contained VOCs (acetone, benzene, chlorobenzene, ethylbenzene, methyl tert-butyl ether, toluene, and xylenes); SVOCs (bis-2-ethylhexylphthalate, methylphenol, and naphthalene); and metals (arsenic, chromium, lead, manganese, and vanadium) over DNREC drinking water standards. However, groundwater is not used on Site for drinking water. Additionally, groundwater contamination in this area has not migrated from the OU-2 area. The VOCs in OU-2 groundwater present a potential vapor intrusion (VI) risk. RACER Trust conducted an investigation into VOC impacted soil that present a potential VI risk in OU-2 in August/September 2019 to support redevelopment opportunities. RACER Trust then excavated a portion of the impacted soils that have the potential to pose a VI risk to future buildings in OU-2 in October 2019 and DNREC issued an NFA for OU-2 on November 15, 2019. Additionally, while removing the footings and foundation of the Main Assembly Building in the OU-2 area between early February and late March 2020, Dermody excavated underground piping and approximately 3,600 cubic yards of contaminated surrounding soil. RACER Trust removed the 5,567.32 tons of soil and underground piping for off-site disposal in September and October 2020. Dermody constructed an approximately 820,000 square foot logistics building, support areas, and associated parking lots in OU-1, OU-2, and OU-3.

3.1.3 OU-3: Main Assembly Plant Area

OU-3 includes the Main Assembly Plant Area. The RI Report completed in 2015 concluded that the surface soil in OU-3 contained the SVOC benzo(a)pyrene and metals (antimony, arsenic, cobalt, lead, manganese, mercury, and nickel) over HSCA Screening Levels for residential use of the property.

The RI report concluded that groundwater in OU-3 contained VOCs (1,1-dichloroethane, benzene, chloroform, ethylbenzene, tetrachloroethene, trichloroethene, and xylenes), SVOCs (naphthalene), and metals (aluminum, arsenic, barium, cobalt, iron, lead, manganese, selenium, and vanadium) above HSCA Screening Levels.

There was a groundwater divide under the now demolished Main Assembly Building, with half of the water flowing to the east and half flowing to the northeast toward Little Mill Creek. The portion flowing toward Little Mill Creek is not impacting Little Mill Creek. In addition, there are no drinking water receptors located to the northeast of the Site. No

remedial actions have been conducted at OU-3 by RACER Trust. However, while removing the footings and foundation of the former Main Assembly Building in the OU-3 area between early February and late March 2020, Dermody removed three previously closed USTs and excavated approximately 4,100 cubic yards of contaminated surrounding soil that included 400 cubic yards of contaminated pea gravel material inside and surrounding the USTs. RACER Trust removed the 6,863.95 tons of soil and 75.83 tons of pea gravel material for off-site disposal in September and October 2020. Dermody installed utilities (electric, sanitary sewer, storm sewer and water) and constructed an approximately 820,000 square foot building and associated parking lots in OU-1, OU-2, and OU-3. A supplemental VI Assessment was performed in the areas in OU-2 and OU-3 prior to constructing the approximately 820,000 square foot logistics building. Using site-specific data in the Johnson and Ettinger Model, DNREC determined that the VI risk did not exceed the acceptable risk for commercial use as further described in DNREC's letter to RACER Trust and Dermody dated September 1, 2020.

3.1.4 OU-4: Former Petroleum Dispensing and UST Area

OU-4 was previously a petroleum dispensing and UST area. The RI report found that the soil in OU-4 contained SVOCs 2-methylnaphthalene and metals (cobalt and manganese) above HSCA Screening Levels.

The RI report found that groundwater in OU-4 contained VOCs (1,2-dichloroethane, benzene, carbon tetrachloride, chloroform, ethylbenzene, 1,2,4-trimethylbenzene, 1,4-dichlorobenzene, isopropyl benzene, toluene, xylenes, 2-hexanone, and trichloroethene), SVOCs (naphthalene, dibenzofuran, biphenyl, and 2-methylnaphthalene), and metals (arsenic, barium, cobalt, manganese, iron, aluminum, and vanadium) above HSCA Screening Levels.

The RI report concluded that the potential risk to human health related to groundwater was associated with OU-4. Therefore, remedial actions to address this groundwater contamination were evaluated as part of the 2020 OU-4 Feasibility Study and the 2019 OU-4 Supplemental VI Risk Evaluation (Appendix A of the OU-4 Feasibility Study). This evaluation concluded that on Site and off-Site VI concerns in OU-4 for current and reasonably anticipated future scenarios do not require any additional or ongoing action, and therefore, no active remedies (Soil Vapor Extraction [SVE], etc.) or additional remedial activities are necessary. Dermody installed utilities (electric and storm sewer), constructed privacy berms along the eastern perimeter of OU-4, and constructed a parking lot in OU-4.

3.1.5 OU-5: Former Test Track Area

OU-5 consists of the Former Test Track Area. The RI report concluded that the soil in OU-5 contained VOCs (1,4-dichlorobenzene, ethylbenzene, xylenes), SVOCs (2-methylnaphthalene, benzo(a)pyrene, naphthalene), and metals (antimony, arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, thallium, vanadium, and zinc) over HSCA Screening Levels.

In 2015 RACER Trust conducted a Human Health Risk Assessment (HHRA) as part of the RI to determine whether releases of site related chemicals to environmental media posed an unacceptable risk to human health under current or potential future exposure conditions. Contaminants of Potential Concern (COPC) that were evaluated in the risk assessment were identified as those constituents where the maximum detected concentrations exceeded the HSCA Screening Levels.

Based on the conclusions in the 2015 HHRA, soil in portions of OU-5 (MW-29, BH-34-11, and BH-27-11/MW-28) was identified for future action to address the risks from potential VI and direct contact exposure to soil. In a VI re-evaluation memorandum, submitted to DNREC on December 20, 2018, the VI exposure risk from OU-5 soil into indoor air was re-evaluated based on the then reasonably anticipated future redevelopment activities in OU 5. As part of this re-evaluation, the exposure point concentrations used to estimate the Reasonable Maximum Exposure (RME) in the 2015 HHRA were updated by removing detected concentrations in the areas around locations MW-29, BH-34-11, and BH-27/MW-28-11 by assuming the remedy would consist of excavating an approximately 40 ft x 40 ft x 5 ft area for each location, and excluding soil samples collected below the water table at or in the vicinity of each location. The updated non-cancer hazard index (HI) estimate for potential VI from soil into non-residential buildings was 0.05, which does not exceed the HI limit of one. The cumulative cancer risk estimate was not calculated because all carcinogens evaluated in the 2015 HHRA would be non-detect after removal action was complete.

RACER Trust prepared a Focused Feasibility Study (FFS) Report for OU-5 in 2017 to evaluate remedial approaches for impacted soil. RACER Trust developed the following Remedial Action Objectives (RAOs) to protect human health and the environment: (1) prevent human direct contact exposure to soil concentrations that pose a potentially significant risk to human health; (2) mitigate the potential for human inhalation exposure to indoor air vapors resulting from soil that pose a potentially significant risk to human health; and (3) protect surface water and sediments by mitigating the potential for erosion of impacted soil in OU-5 to Little Mill Creek.

The preliminary remediation goals (PRGs) for OU-5 soil outlined in the FFS were to remove sufficient impacted soil containing COCs at elevated concentrations to reduce the overall target cancer risk levels to less than 1×10^{-5} and target non cancer HI of one for outdoor worker and utility worker direct contact exposure scenarios, as evaluated in the 2015 HHRA.

In December 2019 RACER Trust excavated impacted soil that had the potential to pose a VI risk to future buildings in OU-5 (MW-29 area) and of impacted soil that posed a direct contact risk (BH-34-11 and BH-27-11/MW-28 areas). Additionally, at this time RACER Trust patched and sealed the asphalt parking lot in the Test Track Area of OU-5 to serve as a temporary cap and to eliminate potential direct contact with soil until redevelopment activities were complete and a permanent cap could be installed. Redevelopment activities in OU-5 included utility removal (storm sewer) and installation (storm sewer and electric), construction of a 220,000 square foot warehouse building, construction of a privacy berm along the southern boundary of OU-5, and installation of a permanent cap comprised of a concrete building slab, landscaping, and concrete or pavement parking lots/roadways. BrightField's November 4, 2021, Draft Documentation of Cap Placement for Operable Unit 5 letter was approved with minor revisions by DNREC on November 5, 2021, as certification of completion of the permanent cap. The Final Documentation of Cap Placement for Operable Unit 5 letter was submitted on November 8, 2021 and documented the installation of a permanent cap by Dermody. The DNREC-approved OU-5 Cap Area RAWP (April 12, 2021) and the DNREC-approved December 2020 CMMP prescribed the approach for managing soil and documenting the final cap.

3.2 Extent of Residual Impacts to Groundwater

The observed average depth to groundwater prior to development activities on-Site was approximately 12 feet bgs.

Excavation workers conducting subsurface activities have the potential to come in contact with impacted groundwater. This potential is limited as the depth to groundwater is generally deeper than most utilities. GM/MLC conducted a Limited Action remedy in the vicinity of the OU-2 Area from August 2008 through May 2010. The groundwater analytical data generated throughout the duration of the Limited Action remedy demonstrated that the extent of groundwater contamination at OU-2 had not migrated beyond OU-2 as of the study period.

A temporary wastewater discharge permit may be required for disposing water from future dewatering operations.

3.3 Extent of Residual Impacts to Soil

Based on the previous analysis of impacted soil, soil with concentrations above the screening criteria of metals and VOCs may be encountered during excavations of less than 12 feet bgs, based on the grade prior to site development which included regrading of the Site.

4. Authority and Accountability

RACER Trust will perform the LTS activities at the Site and can be reached via U.S. Postal Service mail at P.O. Box 43859, Detroit, MI 48243.

5. Engineered Controls

5.1 Maintenance Methods

DNREC approved the Final Plans of Remedial Action for OU-1, OU-2 and OU-3 in December 2015, and the Final Plan of Remedial Action for OU-4 in June 2020. The Final Plan of Remedial Action for OU-4 describes the interim action taken in February 2015 to remediate OU-4 groundwater before all OU-4 investigations were complete. RACER Trust installed the SVE system in February 2015 and shut it off with DNREC's approval in August 2019. The SVE system has not been completely removed and remains in place in OU-4. It is not anticipated that the SVE system will need to be restarted; however, DNREC determined that the system should be kept in place in case the situation changes and restarting of the SVE system is warranted. The Final Plan of Remedial Action for OU-5 was approved in August 2019. The Final Plans for OU-1, OU-2, OU-3, and OU-4 do not include any active or passive remedial systems which require maintenance and, therefore, an operations, maintenance, and monitoring plan is not required for these OUs. The Final Plan for OU-5 includes a temporary asphalt cap over the Test Track Area, which required quarterly cap inspections until a permanent cap was constructed. The quarterly cap inspections were performed to evaluate whether the temporary cap was functioning as designed (i.e., preventing direct contact with impacted soil) and to monitor the integrity of the cover. Quarterly cap inspections ceased in December 2020 as requested in a December 4, 2020, letter to DNREC and approved by DNREC via email on December 14, 2020, due to ongoing redevelopment activities in OU-5. Dermody completed installation of the permanent cap in August 2021 consisting of a concrete building slab, landscaping, and concrete or pavement parking lots/roadways as documented in BrightField's November 8, 2021, Final Documentation of Cap Placement for Operable Unit 5 letter.

Annual permanent cap inspections will occur starting in 2022 and will consist of a visual inspection of the cap covers (concrete slab, concrete and paved parking lots/roadways, landscaped areas) for potential breaches that could result in chronic direct contact exposure to the soil beneath the cap.

A Groundwater Monitoring Plan (GMP) for OU-2 is provided in Appendix B to this report. This GMP was developed to monitor the groundwater in OU-2 to ensure groundwater impacted with COCs are not extending beyond the OU-2 boundary and that COCs are not statistically increasing over the monitoring period.

A GMP for OU-4 is provided in Appendix C to this report. RACER Trust developed this GMP to monitor the groundwater in OU-4 to ensure groundwater impacted with COCs is stable or decreasing and that COCs are not statistically increasing over the monitoring period.

A GMP for OU-5 is provided in Appendix D to this report. This GMP was developed to monitor the groundwater in OU-5 to ensure groundwater impacted with COCs are not extending beyond the OU-5 boundary and that COCs are not statistically increasing over the monitoring period.

All work required by this LTS Plan shall be performed to DNREC's satisfaction in accordance with the Final Remedial Plans for each OU, and to date DNREC has been satisfied with all completed work.

6. Institutional Controls

As required by the Final Plans of Remedial Action for OU-1, OU-2, OU-3, OU-4, and OU-5, an Environmental Covenant or Covenants to establish restrictions on future activities at the Site have been agreed-to by the Site owner and recorded in the Office of the Recorder of Deeds in and for New Castle County. The restrictions in such Covenant(s) include the following:

- a. Use Restriction. Use of the property is restricted solely to those non-residential type uses permitted within commercial, manufacturing, or industrial districts respectively, as such district types and uses (including ancillary

or accessory uses) are permitted pursuant to the corresponding zoning district classification of the New Castle County Code.

- b. Limitation of Groundwater Withdrawal. No groundwater wells shall be installed and no groundwater shall be withdrawn from any well on the Property without prior written approval of DNREC Remediation Section (RS) and DNREC's Division of Water.
- c. Compliance with the Long-Term Stewardship Plan. For OU-2, OU-3, and OU-5, all work required by the Long-Term Stewardship Plan must be performed to DNREC's satisfaction in accordance with the Final Plan.
- d. Compliance with the Contaminated Materials Management Plan (CMMP). All work required by the Contaminated Materials Management Plan must be performed to DNREC's satisfaction in accordance with the Final Plan. The DNREC-approved CMMP will provide guidance to construction workers on how to safely manage and interact with any potentially contaminated media at the Site.

The Environmental Covenant(s) are binding upon the owner and all assigns and successors in interest, including any transferee, and run with the land.

The Site is a former industrial property, now repurposed for logistics/warehouse and the anticipated future land use will remain non-residential.

7. Funding Requirements

Given the nature of the selected remedial approach for OU-1 and OU-3, there are no anticipated long-term operation, monitoring and maintenance (LTOMM) costs associated with the engineered or institutional controls for these two OUs. LTOMM costs associated with OU-2, OU-4, and OU-5 are anticipated and have been documented by RACER Trust, in concurrence with DNREC, in the 2011 Settlement Agreement. The LTOMM cost estimates are included in Table 7.1. Further details on the LTOMM are in the OU-2, OU-4, and OU-5 GMPs (Appendix B, Appendix C, and Appendix D, respectively).

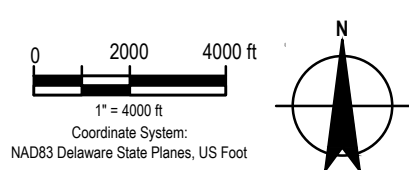
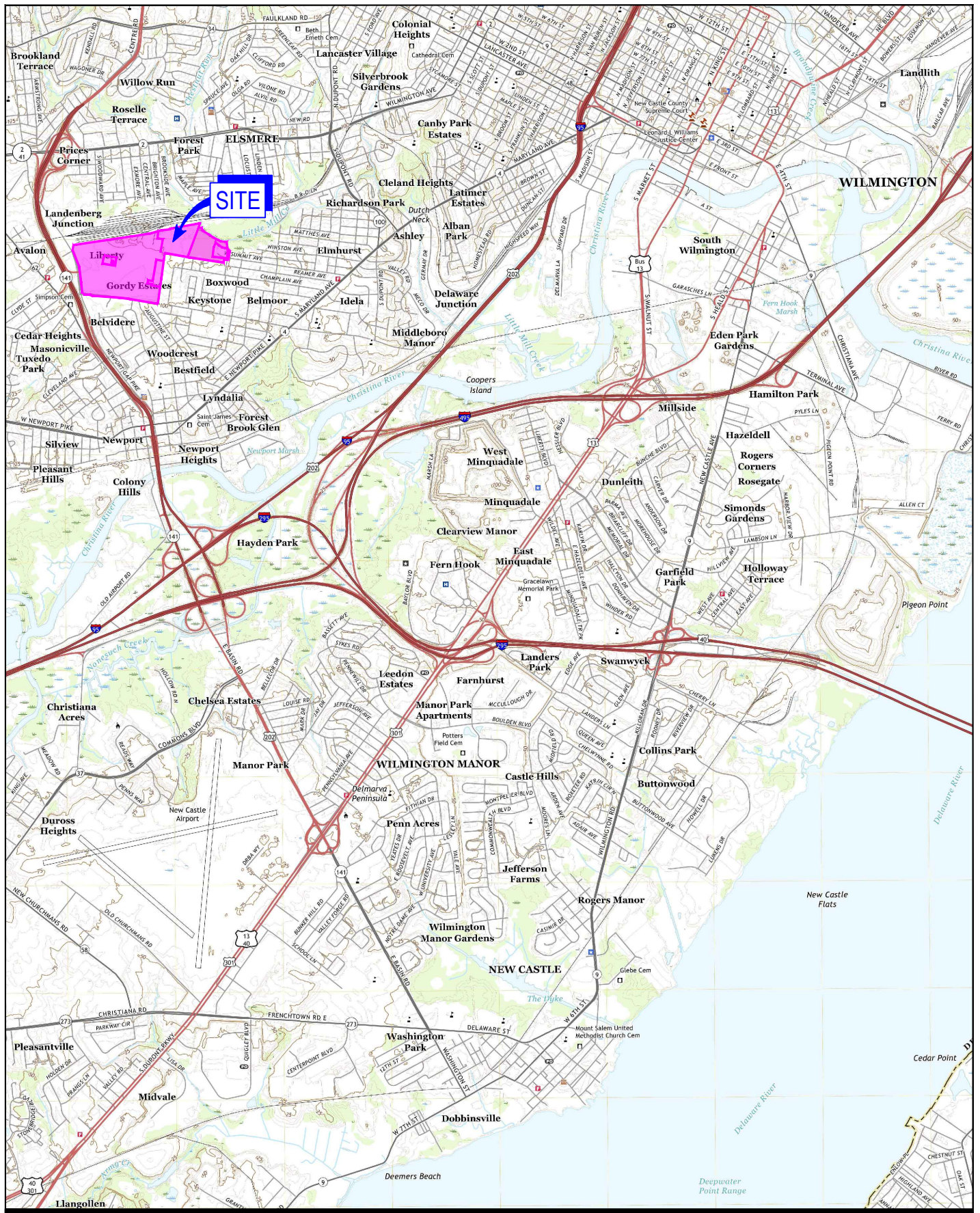
Table 7.1 LTOMM Cost Estimates for OU-2, OU-4 and OU-5

Item/Description	OU-2	OU-4	OU-5
Annual Cost	\$15,000	\$20,000	\$30,000
Total Annual Groundwater Sampling	\$130,826	\$197,265	\$295,897.55
Notes: Annual costs listed are current as of December 2021 conditions and assumptions.			

8. Information/Records Management

RACER Trust will keep electronic files, maps, photos, etc. as a record of its LTS activities. The complete file on the Site's remediation, including the RI and various reports, is available online at <http://www.nav.dnrec.delaware.gov/DEN3>.

Figures

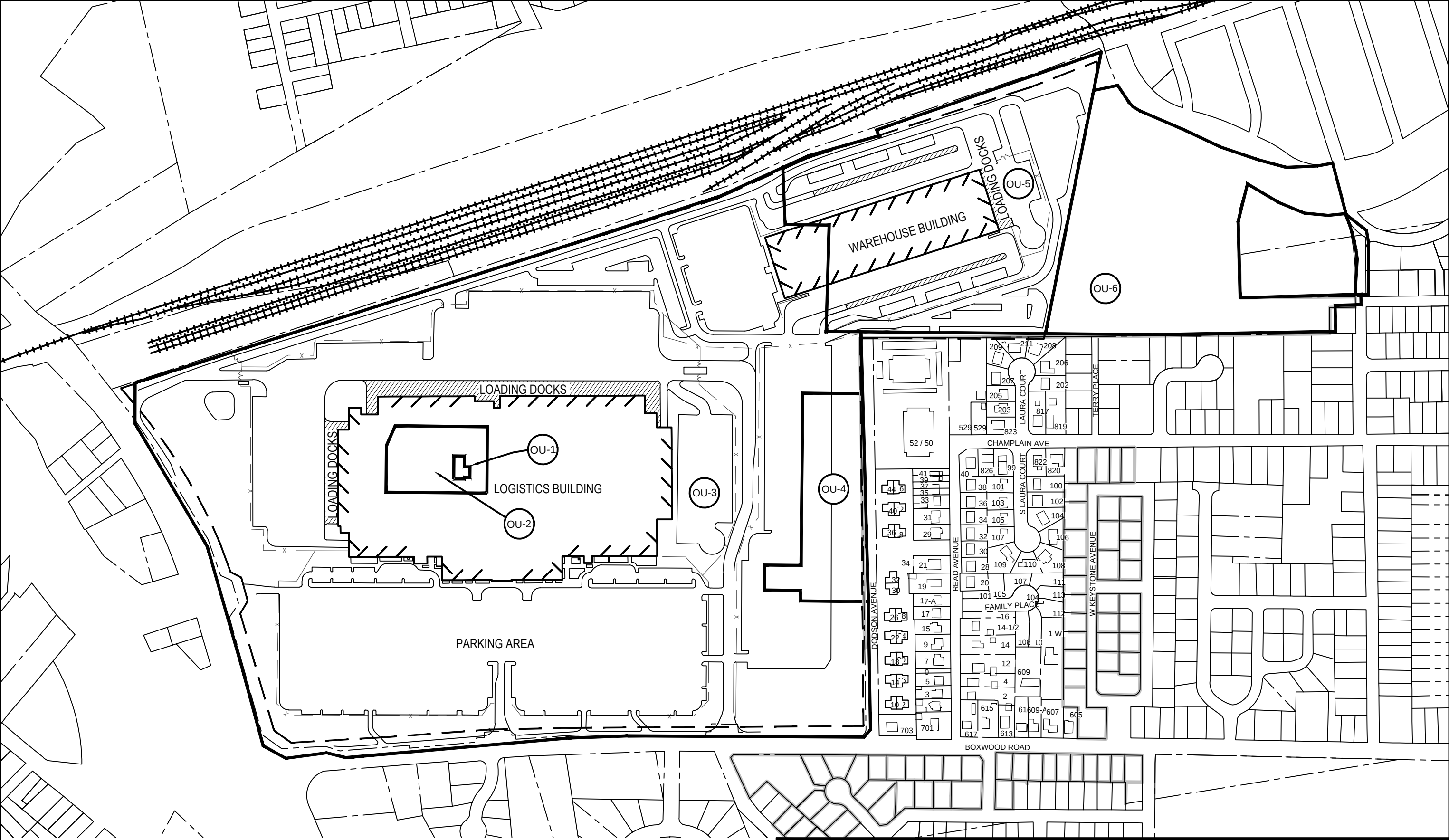


**RACER
WILMINGTON, DELAWARE
LONG-TERM STEWARDSHIP PLAN**

Project No. 11222397
Date December 2021

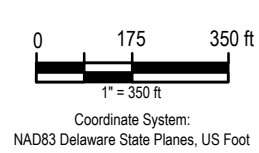
FACILITY LOCATION

FIGURE 1.1



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- ++++ RAILWAY
- - - FENCELINE



RACER
WILMINGTON, DELAWARE
LONG-TERM STEWARDSHIP PLAN

LOCATION OF OPERABLE UNITS

Project No. 11222397
Date December 2021

FIGURE 1.2

Appendices

Appendix A

Historical Groundwater and Soil Exceedances

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2
Sample Location:			BH1-19	BH1-19A	BH1-19A	BH1-19B	BH1-19B	BH1-19C	BH1-19D	BH1-19D	BH1-19E	BH1-19G	BH1-19H	BH2-19	BH2-19	BH3-19	BH4-19	BH4-19A	BH4-19A
Sample Date:			8/15/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	8/27/2019	8/27/2019
Sample Depth:			(5-6) ft BGS	(7.5-) ft BGS	(11.5-) ft BGS	(7.5-) ft BGS	(11.5-) ft BGS	(11.5-) ft BGS	(9-) ft BGS	(11.5-) ft BGS	(11.5-) ft BGS	(7-) ft BGS	(6.5-) ft BGS	(4-5) ft BGS	(6-7) ft BGS	(5-6) ft BGS	(9-10) ft BGS	(9.5-) ft BGS	(11.5-) ft BGS
Source:			Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																	
Volatile Organic Compounds																			
1,2,4-Trimethylbenzene	mg/kg	30	0.5 J	0.32	0.094 J	2.2	5.7	23	1.5 J	0.58	0.51	0.8	0.049 J	0.043 J	0.00085 U	0.081 U	0.82	1.1 J	5.5
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	0.77 U	0.1 U	0.11 U	0.93 U	0.64 U	2.1 U	1 J	0.2	0.095 U	0.53 U	0.098 U	0.086 U	0.00085 U	0.052 J	0.56 J	1.4 U	4.1 U
Ethylbenzene	mg/kg	5.8	100	0.95	0.84	300	210	400	320	27	3.5	110	1.9	9.8	0.0011	8.9	120	260	750
N-Heptane	mg/kg	2.2	16	5.4	1.3	42	32	63	46	3.8	0.47 U	15	0.49 U	0.24 J	0.00085 U	0.26 J	4 U	38	96
Toluene	mg/kg	490	190	0.1 U	0.049 J	46	9.9	280	540	56	0.095 U	96	0.098 U	0.14	0.0019	20	130	370	1000
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	190	0.36	0.95	540	340	730	550	40	3.8	180	3.9	8.5	0.0015 J	16	230	420	1200
Volatile Organic Compounds - Tentatively Identified Compounds																			
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																			
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	0.77 U	0.1 U	0.11 U	0.93 U	0.87	3.6	1.7 U	0.71	0.11	0.53 U	0.098 U	0.086 U	0.0013 U	0.081 U	0.8 U	1.4 U	4.1 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																			
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																			
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	7.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			BH4-19B	BH4-19C	BH4-19C	BH4-19C	BH6-19	BH6-19	BH7-19	BH7-19	BH7-19	BH8-19	BH8-19	BH11-19	BH11-19	EA9-19	EA8-19	EA23-19	EA10-19	EA5-19
Sample Date:			8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	8/15/2019	10/18/2019	10/18/2019	10/22/2019	10/21/2019	10/10/2019
Sample Depth:			(7.5-) ft BGS	(8-) ft BGS	(8-) ft BGS	(8.5-) ft BGS	(3-4) ft BGS	(7-8) ft BGS	(7-8) ft BGS	(7-8) ft BGS	(10-11) ft BGS	(3-4) ft BGS	(5-6) ft BGS	(3-4) ft BGS	(5-6) ft BGS	(2.5-) ft BGS	(2.5-) ft BGS	(2.5-) ft BGS	(2.5-) ft BGS	(2.5-) ft BGS
Source:			Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab
			(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)		(Duplicate)	
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	0.093 U	0.96	0.46	3.3	0.001 U	0.019	1.6 U	0.38 U	0.096 U	0.00083 U	0.00082 U	0.00091 U	0.00085 U	0.093 U	0.089 U	0.088 U	0.084 U	0.1 U
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	0.093 U	0.056 J	0.033 J	0.93 U	0.0038	0.00083 J	1.6 U	0.38 U	0.05 J	0.00083 U	0.0013	0.00091 U	0.00055 J	0.093 U	0.089 U	0.088 U	0.084 U	0.1 U
Ethylbenzene	mg/kg	5.8	0.093 U	10	5.6	190	0.00031 J	0.014	300 J	92 J	27	0.00045 J	0.00082 U	0.00029 J	0.00023 J	0.093 U	0.089 U	0.028 J	0.084 U	0.1 U
N-Heptane	mg/kg	2.2	0.47 U	0.48 J	0.32 J	7.1	0.001 U	0.0017	10 J	2.9 J	0.48 U	0.00067 J	0.001	0.00091 U	0.00085 U	0.47 U	0.44 U	0.44 U	0.42 U	0.52 U
Toluene	mg/kg	490	0.093 U	0.55	0.39	16	0.001 U	0.00086 U	140	55	19	0.00083 U	0.00082 U	0.00091 U	0.00085 U	0.093 U	0.089 U	0.088 U	0.084 U	0.1 U
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	0.19 U	21	11	360	0.0026	0.059	650 J	200 J	56	0.00019 J	0.0016 U	0.00058 J	0.00046 J	0.19 U	0.18 U	0.047 J	0.17 U	0.21 U
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	0.093 U	0.1 U	0.081 U	0.93 U	0.0015 UJ	0.015	1.6 U	0.38 U	0.096 U	0.0012 U	0.0012 U	0.0014 U	0.0013 U	0.093 U	0.089 U	0.088 U	0.084 U	0.1 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																				
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	7.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	400	-	-	-	-	-	9.5	10.3	8.7	-	-	-	5.4	-	-	-	-	-	-
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-2 EA5-19 10/10/2019 (2.5-) ft BGS Lab (Duplicate)	OU-2 EA2-19 10/6/2019 (2.5-) ft BGS Lab	OU-2 EA1-19 10/6/2019 (2.5-) ft BGS Lab	OU-2 EA24-19 10/11/2019 (2.5-) ft BGS Lab	OU-2 EA24-19 10/15/2019 (2.5-) ft BGS Lab	OU-2 PH-49D 5/3/2005 (4-6) ft BGS Lab	OU-2 PH-49S 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-205 5/5/2005 (2-2.5) ft BGS Lab	OU-2 PH-205 5/5/2005 (3-4) ft BGS Lab	OU-2 PH-205 5/5/2005 (3-4) ft BGS Lab (Duplicate)	OU-2 PH-206 5/5/2005 (2-2.5) ft BGS Lab	OU-2 PH-206 5/5/2005 (3-4) ft BGS Lab	OU-2 PH-207 5/5/2005 (0-2) ft BGS Lab	OU-2 PH-208 5/5/2005 (2-2.5) ft BGS Lab	OU-2 PH-208 5/5/2005 (3-4) ft BGS Lab	OU-2 PH-208 5/5/2005 (3-4) ft BGS Lab (Duplicate)	OU-2 PH-210 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-210 5/3/2005 (2-4) ft BGS Lab
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	0.1 U	0.088 U	0.092 U	0.094 U	0.087 U	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	0.1 U	0.088 U	0.092 U	0.094 U	0.087 U	-	-	0.25 U	0.92 U	0.41 U	0.1 U	0.1 U	0.098 U	0.096 U	0.1 U	0.094 U	-	-
Ethylbenzene	mg/kg	5.8	0.1 U	0.73	0.16	0.094 U	0.087 U	-	-	9.5	36 J	12 J	0.59	3.6	0.39 U	3.5	4.9	3.8	-	-
N-Heptane	mg/kg	2.2	0.52 U	0.44 U	0.46 U	0.47 U	0.43 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	0.1 U	0.088 U	0.092 U	0.094 U	0.087 U	-	-	0.28 J	3.7 J	3.5	0.5 U	0.52 U	0.49 U	0.05 J	3.9	2.5	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	0.25 U	0.92 U	0.41 U	0.1 U	0.1 U	0.098 U	0.096 U	0.1 U	0.094 U	-	-
Xylenes (total)	mg/kg	58	0.21 U	0.062 J	0.074 J	0.19 U	0.17 U	-	-	76	150	78	10	8.6	0.49 U	12	33	25	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.3	N/A	N/A	16.43	N/A	N/A	9.65	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	0.041 U	0.73	-	-	-	-	-	-	-	-	-	0.5	0.041 U
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	0.041 U	0.72	-	-	-	-	-	-	-	-	-	0.45	0.041 U
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	0.041 U	0.66	-	-	-	-	-	-	-	-	-	0.39	0.041 U
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	0.041 U	0.1	-	-	-	-	-	-	-	-	-	0.082	0.041 U
Naphthalene	mg/kg	3.8	0.1 U	0.088 U	0.092 U	0.094 U	0.087 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	0.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.33	N/A
Metals																				
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	7.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-2 PH-211 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-211 5/3/2005 (2-4) ft BGS Lab	OU-2 PH-211 5/3/2005 (4-6) ft BGS Lab	OU-2 PH-212 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-212 5/3/2005 (2-4) ft BGS Lab	OU-2 PH-213 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-213 5/3/2005 (2-4) ft BGS Lab	OU-2 PH-214 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-214 5/3/2005 (2-4) ft BGS Lab	OU-2 PH-216 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-216 5/3/2005 (2-4) ft BGS Lab	OU-2 PH-217 5/3/2005 (0-2) ft BGS Lab	OU-2 PH-217 5/3/2005 (2-4) ft BGS Lab	OU-2 PH-217 5/3/2005 (4-6) ft BGS Lab	OU-2 PH-HA-4 5/5/2005 (3-4) ft BGS Lab	OU-2 EA11-19 10/21/2019 (2.5-) ft BGS Lab	OU-2 SB-4-05 5/3/2005 (0-2) ft BGS Lab	OU-2 SB-5-05 5/3/2005 (0-2) ft BGS Lab	OU-2 SB-5-05 5/3/2005 (0-2) ft BGS Lab (Duplicate)
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																			
Volatile Organic Compounds																					
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.082 U	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U	0.082 U	0.12 U	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	410	0.11	0.47 U	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41 U	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5 J	0.065 J	0.58 U	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U	-	0.12 U	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2500	0.28	0.58 U	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																					
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	106	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																					
Benzo(a)anthracene	mg/kg	1.1	3.6	0.11	0.21	0.12	0.013 J	0.38	0.022 J	0.93	0.041 U	0.028 J	0.04 U	0.12	0.097	0.039 U	-	-	0.076	0.036 J	0.021 J
Benzo(a)pyrene	mg/kg	0.24	3.2	0.091	0.17	0.12	0.015 J	0.34	0.019 J	1.2	0.041 U	0.025 J	0.04 U	0.15	0.1	0.039 U	-	-	0.078	0.035 J	0.021 J
Benzo(b)fluoranthene	mg/kg	1.11	2.9	0.073	0.13	0.096	0.012 J	0.27	0.014 J	1	0.041 U	0.02 J	0.04 U	0.16	0.091	0.039 U	-	-	0.067	0.028 J	0.026 J
Dibenz(a,h)anthracene	mg/kg	0.17	0.41 J	0.037 U	0.035 J	0.013 J	0.038 U	0.052	0.038 U	0.2	0.041 U	0.036 U	0.04 UJ	0.033 J	0.016 J	0.039 U	-	-	0.021 J	0.038 U	0.037 U
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.082 U	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																					
Total SVOC TICs	mg/kg	-	12.8	0.76	1.17	0.44	N/A	N/A	1.4	11.71	N/A	1.11	10.7	0.77	0.67	0.92	N/A	N/A	N/A	N/A	N/A
Metals																					
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9610	11100	11200
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8 UJ	2.8 UJ	2.8 UJ
Arsenic	mg/kg	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	3.2	3.1
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	82.8	82.4
Cadmium	mg/kg	7.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5 U	1.4 U	1.4 U
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.9 J	24.5 J	21.0 J
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	11.0	12.8
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5 J	13.0 J	15.9 J
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7990 J	21900 J	25700 J
Lead	mg/kg	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.7 J	11.7 J	11.8 J
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61.6 J	318 J	337 J
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	0.03	0.02
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	10.0	12.1
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5 U	2.5 U	2.5 U
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7 J	40.9 J	34.2 J
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.9 J	24.8 J	33.3 J

Notes:
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DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-2 SB-6-05 5/3/2005 (0-2) ft BGS Lab	OU-2 SB-8-05 5/3/2005 (0-2) ft BGS Lab	OU-2 SB-12-05 5/2/2005 (0-2) ft BGS Lab	OU-2 SB-14-05 5/2/2005 (0-2) ft BGS Lab	OU-2 SB-18-05 5/3/2005 (0-2) ft BGS Lab	OU-2 EA7-19 10/10/2019 (2.5-) ft BGS Lab	OU-2 EA3-19 10/6/2019 (2.5-) ft BGS Lab	OU-2 EA14-19 10/22/2019 (2.5-) ft BGS Lab	OU-2 EA16-19 10/9/2019 (2.5-) ft BGS Lab	OU-2 EA15-19 10/8/2019 (2.5-) ft BGS Lab	OU-2 EA12-19 10/22/2019 (2.5-) ft BGS Lab	OU-2 EA20-19 10/22/2019 (2.5-) ft BGS Lab	OU-2 EA10-19 10/10/2019 (2.5-) ft BGS Lab	OU-2 EA19-19 10/9/2019 (2.5-) ft BGS Lab	OU-2 EA4-19 10/8/2019 (4-) ft BGS Lab	OU-2 EA13-19 10/22/2019 (2.5-) ft BGS Lab	OU-2 EA19-19 10/9/2019 (2.5-) ft BGS Lab	OU-3 BH1-11 9/13/2011 (0-2) ft BGS Screen
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	0.086 U	0.087 U	0.087 U	0.086 U	0.081 U	0.084 U	0.087 U	0.042 J	0.097	0.098 U	0.084 U	0.088 U	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	0.11 U	0.11 U	-	0.086 U	0.058 J	0.087 U	0.086 U	0.081 U	0.084 U	0.087 U	0.1 U	0.34	0.098 U	0.084 U	0.088 U	-
Ethylbenzene	mg/kg	5.8	-	-	14	0.44 U	-	0.086 U	2.9	0.087 U	0.043 J	0.064 J	0.084 U	0.087 U	0.099 J	0.17	6.8	0.084 U	0.088 U	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	0.43 U	0.43 U	0.43 U	0.43 U	0.41 U	0.42 U	0.43 U	0.5 U	1	0.49 U	0.42 U	0.44 U	-
Toluene	mg/kg	490	-	-	0.57 U	0.55 U	-	0.086 U	0.087 U	0.087 U	0.086 U	0.081 U	0.084 U	0.087 U	0.1 U	0.085 J	0.098 U	0.084 U	0.088 U	-
Trichloroethene	mg/kg	0.41	-	-	0.11 U	0.11 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	1.1	0.55 U	-	0.17 U	1.5	0.17 U	0.056 J	0.12 J	0.17 U	0.17 U	0.3	0.39	3.4	0.17 U	0.18 U	-
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	2.4	0.04 U	1.3	0.091	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	2	0.04 U	1.4	0.089	0.39	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	2	0.04 U	1.1	0.07	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	0.23	0.04 U	0.2	0.019 J	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	0.086 U	0.087 U	0.087 U	0.086 U	0.081 U	0.084 U	0.087 U	0.1	0.093 U	0.098 U	0.084 U	0.088 U	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																				
Aluminum	mg/kg	51200	-	-	10300	12000	9540	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	2.8 UJ	2.8 UJ	2.8 UJ	-	-	-	-	-	-	-	-	-	-	-	-	19.8 U
Arsenic	mg/kg	11	-	-	2.4	2.6	3.0	-	-	-	-	-	-	-	-	-	-	-	-	1.46
Barium	mg/kg	1500	-	-	69.5	84.1	109	-	-	-	-	-	-	-	-	-	-	-	-	929
Cadmium	mg/kg	7.1	-	-	1.4 U	1.4 U	1.4 U	-	-	-	-	-	-	-	-	-	-	-	-	1.7 U
Chromium	mg/kg	214	-	-	15.2 J	13.1 J	18.3 J	-	-	-	-	-	-	-	-	-	-	-	-	14.3
Cobalt	mg/kg	34	-	-	5.0	5.2	5.7	-	-	-	-	-	-	-	-	-	-	-	-	34.2
Copper	mg/kg	310	-	-	5.4 J	5.7 J	19.8 J	-	-	-	-	-	-	-	-	-	-	-	-	11.5
Iron	mg/kg	74767	-	-	12600 J	14700 J	14400 J	-	-	-	-	-	-	-	-	-	-	-	-	19591
Lead	mg/kg	400	-	-	10.9 J	6.8 J	51.8 J	-	-	-	-	-	-	-	-	-	-	-	-	11.9
Manganese	mg/kg	2100	-	-	132 J	188 J	212 J	-	-	-	-	-	-	-	-	-	-	-	-	175
Mercury	mg/kg	1.1	-	-	0.028 U	0.027 U	0.06	-	-	-	-	-	-	-	-	-	-	-	-	0.18 U
Nickel	mg/kg	150	-	-	6.2	6.9	11.1	-	-	-	-	-	-	-	-	-	-	-	-	26.7
Thallium	mg/kg	0.078	-	-	2.5 U	2.5 U	2.5 U	-	-	-	-	-	-	-	-	-	-	-	-	0.010 U
Vanadium	mg/kg	134	-	-	21.9 J	24.6 J	32.9 J	-	-	-	-	-	-	-	-	-	-	-	-	56 U
Zinc	mg/kg	2300	-	-	21.2 J	17.6 J	109 J	-	-	-	-	-	-	-	-	-	-	-	-	17.6

Notes:
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OU - Operable Unit
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Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3
Sample Location:			BH1-11	BH2-11	BH2-11	BH3-11	BH3-11	BH4/MW-23-11	BH4/MW-23-11	BH5-11	BH5-11	BH5-11	BH6-11	BH6-11	BH6-11	BH7-11	BH7-11	BH7-11
Sample Date:			9/13/2011	9/13/2011	9/13/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011	10/10/2011
Sample Depth:			(11-13) ft BGS	(0-2) ft BGS	(13-15) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(13-15) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS
Source:			Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Lab	Screen	Lab	Screen	Screen	Lab	Screen	Lab (Duplicate)
Parameters			Units	DNREC-SIRS Screening Levels (November 2021)														
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	0.092 U	-	-	0.1 U	-	0.23 U
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	-	0.092 U	-	-	0.1 U	-	0.23 U
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	0.092 U	-	-	0.1 U	-	0.23 U
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	0.092 U	-	-	0.1 U	-	0.23 U
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	-	0.28 U	-	-	0.31 U	-	0.69 U
Volatile Organic Compounds - Tentatively Identified Compounds																		
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																		
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	0.038 U	-	0.036 U	-	-	0.036 U	-	0.036 U
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	0.012 J	-	0.036 U	-	-	0.036 U	-	0.036 U
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	0.012 J	-	0.036 U	-	-	0.036 U	-	0.036 U
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	0.038 U	-	0.036 U	-	-	0.036 U	-	0.036 U
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																		
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.8	N/A	N/A	1.2	N/A	1.4
Metals																		
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	19900	-	-	-	-	12700	-	12000
Antimony	mg/kg	3.1	1.8 U	1.3 U	19.8 U	2.7 U	3.5 U	1.8 U	1.2 U	19.8 U	2.2 U	1.8 U	-	1.9 U	1.6 U	2.1 U	19.8 U	2.1 U
Arsenic	mg/kg	11	2.63	1.17	1.73	6.4	2.71	2.12	2.08	2.48	3.5	2.05	-	1.02	1.96	1.3	3.18	1.4
Barium	mg/kg	1500	373	716	722	727	443	769	581	961	107	532	-	579.5	832.1	91.0	680	87.8
Cadmium	mg/kg	7.1	1.7 U	0.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.5 U	1.1 U	1.7 U	-	1.7 U	0.60 U	1.0 U	1.7 U	1.1 U
Chromium	mg/kg	214	44.6	10.5	23.7	55.2	66.6	44.3	61.1	52.2	14.6	76.7	-	52.6	52	23.8	75.4	23.3
Cobalt	mg/kg	34	33.7	313 U	16.2	34	8.6 U	53.6	313 U	56.0	5.7 J	36.5	-	313 U	313 U	6.7 J	313 U	6.9 J
Copper	mg/kg	310	19.4	9.3	13.2	23.1	16.1	9.9	23.7	14.6	9.9	14.3	-	17.9	6.5 U	21.8	30.7	13.2
Iron	mg/kg	74767	21956	8804	14322	27664	17470	27262	17713	30584	17500	22985	-	30957	23526	18800	33654	18500
Lead	mg/kg	400	12.6	8.9	13.8	14.7	13.1	9.2	13.7	15.4	23.4	10.5	-	13.1	10.2	7.2	26.9	6.8
Manganese	mg/kg	2100	245	277.9	244.3	345.8	151.9	272.9	217.8	343.2	145	231	-	2513	1819.7	145	2808.5	137
Mercury	mg/kg	1.1	6.5 U	6.5 U	6.5 U	7.63	6.5 U	6.5 U	6.5 U	6.5 U	0.037 U	6.5 U	-	6.5 U	6.5 U	0.036 U	6.5 U	0.033 U
Nickel	mg/kg	150	31.7	18.7	20.5	34.1	27.1	32.1	29	37.1	10.1	29.3	-	35.7	26.3	11.8	39.2	12.1
Thallium	mg/kg	0.078	4.4 U	0.020 U	0.051	0.016 U	0.062	0.048 U	0.030 U	0.005 U	2.2 U	4.4 U	-	4.4 U	4.4 U	2.1 U	4.4 U	2.1 U
Vanadium	mg/kg	134	57.5	56 U	56 U	69.7	92.4	32.7	27.7	56 U	31.1	47.8	-	56 U	56 U	35.2	56 U	33.2
Zinc	mg/kg	2300	44.4	10.2	18.5	52.4	42.1	44.7	45.1	49.9	25.9	45.7	-	77.4	37.6	31.4	61.8	33.0

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3
Sample Location:			BH7-11	BH8-11	BH8-11	BH8-11	BH10-11	BH10-11	BH11-11	BH12-11	BH12-11	BH12-11	BH12-11	BH36-11	BH36-11	BH36-11	BH37-11	BH37-11
Sample Date:			10/10/2011	10/10/2011	10/10/2011	10/10/2011	9/15/2011	9/15/2011	9/15/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/13/2011	9/13/2011
Sample Depth:			(8-10) ft BGS	(0-2) ft BGS	(12-14) ft BGS	(12-14) ft BGS	(4-5) ft BGS	(4-5) ft BGS	(4-5) ft BGS	(0-2) ft BGS	(16-18) ft BGS	(16-18) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(11-13) ft BGS	(0-2) ft BGS
Source:			Screen	Screen	Lab	Screen	Lab	Screen	Screen	Screen	Lab	Screen	Lab	Screen	Screen	Screen	Screen	Screen
Parameters			Units	DNREC-SIRS Screening Levels (November 2021)														
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	0.095 U	-	0.096 U	-	-	-	0.1 U	-	0.091 U	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	0.095 U	-	0.096 U	-	-	-	0.1 U	-	0.091 U	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	0.095 U	-	0.096 U	-	-	-	0.1 U	-	0.091 U	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	0.095 U	-	0.096 U	-	-	-	0.1 U	-	0.091 U	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	0.29 U	-	0.29 U	-	-	-	0.3 U	-	0.27 U	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																		
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																		
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	0.039 U	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	0.039 U	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	0.039 U	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	0.039 U	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																		
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																		
Aluminum	mg/kg	51200	-	-	19700	-	33100	-	-	-	8810	-	15400	-	-	-	-	-
Antimony	mg/kg	3.1	19.8 U	19.8 U	2.2 U	1.1 U	2.2 U	2.5 U	2.5 U	19.8 U	2.3 U	19.8 U	2.2 U	0.5 U	19.8 U	1.7 U	1.9 U	1.6 U
Arsenic	mg/kg	11	1.86	8.21	2.0	1.56	1.9	1.76	1.29	1.8	2.6	1.9	2.3	2.48	1.5	1.81	2.94	2.7
Barium	mg/kg	1500	720.6	713.2	116	807.4	137	938	1006	529.6	16.9 J	1149.2	30.3 J	955.6	639.8	847	518	523
Cadmium	mg/kg	7.1	0.56 U	1.29 U	1.1 U	2.41	1.1 U	1.7 U	1.3 U	1.7 U	1.2 U	1.7 U	1.1 U	0.81 U	0.73 U	0.4 U	1.7 U	1.7 U
Chromium	mg/kg	214	53.3	74.8	36.8	64.1	136	35.4	8.2	54.1	11.6	40.7	12.9	39.9	43.5	37.4	68.3	56.5
Cobalt	mg/kg	34	313 U	313 U	7.9 J	313 U	4.9 J	17.3	313 U	313 U	2.6 J	313 U	5.9 J	313 U	313 U	44.9	43.8	25.9
Copper	mg/kg	310	14.7	24.3	17.6	15.4	21.1	11.7	10.0	10.8	5.2 J	0.4 U	4.7 J	3.2 U	6.3 U	15.9	12.3	13.9
Iron	mg/kg	74767	27392	31636	22900	24855	13100	17346	4798.7	23507	25300	20342	13800	26829	19129	20523	21717	19355
Lead	mg/kg	400	12.8	81.5	14.0	20.5	16.6	13.1	11.5	10.3	6.1	17.8	7.1	16.5	18.7	12	12.5	22.5
Manganese	mg/kg	2100	2271.1	2566.8	94.6	1920.1	68.5	153.9	109.1	1898.3	19.2	1572.7	202	2245.7	1661.1	232.7	246.1	233.8
Mercury	mg/kg	1.1	6.5 U	6.5 U	0.037 U	6.5 U	0.037 U	6.5 U	0.15 U	6.5 U	0.037 U	6.5 U	0.036 U	6.5 U	6.5 U	0.19 U	6.5 U	6.5 U
Nickel	mg/kg	150	37.3	39.7	14.4	36.4	31.8	28.9	17.6	44.5	3.1 J	41.3	6.5 J	34.4	25.6	26.7	28.5	28.2
Thallium	mg/kg	0.078	4.4 U	4.4 U	2.2 U	4.4 U	2.2 U	0.068	0.034 U	4.4 U	2.3 U	4.4 U	2.2 U	4.4 U	4.4 U	0.018 U	4.4 U	4.4 U
Vanadium	mg/kg	134	56 U	56 U	59.3	56 U	70.7	56 U	56 U	56 U	29.8	56 U	19.4	56 U	56 U	1.9 U	46.7	40
Zinc	mg/kg	2300	48.4	91.4	39.8	55	33.7	27.3	12.7	41.2	6.8 J	36.4	13.7	37.8	40.2	34.6	46.7	36.9

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-3 BH48-11 9/21/2011 (0-2) ft BGS Screen	OU-3 BH48-11 9/21/2011 (0-2) ft BGS Screen (Duplicate)	OU-3 BH48-11 9/21/2011 (7-9) ft BGS Screen	OU-3 BH49-11 9/21/2011 (0-2) ft BGS Screen	OU-3 BH49-11 9/21/2011 (7-9) ft BGS Screen	OU-3 BH50-11 9/22/2011 (0-2) ft BGS Lab	OU-3 BH50-11 9/22/2011 (0-2) ft BGS Screen	OU-3 BH50-11 9/22/2011 (7-9) ft BGS Screen	OU-3 BH51-11 9/22/2011 (0-2) ft BGS Screen	OU-3 BH51-11 9/22/2011 (9-11) ft BGS Lab	OU-3 BH51-11 9/22/2011 (9-11) ft BGS Screen	OU-3 BH52-11 9/22/2011 (0-2) ft BGS Lab	OU-3 BH52-11 9/22/2011 (0-2) ft BGS Screen	OU-3 BH52-11 9/22/2011 (13-15) ft BGS Screen	OU-3 BH57/MW24-11 9/20/2011 (0-2) ft BGS Screen	OU-3 BH57/MW24-11 9/20/2011 (7-9) ft BGS Screen	OU-3 BH58-11 9/20/2011 (0-2) ft BGS Screen	OU-3 BH58-11 9/20/2011 (5-7) ft BGS Lab
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	0.11 U	-	-	-	0.092 U	-	-	-	-	-	-	-	0.089 U
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	0.11 U	-	-	-	0.092 U	-	-	-	-	-	-	-	0.023 J
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	0.11 U	-	-	-	0.092 U	-	-	-	-	-	-	-	0.089 U
Trichloroethene	mg/kg	0.41	-	-	-	-	-	0.11 U	-	-	-	0.092 U	-	-	-	-	-	-	-	0.089 U
Xylenes (total)	mg/kg	58	-	-	-	-	-	0.32 U	-	-	-	0.27 U	-	-	-	-	-	-	-	0.1 J
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	0.036 U	-	-	-	0.039 U	-	-	-	-	-	-	-	0.048
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	0.036 U	-	-	-	0.039 U	-	-	-	-	-	-	-	0.025 J
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	0.036 U	-	-	-	0.039 U	-	-	-	-	-	-	-	0.043
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	0.036 U	-	-	-	0.039 U	-	-	-	-	-	-	-	0.039 U
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.76
Metals																				
Aluminum	mg/kg	51200	-	-	-	-	-	5970	-	-	-	7260	-	6520	-	-	-	-	-	10100
Antimony	mg/kg	3.1	2.5 U	NS	19.8 U	2.2 U	19.8 U	2.0 U	19.8 U	19.8 U	2.6 U	2.3 U	0.7 U	12.8	9.1	19.8 U	5.3 U	1.2 U	2.6 U	2.3 U
Arsenic	mg/kg	11	8.29	NS	2.31	2.23	2.28	0.99 U	0.81	0.91	2.17	2.9	2.09	4.3	17.04	2.07	2.23	1.53	2.92	2.9
Barium	mg/kg	1500	1252	NS	497	533	408	16.8 J	730	358	516	45.1 J	446	235	603	427	697	469	457	233
Cadmium	mg/kg	7.1	1.7 U	NS	1.8 U	1.0 U	0.6 U	0.99 U	1.7 U	0.3 U	0.1 U	1.1 U	0.0 U	2.6	2.5 U	1.7 U	1.7 U	1.5 U	0.8 U	0.43 J
Chromium	mg/kg	214	51.9	NS	65.3	62.6	97.2	4.9	17.5	51.3	58.4	20.4	46.1	26.9	56.1	54.8	197.3	45.4	37.5	24.7
Cobalt	mg/kg	34	71.9	NS	45.6	35.8	62.3	1.4 J	1.2 U	0.3 U	32.8	6.1 J	33.1	4.4 J	34.9	19.9	48.4	23.8	30	3.2 J
Copper	mg/kg	310	16.4	NS	18.7	23.6	20	5.0 U	7.2	5.0 U	12.5	8.0	19.1	17.7	25.9	13	2.9 U	12.8	8.9	7.6
Iron	mg/kg	74767	32224	NS	27344	27548	28551	3640	8752	7036	24499	15600	21946	12700	22395	13760	20765	11696	14801	8860
Lead	mg/kg	400	79.8	NS	16.5	14	18	4.2	9.2	9.1	15.6	7.3	11.6	467	152.8	10.8	15.1	12.4	28.3	124
Manganese	mg/kg	2100	451.6	NS	414.9	269.5	314.7	165	207.5	87.1	260.9	145	197.8	140	240.9	159.2	474	139.6	296.6	109
Mercury	mg/kg	1.1	6.5 U	NS	6.5 U	6.5 U	6.5 U	0.032 U	6.5 U	6.5 U	6.5 U	0.038 U	6.5 U	0.071	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	0.039
Nickel	mg/kg	150	42	NS	31.9	36.4	40.2	2.3 J	16.1	13.4	30.2	9.6	30.9	9.9	29.8	26.2	167.3	22.7	23.6	7.1 J
Thallium	mg/kg	0.078	0.014 U	NS	0.0009 U	4.4 U	0.047 U	2.0 U	4.4 U	0.022 U	0.020 U	2.3 U	0.010 U	2.3 U	4.4 U	0.012 U	4.4 U	4.4 U	0.015 U	2.3 U
Vanadium	mg/kg	134	56 U	NS	51.8	56.4	83.8	7.3 J	56 U	4.1 U	35.8	29.4	45.8	24.9	15.2	57.5	3.2 U	15.5	26.2	20.1
Zinc	mg/kg	2300	87.7	NS	48.4	42.1	42.9	7.2	9.7	15.9	55.5	23.9	37.2	110	85.2	43.6	43.8	34.9	89	174

Notes:
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UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3
Sample Location:			BH58-11	BH59-11	BH59-11	BH60-11	BH60-11	BH60-11	BH61-11	BH61-11	BH61-11	BH62-11	BH62-11	BH62-11	BH62-11	BH62-11	BH63-11	BH63-11
Sample Date:			9/20/2011	9/19/2011	9/19/2011	9/20/2011	9/20/2011	9/20/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011
Sample Depth:			(5-7) ft BGS	(0-2) ft BGS	(16-18) ft BGS	(0-2) ft BGS	(13-15) ft BGS	(0-2) ft BGS	(13-15) ft BGS	(13-15) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(15-17) ft BGS	(0-2) ft BGS	(14-16) ft BGS	(0-2) ft BGS
Source:			Screen	Screen	Screen	Screen	Screen	Screen	Lab	Screen	Lab	Screen	(Duplicate)	(Duplicate)	Screen	Screen	Screen	Screen
Parameters			DNREC-SIRS Screening Levels (November 2021)															
Units																		
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	0.091 U	-	0.12 U	-	0.11 U	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	0.091 U	-	0.12 U	-	0.11 U	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	0.091 U	-	0.12 U	-	0.11 U	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	0.091 U	-	0.12 U	-	0.11 U	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	0.27 U	-	0.35 U	-	0.33 U	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																		
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																		
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	0.037 U	-	0.04 U	-	0.041 U	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	0.037 U	-	0.04 U	-	0.041 U	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	0.037 U	-	0.04 U	-	0.041 U	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	0.037 U	-	0.04 U	-	0.041 U	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																		
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																		
Aluminum	mg/kg	51200	-	-	-	-	-	-	15600	-	8270	-	19000	-	-	-	-	-
Antimony	mg/kg	3.1	19.8	0.5 U	1.8 U	19.8 U	19.8 U	3.3	2.1 U	0.16 U	2.3 U	19.8 U	2.3 U	NS	19.8 U	19.8 U	19.8 U	19.8 U
Arsenic	mg/kg	11	34.63	2.93	0.83	1.63	2.27	3.1	1.1 U	1.3	1.1	1.8	1.8	NS	1.33	3.66	1.53	2.18
Barium	mg/kg	1500	730	534.9	837.1	515	522	555.8	42.3 J	522.7	42.9 J	527.8	75.3	NS	706.1	622.4	806.4	533.9
Cadmium	mg/kg	7.1	0.8 U	1.7 U	1.7 U	1.7 U	0.2 U	0.26 U	1.1 U	1.7 U	1.1 U	1.7 U	1.2 U	NS	0.96 U	1.7 U	1.38	0.86 U
Chromium	mg/kg	214	66.1	61.3	31.5	47.6	98.2	36.8	15.8	35.8	7.0 J	29.3	29.0 J	NS	51.9	39.1	42.7	60.2
Cobalt	mg/kg	34	31.4	313 U	313 U	30.7	49.4	313 U	10.6 U	313 U	2.9 J	313 U	2.3 J	NS	313 U	313 U	313 U	313 U
Copper	mg/kg	310	19.4	9.1	5.6 U	20.7	51.1	11.1	5.2 J	13.2	8.4	5.5 U	4.1 J	NS	17.1	17.2	15.6	17
Iron	mg/kg	74767	20109	29749	10854	14112	25539	15523	3660	6880	9610	11235	14500	NS	17511	17161	7625	25178
Lead	mg/kg	400	358.3	9.1	11.1	16.5	15.5	29.2	4.0	12.9	6.2	10	11.0	NS	9.6	20.4	10.6	10.2
Manganese	mg/kg	2100	270.1	2268.3	963.2	170.4	125	1334.8	18.4	569.7	239 J	987.7	44.1 J	NS	1436.4	1462.2	619.9	1985.6
Mercury	mg/kg	1.1	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	0.029 J	6.5 U	0.036 U	6.5 U	0.040 U	NS	6.5 U	6.5 U	6.5 U	6.5 U
Nickel	mg/kg	150	30.6	54.3	16.6	30.6	41.7	28	8.9	27.9	3.4 J	16.4	7.4 J	NS	34.3	27.6	21.2	41.4
Thallium	mg/kg	0.078	4.4 U	4.4 U	4.4 U	4.4 U	0.043 U	4.4 U	2.1 U	4.4 U	2.3 U	4.4 U	2.3 U	NS	4.4 U	4.4 U	4.4 U	4.4 U
Vanadium	mg/kg	134	2.9 U	56 U	56 U	37.2	135.4	56 U	21.9	64 U	13.0 J	56 U	40.0 J	NS	56 U	56 U	272	56 U
Zinc	mg/kg	2300	150.8	40.7	30.9	51.4	67	49.8	7.8	24.6	25.1	25.9	20.3	NS	43.3	50.8	21.5	44.1

Notes:
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J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			MW25-11	MW25-11	MW25-11	MW26-11	MW26-11	MW26-11	MW26-11	MW32-11	MW32-11	BH38-11	BH38-11	BH38-11	BH38-11	BH38-11	BH38-11	BH39-11	BH39-11	
Sample Date:			9/21/2011	9/21/2011	9/21/2011	9/21/2011	9/21/2011	9/21/2011	9/21/2011	9/20/2011	9/20/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	
Sample Depth:			(0-2) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(11-13) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(9-10) ft BGS	(9-10) ft BGS	(9-10) ft BGS	(9-10) ft BGS	(0-2) ft BGS	(4-5) ft BGS	
Source:			Screen	Screen	Screen	Lab	Screen	Lab	Screen	Screen	Screen	Lab	Screen	Lab	Screen	Lab	Screen	Screen	Lab	
				(Duplicate)												(Duplicate)	(Duplicate)			
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	mg/kg	1.2	-	-	-	0.02 U	-	0.085 U	-	-	-	0.086 U	-	0.033 J	-	0.085 U	-	-	0.078 U	
Ethylbenzene	mg/kg	5.8	-	-	-	0.02 U	-	0.085 U	-	-	-	0.086 U	-	0.088 U	-	0.085 U	-	-	0.4	
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	mg/kg	490	-	-	-	0.0046 J	-	0.085 U	-	-	-	0.086 U	-	0.088 U	-	0.085 U	-	-	0.078 U	
Trichloroethene	mg/kg	0.41	-	-	-	0.02 U	-	0.085 U	-	-	-	0.086 U	-	0.088 U	-	0.085 U	-	-	0.078 U	
Xylenes (total)	mg/kg	58	-	-	-	0.061 U	-	0.26 U	-	-	-	0.26 U	-	0.26 U	-	0.25 U	-	-	0.23 U	
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.42	N/A	8.01	N/A	N/A	68.7	
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	-	-	0.038 U	-	0.038 U	-	-	-	0.036 U	-	0.037 U	-	0.036 U	-	-	0.073 U	
Benzo(a)pyrene	mg/kg	0.24	-	-	-	0.43	-	0.038 U	-	-	-	0.036 U	-	0.037 U	-	0.036 U	-	-	0.073 U	
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	0.42	-	0.038 U	-	-	-	0.036 U	-	0.014 J	-	0.036 U	-	-	0.073 U	
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	0.055	-	0.038 U	-	-	-	0.036 U	-	0.037 U	-	0.036 U	-	-	0.073 U	
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	3.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.13	N/A	7.43	N/A	N/A	119.5	
Metals																				
Aluminum	mg/kg	51200	-	-	-	12300	-	5120	-	-	-	-	-	-	-	-	-	-	8330	
Antimony	mg/kg	3.1	1.1 U	NS	19.8 U	2.2 U	0.5 U	2.1 U	1.0 U	1.1 U	2.9 U	-	19.8 U	-	19.8 U	-	NS	2.4	2.0 U	
Arsenic	mg/kg	11	6.37	NS	1.89	2.6	4.11	1.1 U	1.41	3.88	2.86	-	0.62	-	2.03	-	NS	2.63	1.7 U	
Barium	mg/kg	1500	914	NS	459	63.6	586	23.4 J	514	637	555	-	1050.8	-	897.1	-	NS	787.2	33.8 J	
Cadmium	mg/kg	7.1	0.6 U	NS	1.7 U	1.1 U	1.0 U	1.1 U	1.7 U	1.7 U	0.2 U	-	0.38 U	-	1.23 U	-	NS	1.7 U	1.0 U	
Chromium	mg/kg	214	39.2	NS	44	12.6	37.7	8.5	38.2	99.1	116.6	-	22.5	-	50.7	-	NS	38.7	11.7 U	
Cobalt	mg/kg	34	15.6	NS	7.2 U	3.6 J	12.6 U	1.3 J	13.4	46.8	6.3 U	-	313 U	-	313 U	-	NS	313 U	3.7 J	
Copper	mg/kg	310	13.4	NS	8.1	4.6 J	20.6	3.3 J	13	27.4	20.9	-	13.6	-	8.8	-	NS	9.6	4.0 J	
Iron	mg/kg	74767	14189	NS	12447	11800	16311	2180	13839	22809	15463	-	15393	-	23540	-	NS	15218	10300	
Lead	mg/kg	400	62.8	NS	12.7	19.2	31.2	4.2	6.2	25.3	25.4	-	10.3	-	17.4	-	NS	23.8	10.9	
Manganese	mg/kg	2100	280.3	NS	128.3	74.0	188.6	20.0	222.9	481.4	102.8	-	1411.7	-	2014.6	-	NS	1379.1	124 J	
Mercury	mg/kg	1.1	6.5 U	NS	6.5 U	0.057	6.5 U	0.037 U	6.5 U	6.5 U	6.5 U	-	6.5 U	-	6.5 U	-	NS	6.5 U	0.034 U	
Nickel	mg/kg	150	19.1	NS	22.9	6.8 J	24.1	3.4 J	21.1	34.5	32.3	-	13.7	-	28.5	-	NS	18.7	6.0 J	
Thallium	mg/kg	0.078	4.4 U	NS	0.044 U	2.2 U	0.026 U	2.1 U	0.014 U	0.015 U	0.039 U	-	4.4 U	-	4.4 U	-	NS	4.4 U	2.0 U	
Vanadium	mg/kg	134	56 U	NS	35.6	17.4	13.1 U	12.4	44	44.1	209.7	-	56 U	-	56 U	-	NS	56 U	17.2	
Zinc	mg/kg	2300	98	NS	37.6	27.8	61.2	7.5	38	58.1	42	-	21.6	-	44.1	-	NS	195.7	56.4	

Notes:
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TICs - Tentatively Identified Compounds
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Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			BH39-11	BH40-11	BH40-11	BH40-11	BH40-11	BH41-11/MW30-11	BH41-11/MW30-11	BH42-11	BH42-11	BH43-11	BH43-11	BH44-11	BH44-11	BH45-11	BH45-11	BH46/MW-31-11
Sample Date:			9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/27/2011	9/27/2011	9/27/2011	9/27/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011	9/26/2011
Sample Depth:			(13-15) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(9-10) ft BGS	(9-10) ft BGS	(0-2) ft BGS	(15-17) ft BGS	(0-2) ft BGS	(15-17) ft BGS	(0-2) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(12-14) ft BGS	(0-2) ft BGS
Source:			Screen	Lab	Screen	Lab	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Parameters			Units	DNREC-SIRS Screening Levels (November 2021)														
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	0.088 U	-	0.082 U	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	0.088 U	-	0.082 U	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	0.088 U	-	0.082 U	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	0.088 U	-	0.082 U	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	0.26 U	-	0.25 U	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																		
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																		
Benzo(a)anthracene	mg/kg	1.1	-	0.035 U	-	0.036 U	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	0.035 U	-	0.036 U	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	0.035 U	-	0.036 U	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	0.035 U	-	0.036 U	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																		
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																		
Aluminum	mg/kg	51200	-	-	-	5280	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	19.8 U	-	1.97	2.2 U	19.8 U	19.8 U	0.3 U	19.8 U	0.7 U	0.4 U	1.6 U	19.8 U	19.8 U	19.8 U	2.4 U	2.0 U
Arsenic	mg/kg	11	1.61	-	0.58	1.3 U	1.28	1.42	2.71	2.82	2.03	1.29	1.86	2.69	2.67	2.04	2.37	3.36
Barium	mg/kg	1500	809.5	-	837.2	21.7 J	1030.5	527.6	552.6	456.9	787.7	491	552	493	552	550	558	1128.8
Cadmium	mg/kg	7.1	1.51 U	-	1.7 U	1.1 U	1.7 U	2.12	1.7 U	1.95	0.67 U	0.3 U	0.5 U	1.7 U	0.3 U	1.7 U	0.1 U	0.21 U
Chromium	mg/kg	214	97.5	-	16.9	6.2 U	21.2	46.5	70.6	56.9	64.5	52.5	59.4	49.5	89.2	75.4	59.8	56.3
Cobalt	mg/kg	34	313 U	-	313 U	3.2 J	313 U	313 U	313 U	313 U	313 U	41.2	62.8	68.3	64.9	36.7	64.4	313 U
Copper	mg/kg	310	17.5	-	8.6 U	2.9 J	3.4 U	14.2	13.9	13.7	20.6	9.2	21.6	22.3	32.1	20.6	23.5	15.8
Iron	mg/kg	74767	46372	-	10853	7930	14014	24307	28324	27381	20948	23197	22975	28775	31916	21595	34012	33616
Lead	mg/kg	400	16.6	-	9.7	3.7 U	10.6	15.1	8.8	10.4	11.8	9.4	11.4	12.2	22	19.9	20.2	16.9
Manganese	mg/kg	2100	3375	-	964.2	195 J	1282	1966.5	2259.2	2220.8	1737.1	229.4	231.2	240.4	132	433.5	101.6	2552.2
Mercury	mg/kg	1.1	6.5 U	-	6.5 U	0.036 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	0.14 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U
Nickel	mg/kg	150	49.2	-	9.2	3.7 J	5.4	25.3	41.6	29.7	26.1	29.1	42.3	41.8	49.6	36.4	46.3	33.8
Thallium	mg/kg	0.078	4.4 U	-	4.4 U	2.2 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	0.005 U	0.025 U	0.052 U	4.4 U	0.040 U	4.4 U
Vanadium	mg/kg	134	56 U	-	56 U	12.3	56 U	56 U	56 U	56 U	56 U	17.7	31.6	65.3	132	14.5	102.8	56 U
Zinc	mg/kg	2300	35.4	-	9.5	9.4	22	44.7	32	56.5	60.3	18.5	32	49.9	60.3	25.8	42.7	36.6

Notes:
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DNREC-RS - Department of Natural Resources and Environmental
Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-4 BH46/MW-31-11 9/26/2011 (13-15) ft BGS Screen	OU-4 DA-GP04 2/26/2013 (16-16.5) ft BGS Lab	OU-4 DA-GP06 2/26/2013 (14-15.4) ft BGS Lab	OU-4 DA-GP06 2/26/2013 (14-15.4) ft BGS Lab (Duplicate)	OU-4 DA-GP09 2/26/2013 (16-17) ft BGS Lab	OU-4 DA-GP13 2/27/2013 (16-17) ft BGS Lab	OU-4 DA-GP14 2/27/2013 (20-21) ft BGS Lab	OU-4 DA-GP15 2/27/2013 (14-14.5) ft BGS Lab	OU-4 GM-GP01 9/30/2015 (17-18) ft BGS Lab	OU-4 GM-GP02 9/30/2015 (23-25) ft BGS Lab	OU-4 GM-GP03 9/30/2015 (18-20) ft BGS Lab	OU-4 GM-GP03 9/30/2015 (18-20) ft BGS Lab (Duplicate)	OU-4 GM-GP04 9/30/2015 (15-17) ft BGS Lab	OU-4 GM-GP05 9/30/2015 (16-18) ft BGS Lab	OU-4 GM-GP08 9/30/2015 (18-20) ft BGS Lab
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)															
Volatile Organic Compounds																	
1,2,4-Trimethylbenzene	mg/kg	30	-	4.8	1.2	1	72	3.5	0.17 U	0.13 U	0.14 U	0.11 U	0.68	0.34	0.16 U	0.13 U	170
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	0.051 J	0.25	0.18	6	0.23	0.17 U	0.13 U	0.14 U	0.041 J	0.19	0.26	0.16 U	0.13 U	24
Ethylbenzene	mg/kg	5.8	-	0.46	0.27	0.2	30	1.2	0.17 U	0.13 U	0.14 U	0.051 J	0.26	0.16	0.16 U	0.13 U	59
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	0.042 J	0.17	0.13	76	2.9	0.066 J	0.13 U	0.14 U	0.084 J	0.5	0.5	0.16 U	0.13 U	140
Trichloroethene	mg/kg	0.41	-	0.097 U	0.1 U	0.095 U	0.22 U	0.14 U	0.034 J	0.13 U	0.14 U	0.11 U	0.13 U	0.13 U	0.16 U	0.13 U	1.2 U
Xylenes (total)	mg/kg	58	-	0.77	1.3	0.98	160	6.2	0.5 U	0.4 U	0.28 U	0.068 J	1.2	0.83	0.32 U	0.26 U	320
Volatile Organic Compounds - Tentatively Identified Compounds																	
Total VOC TICs	mg/kg	-	N/A	15.4	2.61	2.59	228	17.4	N/A	N/A	N/A	N/A	1.78	N/A	N/A	N/A	1261
Semi-volatile Organic Compounds																	
Benzo(a)anthracene	mg/kg	1.1	-	0.037 U	0.038 U	0.038 U	0.038 U	0.041 U	0.041 U	0.038 U	0.038 U	0.037 U	0.037 U	0.037 U	0.042 U	0.037 U	0.037 U
Benzo(a)pyrene	mg/kg	0.24	-	0.037 U	0.038 U	0.038 U	0.038 U	0.041 U	0.041 U	0.038 U	0.038 U	0.037 U	0.037 U	0.037 U	0.042 U	0.037 U	0.037 U
Benzo(b)fluoranthene	mg/kg	1.11	-	0.037 U	0.038 U	0.038 U	0.038 U	0.041 U	0.041 U	0.038 U	0.038 U	0.037 U	0.037 U	0.037 U	0.042 U	0.037 U	0.037 U
Dibenz(a,h)anthracene	mg/kg	0.17	-	0.037 U	0.038 U	0.038 U	0.038 U	0.041 U	0.041 U	0.038 U	0.038 U	0.037 U	0.037 U	0.037 U	0.042 U	0.037 U	0.037 U
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																	
Total SVOC TICs	mg/kg	-	N/A	3.42	0.83	1.43	N/A	0.48	0.54	0.43	5.41	14.48	16.5	20.36	16.21	13.22	16.71
Metals																	
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	1.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	1500	497.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	7.1	1.7 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	214	58.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	34	313 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	22.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	74767	21820	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	400	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	2100	1676.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	1.1	6.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	150	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	4.4 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	57.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
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Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-4 GM-GP09 9/30/2015 (16.5-18.5) ft BGS Lab	OU-4 GM-GP10 9/30/2015 (15.5-17.5) ft BGS Lab	OU-4 GM-GP11 10/1/2015 (15-16) ft BGS Lab	OU-4 GM-GP12 10/1/2015 (16.5-18.5) ft BGS Lab	OU-4 GM-GP13 10/1/2015 (14.5-16.5) ft BGS Lab	OU-4 GM-GP14 10/1/2015 (16.5-18.5) ft BGS Lab	OU-4 GM-GP15 10/1/2015 (13.5-15.5) ft BGS Lab	OU-4 GM-GP16 10/1/2015 (17-19) ft BGS Lab	OU-4 GM-GP17 10/1/2015 (15-17) ft BGS Lab	OU-4 GM-GP18 10/1/2015 (13-15) ft BGS Lab	OU-4 GM-GP19 10/1/2015 (17.5-19.5) ft BGS Lab	OU-4 GM-GP20 10/1/2015 (15-17) ft BGS Lab	OU-4 GM-GP21 10/5/2015 (16.5-18.5) ft BGS Lab
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)													
Volatile Organic Compounds															
1,2,4-Trimethylbenzene	mg/kg	30	0.13 U	0.15 U	0.14 U	30	38	0.12 J	31	0.15 U	0.13 U	250	41	0.13 U	95
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	0.13 U	0.15 U	0.14 U	1.4	1.3	0.26	0.24	0.15 U	0.13 U	5.7	3.9	0.13 U	3.8
Ethylbenzene	mg/kg	5.8	0.13 U	0.15 U	0.14 U	10	9.3	0.12 J	6.3	3.8	0.13 U	80	13	0.13 U	27
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	0.13 U	0.15 U	0.14 U	8	2.7	0.27	0.14	0.11 J	0.13 U	130	15	0.13 U	35
Trichloroethene	mg/kg	0.41	0.13 U	0.15 U	0.14 U	0.13 U	0.13 U	0.13 U	0.12 U	0.15 U	0.13 U	1.4 U	0.13 U	0.13 U	0.53 U
Xylenes (total)	mg/kg	58	0.25 U	0.29 U	0.28 U	42	48	0.39	16	0.47	0.26 U	440	68	0.27 U	170
Volatile Organic Compounds - Tentatively Identified Compounds															
Total VOC TICs	mg/kg	-	N/A	79.8	N/A	253	253	N/A	190.2	212	N/A	1022	252	N/A	549
Semi-volatile Organic Compounds															
Benzo(a)anthracene	mg/kg	1.1	0.036 U	0.04 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.038 U	0.036 U	0.037 U	0.038 U	0.038 U	0.038 U
Benzo(a)pyrene	mg/kg	0.24	0.036 U	0.04 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.038 U	0.036 U	0.037 U	0.038 U	0.038 U	0.038 U
Benzo(b)fluoranthene	mg/kg	1.11	0.036 U	0.04 U	0.015 J	0.036 U	0.035 U	0.037 U	0.036 U	0.038 U	0.036 U	0.037 U	0.038 U	0.038 U	0.038 U
Dibenz(a,h)anthracene	mg/kg	0.17	0.036 U	0.04 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.038 U	0.036 U	0.037 U	0.038 U	0.038 U	0.038 U
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds															
Total SVOC TICs	mg/kg	-	9.39	18.24	12.97	5.49	14.98	9.07	13.41	94.5	5.7	18.69	4.5	4.16	52.68
Metals															
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	7.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	400	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
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DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
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Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-4 GM-GP26 7/8/2016 (17-18.5) ft BGS Lab	OU-4 GM-GP27 7/8/2016 (17-18) ft BGS Lab	OU-4 GM-GP28 7/8/2016 (16-17) ft BGS Lab	OU-4 GM-GP28 7/8/2016 (16-17) ft BGS Lab (Duplicate)	OU-4 GM-GP29 7/8/2016 (12-13) ft BGS Lab	OU-4 GM-GP30 7/8/2016 (13-14.5) ft BGS Lab	OU-4 GM-GP31 7/8/2016 (16-17) ft BGS Lab	OU-4 GM-GP32 7/8/2016 (15.5-18) ft BGS Lab	OU-4 GM-GP33 7/8/2016 (18.5-19.5) ft BGS Lab	OU-4 GM-GP34 7/8/2016 (17-17.5) ft BGS Lab	OU-4 GM-GP34 7/8/2016 (20-23) ft BGS Lab	OU-5 BH13-11 9/22/2011 (0-2) ft BGS Screen	OU-5 BH13-11 9/22/2011 (8-10) ft BGS Screen	OU-5 BH14-11 9/26/2011 (0-2) ft BGS Lab	OU-5 BH14-11 9/26/2011 (0-2) ft BGS Screen
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)															
Volatile Organic Compounds																	
1,2,4-Trimethylbenzene	mg/kg	30	16	20	6.6	7.7	1.2	210	76	120	9.8	0.55	100	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	5.3	6.6	2.2	2.6	0.68	64	25	46	3.3	0.19	33	-	-	-	-
Benzene	mg/kg	1.2	0.34	2.8	1	1.1	0.12 U	18	2.4	0.51 U	0.87	0.55	4.8	-	-	0.087 U	-
Ethylbenzene	mg/kg	5.8	3.6	6.9	2.5	2.7	0.23	63	26	17	3.3	0.29	34	-	-	0.087 U	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	4	3.8	0.73	0.68	0.12 U	130	28	0.29 J	3.4	1.8	73	-	-	0.087 U	-
Trichloroethene	mg/kg	0.41	0.13 U	0.12 U	0.12 U	0.12 U	0.12 U	1.1 U	0.28 U	0.51 U	0.11 U	0.12 U	0.57 U	-	-	0.087 U	-
Xylenes (total)	mg/kg	58	18	35	7.2	6.9	0.69	370	130	83	16	1.5	190	-	-	0.26 U	-
Volatile Organic Compounds - Tentatively Identified Compounds																	
Total VOC TICs	mg/kg	-	58	120.3	25.1	28.8	47.4	728	279	608	48.6	4.43	822	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																	
Benzo(a)anthracene	mg/kg	1.1	0.037 U	0.038 U	0.037 U	0.037 U	0.037 U	0.036 U	0.039 U	0.039 U	0.037 U	0.037 U	0.038 U	-	-	0.035 U	-
Benzo(a)pyrene	mg/kg	0.24	0.037 U	0.038 U	0.037 U	0.037 U	0.037 U	0.036 U	0.039 U	0.039 U	0.037 U	0.037 U	0.038 U	-	-	0.035 U	-
Benzo(b)fluoranthene	mg/kg	1.11	0.037 U	0.038 U	0.037 U	0.037 U	0.037 U	0.036 U	0.039 U	0.039 U	0.037 U	0.037 U	0.038 U	-	-	0.035 U	-
Dibenz(a,h)anthracene	mg/kg	0.17	0.037 U	0.038 U	0.037 U	0.037 U	0.037 U	0.036 U	0.039 U	0.039 U	0.037 U	0.037 U	0.038 U	-	-	0.035 U	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																	
Total SVOC TICs	mg/kg	-	7.23	1.79	3.27	3.08	211.6	6.53	1.24	77.7	2.02	11.01	5.51	N/A	N/A	N/A	N/A
Metals																	
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	3.8 U	19.8 U	-	0.6 U
Arsenic	mg/kg	11	-	-	-	-	-	-	-	-	-	-	-	1.6	2.21	-	0.68
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	531	500	-	826
Cadmium	mg/kg	7.1	-	-	-	-	-	-	-	-	-	-	-	1.7 U	0.1 U	-	1.7 U
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	124.4	71.3	-	13.5
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	56	31	-	313 U
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	11.7	20.1	-	8.1
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	27957	19987	-	8359
Lead	mg/kg	400	-	-	-	-	-	-	-	-	-	-	-	9.2	16.6	-	5.9
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	253.6	237.9	-	251.4
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	6.5 U	6.5 U	-	6.5 U
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	31.1	26.6	-	18.6
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	4.4 U	0.021 U	-	4.4 U
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	76	32.9	-	56 U
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	36.6	42.9	-	11.3

Notes:
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DNREC-RS - Department of Natural Resources and Environmental
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Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			BH14-11	BH15-11	BH15-11	BH16-11	BH16-11	BH16-11	BH17-11	BH17-11	BH18-11	BH18-11	BH18-11	BH19/MW27-11	BH19/MW27-11	BH19/MW27-11	BH20-11	BH20-11
Sample Date:			9/26/2011	10/3/2011	10/3/2011	9/29/2011	9/29/2011	9/29/2011	10/3/2011	10/3/2011	8/6/2012	10/3/2011	10/3/2011	9/29/2011	9/29/2011	9/29/2011	10/3/2011	10/3/2011
Sample Depth:			(5-5.5) ft BGS	(0-2) ft BGS	(6-8) ft BGS	(0-2) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(11-13) ft BGS	(0.6-2) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(8-10) ft BGS
Source:			Screen	Screen	Screen	Screen	Lab	Screen	Screen	Screen	Lab	Screen	Screen	Lab	Screen	Screen	Lab	Screen
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	0.089 U	-	-	-	-	-	-	0.1 U	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	0.089 U	-	-	-	-	-	-	0.1 U	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	0.089 U	-	-	-	-	-	-	0.051 J	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	0.089 U	-	-	-	-	-	-	0.1 U	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	0.27 U	-	-	-	-	-	-	0.059 J	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																		
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																		
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	0.037 U	-	-	-	-	-	-	0.19	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	0.037 U	-	-	-	-	-	-	0.2	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	0.037 U	-	-	-	-	-	-	0.3	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	0.037 U	-	-	-	-	-	-	0.045	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																		
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.52	N/A	N/A	N/A	N/A
Metals																		
Aluminum	mg/kg	51200	-	-	-	-	14600	-	-	-	9140	-	-	8630	-	-	8000	-
Antimony	mg/kg	3.1	1.1 U	19.8 U	1.6 U	0.1 U	2.1 UJ	NS	3.0 U	0.3 U	2.1 U	31.1	13.9	93.4 J	222.2	19.8 U	195	42.3
Arsenic	mg/kg	11	1.21	2.2	1.31	2.85	2.0	NS	3.63	11.07	3.8	61.94	20.43	18.2	452.5	2.9	48.1	93.93
Barium	mg/kg	1500	773	611	420	645	147 J	NS	670	611	388	1968	453	1930 J	6010	342	7080	3040
Cadmium	mg/kg	7.1	1.7 U	0.2 U	0.2 U	1.7 U	1.0 U	NS	0.8 U	0.3 U	3.8	14.8	3.3 U	19.9	56.9	2.9 U	63.8	12.4
Chromium	mg/kg	214	25	79.2	119.7	37.7	46.1	NS	76.6	72.4	25.7	144.1	79.6	99.6	649.4	141.5	84.1	135.8
Cobalt	mg/kg	34	15	22.7	9.6 U	10.8 U	65.9	NS	110	59.6	5.2 J	39	79	6.3 J	52	199	8.9 J	50.5
Copper	mg/kg	310	9.9	14.1	14.2	9.3	16.7	NS	60.8	20	17.4	48.9	44.4	271	383.9	12.2	203	56.6
Iron	mg/kg	74767	13581	16468	18787	18409	27900	NS	44777	30035	11500	25808	38871	17600	34566	109710	44900	29392
Lead	mg/kg	400	7.3	21.6	10	23.5	4.4 J	NS	38.7	109.4	151	627.7	220.7	2200 J	4444	2.7 U	10600	915
Manganese	mg/kg	2100	1003.5	522	173.4	311.3	1950	NS	638.5	362.8	52.5	295.1	516.4	131	453.5	575	450	384.2
Mercury	mg/kg	1.1	6.5 U	6.5 U	6.5 U	6.5 U	0.036 U	NS	6.5 U	6.5 U	0.051	1.14 U	6.5 U	0.12	9.9	6.5 U	0.27	6.5 U
Nickel	mg/kg	150	23.7	26.6	29.1	28.2	25.5	NS	67.7	42.2	10.4	41.5	51.2	41.1	84.1	92.4	76.2	49.6
Thallium	mg/kg	0.078	0.015 U	0.030 U	0.017 U	4.4 U	2.1 U	NS	0.010 U	4.4 U	2.1 U	0.046 U	4.4 U	2.3 U	0.91	0.039 U	2.4 U	0.008 U
Vanadium	mg/kg	134	56 U	5.5 U	90.5	56 U	61.5	NS	66	64.2	25.2	56 U	62.3	28.3	56 U	117	25.9	56 U
Zinc	mg/kg	2300	18.5	34.7	46	43.1	32.0 J	NS	111.8	225.1	164	909.4	138.3	1770 J	4015	86.3	7720	1231

Notes:
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J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			BH21-11	BH21-11	BH22-11	BH22-11	BH23-11	BH23-11	BH23-11	BH-24/2	BH24-11	BH24-11	BH25-11	BH25-11	BH26-11	BH26-11	BH27/MW28-11	BH27/MW28-11
Sample Date:			9/27/2011	9/27/2011	10/3/2011	10/3/2011	9/27/2011	9/27/2011	9/27/2011	8/6/2012	10/3/2011	10/3/2011	9/28/2011	9/28/2011	9/28/2011	9/28/2011	9/29/2011	9/29/2011
Sample Depth:			(0-2) ft BGS	(12-14) ft BGS	(0-2) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(8-10) ft BGS	(0.6-2) ft BGS	(0-2) ft BGS	(6-8) ft BGS	(0-2) ft BGS	(13-14) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(7-9) ft BGS	(7-9) ft BGS
Source:			Screen	Screen	Screen	Screen	Lab	Screen	Screen	Lab	Screen	Screen	Screen	Screen	Screen	Screen	Lab	Screen
Parameters			Units	DNREC-SIRS Screening Levels (November 2021)														
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	0.082 U	-	-	-	-	-	-	-	-	-	0.11 U	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	0.082 U	-	-	-	-	-	-	-	-	-	0.11 U	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	0.082 U	-	-	-	-	-	-	-	-	-	0.11 U	-
Trichloroethene	mg/kg	0.41	-	-	-	-	0.082 U	-	-	-	-	-	-	-	-	-	0.11 U	-
Xylenes (total)	mg/kg	58	-	-	-	-	0.25 U	-	-	-	-	-	-	-	-	-	0.34 U	-
Volatile Organic Compounds - Tentatively Identified Compounds																		
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																		
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	0.04 U	-	-	-	-	-	-	-	-	-	0.041 U	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	0.052	-	-	-	-	-	-	-	-	-	0.041 U	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	0.066	-	-	-	-	-	-	-	-	-	0.041 U	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	0.04 U	-	-	-	-	-	-	-	-	-	0.041 U	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																		
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	0.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																		
Aluminum	mg/kg	51200	-	-	-	-	11800	-	-	10100	-	-	-	-	-	-	9250	-
Antimony	mg/kg	3.1	2.9 U	19.8 U	5.9	2.5 U	3.6 U	18.4	1.4 U	37.2	14.1	19.8 U	19.8 U	2.3 U	0.5 U	19.8 U	2.3 UJ	1.6 U
Arsenic	mg/kg	11	3.57	2.02	11.82	2.25	4.7	30.57	2.44	12.2	25.76	1.99	2.23	2.25	2.52	1.98	5.5	3.22
Barium	mg/kg	1500	571	562	616	549	230	1049.1	603	3190	817	333	861	588	519	453	163 J	591
Cadmium	mg/kg	7.1	1.7 U	1.0 U	1.7 U	1.3 U	0.52 J	2.53	0.0 U	10.1	2.2 U	0.3 U	0.3 U	1.7 U	1.7 U	1.7 U	0.38 J	1.7 U
Chromium	mg/kg	214	54.8	78.5	57.2	164	18.0 U	45.5	58	42.0	74.8	316.8	47.1	59.1	47	79.4	25.5	94.9
Cobalt	mg/kg	34	46.2	14.7	32.8	519	5.0 J	313 U	313 U	6.4 J	87	105.8	30.5	41.8	15.0 U	80.1	10.2 J	12.6 U
Copper	mg/kg	310	15.2	9.4	20.7	32.9	10.6	13.6	15.1	52.3	23.1	18.5	18.4	17.8	12.4	14.7	13.2	25
Iron	mg/kg	74767	24494	14415	24697	123620	17900	19064	13078	31800	35620	34541	23834	21279	19403	32815	15700	15319
Lead	mg/kg	400	26.7	7.4	116.3	2.7 U	127	302.1	21.6	2210	264.2	14.2	21.8	16.1	20.4	9.2	14.9 J	22.5
Manganese	mg/kg	2100	259.8	187.2	270.5	11074	655 J	1539.4	156.7	293	678.7	622	247	168.3	251.3	475.6	122	254.8
Mercury	mg/kg	1.1	6.5 U	6.5 U	6.5 U	6.5 U	0.068	6.5 U	0.25 U	0.045	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	0.29 U	0.041 U	6.5 U
Nickel	mg/kg	150	34.9	35.1	33.7	136.1	7.9 J	26.4	27.3	16.7	41.9	42.7	34.9	36.8	32.4	45.4	12.4	32.7
Thallium	mg/kg	0.078	0.014 U	4.4 U	0.002 U	0.059 U	2.2 U	19.1	0.024 U	2.2 U	4.4 U	4.4 U	4.4 U	0.046 U	4.4 U	0.003 U	2.3 U	4.4 U
Vanadium	mg/kg	134	29.5	53.3	30.3	198	26.2	56 U	29.1	26.9	56 U	81.5	2.9 U	50.7	42.7	82	45.1	35.2
Zinc	mg/kg	2300	46.8	79.2	72.7	112.1	71.4	200.7	54.4	1020	170.9	41.8	39.8	52.3	41.3	46.2	48.4 J	65.8

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-5 BH28-11 9/29/2011 (0-2) ft BGS Screen (Duplicate)	OU-5 BH28-11 9/29/2011 (3-5) ft BGS Screen	OU-5 BH29-11 9/28/2011 (0-2) ft BGS Screen	OU-5 BH29-11 9/28/2011 (12-14) ft BGS Screen	OU-5 BH30-11 9/28/2011 (0-2) ft BGS Screen	OU-5 BH30-11 9/28/2011 (7-9) ft BGS Screen	OU-5 BH31-11 9/29/2011 (0-2) ft BGS Screen	OU-5 BH31-11 9/29/2011 (6-8) ft BGS Screen	OU-5 BH32-11 9/29/2011 (0-2) ft BGS Screen	OU-5 BH32-11 9/29/2011 (5-7) ft BGS Lab	OU-5 BH32-11 9/29/2011 (5-7) ft BGS Screen	OU-5 BH33-11 9/28/2011 (0-2) ft BGS Lab	OU-5 BH33-11 9/28/2011 (0-2) ft BGS Screen	OU-5 BH33-11 9/28/2011 (7-9) ft BGS Screen	OU-5 BH34-11 9/29/2011 (7-9) ft BGS Screen	OU-5 BH35-11 9/28/2011 (0-2) ft BGS Screen	OU-5 BH35-11 9/28/2011 (7-9) ft BGS Screen	OU-5 BH-53/2 8/6/2012 (0.6-2) ft BGS Lab
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	0.1 U	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	0.1 U	-	-	-	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	0.1 U	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	0.1 U	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	0.3 U	-	-	-	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	0.04 U	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	0.04 U	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	0.04 U	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	0.04 U	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																				
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	11600	-	9890	-	-	-	-	-	10200
Antimony	mg/kg	3.1	4.5 U	0.9 U	19.8 U	19.8 U	19.8 U	6	1.1 U	19.8 U	1.0 U	2.5 UJ	2.9 U	1.7 J	19.8 U	1.4 U	2.4 U	1.3 U	19.8 U	13.3
Arsenic	mg/kg	11	7.37	1.7	3.78	2.33	1.61	1.73	2.71	1.43	2.53	6.4	2.2	5.7	18.99	2.84	3.24	2.99	2.85	6.6
Barium	mg/kg	1500	675	434	514	721	329	403	575	460	583	106 J	353	210	756	417	586	451	533	1840
Cadmium	mg/kg	7.1	1.9 U	1.7 U	1.5 U	1.7 U	1.7 U	1.7 U	0.2 U	1.7 U	1.7 U	1.2 U	0.7 U	0.55 J	1.3 U	1.7 U	1.7 U	0.4 U	1.7 U	8.2
Chromium	mg/kg	214	65.2	54.7	48.8	64.5	55.2	83.6	51.6	80.7	56.7	27.0	171.2	14.7	47.3	59.2	56.1	44.9	60.1	44.3
Cobalt	mg/kg	34	29.3	33.1	19.8	31	7.1 U	51.9	48.1	14.7 U	68.2	6.1 J	197	6.1 J	56.9	22.2	56.5	60.5	57.8	8.1 J
Copper	mg/kg	310	18.4	20	20.4	23	15.6	17.1	18.7	20.3	15.2	10.7	46.3	20.0 J	36.1	19.6	27.8	15.4	21.1	49.7
Iron	mg/kg	74767	21514	18437	19041	19312	16203	29753	31782	17160	32394	24200	95940	16700	24858	15992	29516	23890	25821	21300
Lead	mg/kg	400	59.4	11.6	26.6	18.4	9.3	11.2	14.3	14.2	12.6	27.4 J	6.6 U	180	189.4	10.7	13.5	18.7	15.2	1150
Manganese	mg/kg	2100	236.1	208.9	286.9	165.4	308.9	362.1	208	296.9	222.7	368	331.4	399	363.8	228.6	313.7	485.4	230.5	374
Mercury	mg/kg	1.1	6.5 U	6.5 U	0.55 U	0.32 U	6.5 U	0.11 U	6.5 U	6.5 U	6.5 U	0.040 U	6.5 U	0.15	0.31 U	6.5 U	6.5 U	6.5 U	6.5 U	0.099
Nickel	mg/kg	150	27.2	33.7	30.2	31	22.6	44	38.9	28.1	47.3	8.0 J	105.1	10.0	41.8	32.8	44.1	32.4	39.6	17.6
Thallium	mg/kg	0.078	0.024 U	4.4 U	0.037 U	0.004 U	0.005 U	0.052 U	4.4 U	4.4 U	0.057 U	2.4 U	4.4 U	2.5 U	4.4 U	0.020 U	0.031 U	4.4 U	0.062	2.2 U
Vanadium	mg/kg	134	17.8	34.7	31.6	7.8 U	34.6	96	47.8	71.7	17.2 U	42.0	108	21.9	14.8 U	54.3	68	17	47.8	40.3
Zinc	mg/kg	2300	98.3	50.9	95	48.5	36.1	50.5	48.2	51.4	45.1	27.9 J	58.3	167	192.9	46.6	64.1	40.9	43.2	665

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
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Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			BH53-11	BH53-11	BH53-11	BH53-11	BH53-11	BH54-11	BH54-11	BH54-11	BH54-11	BH55-11	BH55-11	BH56-11	BH56-11	BH56-11	BH27SW_South	EA-BH27-2	EA-BH27-3	EA-BH27-4
Sample Date:			10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	10/4/2011	12/16/2019	12/11/2019	12/11/2019	12/11/2019
Sample Depth:			(0-2) ft BGS	(7-9) ft BGS	(7-9) ft BGS	(7-9) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(7-9) ft BGS	(1.5-1.5) ft BGS	(3-3.5) ft BGS	(3-3.5) ft BGS	(3-3.5) ft BGS
Source:			Screen	Lab	Screen	Lab	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Lab	Lab	Lab	Lab
						(Duplicate)	(Duplicate)		(Duplicate)		(Duplicate)				(Duplicate)					
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	0.089 U	-	0.083 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	0.089 U	-	0.083 U	-	-	-	-	-	-	-	-	-	-	U	0.11 J	0.090 U	0.10 U
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	0.089 U	-	0.083 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	0.089 U	-	0.083 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	0.27 U	-	0.25 U	-	-	-	-	-	-	-	-	-	-	0.067 J	0.73	0.070 J	0.10 J
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	0.04 U	-	0.04 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	0.04 U	-	0.04 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	0.04 U	-	0.04 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	0.04 U	-	0.04 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U	0.49	0.090 U	0.28
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																				
Aluminum	mg/kg	51200	-	7890	-	8000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	18.7	2.2 U	2.2 U	2.4 U	NS	0.7 U	NS	0.2 U	NS	19.8 U	1.5 U	6.8	NS	0.2 U	18.7 J	185 J	2.4 J	4.5 UJ
Arsenic	mg/kg	11	38.88	1.6	1.64	1.5	NS	9.98	NS	2.41	NS	4.97	1.88	9.77	NS	1.94	10.1	45.8	7.2	7.1
Barium	mg/kg	1500	1818	48.0	438	47.6	NS	437	NS	500	NS	490	410	1011	NS	500	-	-	-	-
Cadmium	mg/kg	7.1	5.2	1.1 U	1.7 U	1.2 U	NS	0.6 U	NS	1.7 U	NS	1.7 U	1.7 U	0.4 U	NS	0.3 U	21.4	179	1.5	0.13 J
Chromium	mg/kg	214	132.3	24.4	90.3	24.6	NS	53.7	NS	58.9	NS	72.8	146.7	53.5	NS	59.4	-	-	-	-
Cobalt	mg/kg	34	41.2	6.9 J	113	6.0 J	NS	7.6 U	NS	81.4	NS	30.6	23.5	13.8 U	NS	80.4	-	-	-	-
Copper	mg/kg	310	49.6	4.4 J	18.2	5.2 J	NS	9.3	NS	14.1	NS	18.8	14.4	18.4	NS	8.9	-	-	-	-
Iron	mg/kg	74767	24343	20200	46790	25200	NS	15687	NS	31656	NS	19048	17632	16413	NS	28498	-	-	-	-
Lead	mg/kg	400	389.2	4.7	5.7	4.8	NS	93.2	NS	7.4	NS	45.2	6.9	99.2	NS	13.5	1270	9250 J	85.1 J	29.0 J
Manganese	mg/kg	2100	293.8	84.6	355.5	98.0	NS	212	NS	196.1	NS	309.1	233.1	237.6	NS	149.5	-	-	-	-
Mercury	mg/kg	1.1	0.87 U	0.038 U	6.5 U	0.039 U	NS	6.5 U	NS	6.5 U	NS	6.5 U	6.5 U	6.5 U	NS	6.5 U	-	-	-	-
Nickel	mg/kg	150	40	7.7 J	51.8	7.9 J	NS	33.5	NS	42.1	NS	30.4	32.8	28.7	NS	38.5	-	-	-	-
Thallium	mg/kg	0.078	0.044 U	2.2 U	4.4 U	2.4 U	NS	4.4 U	NS	4.4 U	NS	0.022 U	4.4 U	0.013 U	NS	4.4 U	-	-	-	-
Vanadium	mg/kg	134	56 U	29.7	53	28.4	NS	42.5	NS	59.9	NS	42.9	65	0.6 U	NS	51.1	-	-	-	-
Zinc	mg/kg	2300	544.6	33.5	46.2	36.1	NS	53.2	NS	34.2	NS	59.4	46.2	73.2	NS	39.4	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			EA-BH27-5	EA-BH27-6	EA-BH27-7	EA-BH27-8	EA-BH27-9	EA-BH27-10	EA-BH34-1	EA-BH34-2	EA-BH34-3	EA-BH34-4	EA-BH34-5	EA-BH34-6	EA-BH34-7	EA-BH34-8	EA-BH34-9
Sample Date:			12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/10/2019	12/10/2019	12/10/2019	12/10/2019	12/10/2019	12/10/2019	12/10/2019	12/10/2019	12/10/2019
Sample Depth:			(3-3.5) ft BGS	(3-3.5) ft BGS	(3-3.5) ft BGS	(3-3.5) ft BGS	(5-5.5) ft BGS	(5-5.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(5-5.5) ft BGS
Source:			Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)															
Volatile Organic Compounds																	
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	0.12 U	0.099 J	0.097 U	0.11 J	0.11 U	0.087 U	0.11 U	0.11 U	0.11 U	0.13 U	0.096 U	0.12 U	0.11 U	0.10 U	0.086 U
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	0.12 J	0.68	0.031 J	0.46	0.22 U	0.17 U	0.23 U	0.22 U	0.21 U	0.25 U	0.19 U	0.23 U	0.21 U	0.21 U	0.17 U
Volatile Organic Compounds - Tentatively Identified Compounds																	
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																	
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	0.14	0.28	0.097 U	0.16 U	0.11 U	0.087 U	0.11 U	0.11 U	0.11 U	0.13 U	0.096 U	0.12 U	0.11 U	0.10 U	0.086 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																	
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																	
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	35.0 J	83.7 J	18.1 J	727 J	4.9 J	4.1 UJ	5.4 UJ	4.9 UJ	4.5 UJ	4.9 UJ	5.2 UJ	5.3 UJ	4.7 UJ	4.6 UJ	4.6 UJ
Arsenic	mg/kg	11	11.8	16.8	10.2	161	4.0	1.9 J	6.7	3.6 J	2.1 J	3.5 J	4.7	4.3	2.3 J	3.8	2.1 J
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	7.1	187	251	60.2	73.4	0.57 J	0.82 U	1.1 U	0.98 U	0.90 U	0.97 U	1.0 U	0.095 J	0.94 U	0.93 U	0.92 U
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	400	2260 J	3430 J	1300 J	28500 J	214 J	11.4 J	11.1	10.3	16.9	26.0	11.4	30.8	20.6	10.4	6.5
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			EA-MW29-1	EA-MW29-2	EA-MW29-3	EA-MW29-5	EA-MW29-6	EA-MW29-7	EA-MW29-8	EA-MW29-9	EA-MW29-10	EA-MW29-10	EA-MW29-11	MW29-11	MW29-11	TT-1	TT-2	TT-2
Sample Date:			12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/6/2019	12/6/2019	12/6/2019	12/6/2019	12/6/2019	12/6/2019	12/12/2019	9/27/2011	9/27/2011	8/22/2012	8/22/2012	8/22/2012
Sample Depth:			(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(5-5.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(4-4.5) ft BGS	(5-5.5) ft BGS	(5-5.5) ft BGS	(3-3.5) ft BGS	(17-19) ft BGS	(17-19) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Source:			Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Lab	Screen	Screen	Screen	Screen
			(Duplicate)															
Parameters	Units	DNREC-SIRS																
		Screening Levels (November 2021)																
Volatile Organic Compounds																		
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	1 J	-	-	-	-
Ethylbenzene	mg/kg	5.8	0.052 J	0.054 J	160 J	0.28	79 J	220 J	0.081 U	0.11 J	5.1	4.9	0.16	46 J	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	22 J	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	0.51 J	-	-	-	-
Xylenes (total)	mg/kg	58	0.26 U	0.19 J	710 J	0.42	400 J	1200 J	0.16 U	0.37	25	23	0.47	220 J	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																		
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1041	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																		
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	0.41 U	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	0.41 U	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	0.41 U	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	0.41 U	-	-	-	-
Naphthalene	mg/kg	3.8	0.13 U	0.11 U	50	0.14	70 J	46 J	0.081 U	19	1.5	1.3	0.79	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																		
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	725	N/A	N/A	N/A	N/A
Metals																		
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	13000	-	-	-	-
Antimony	mg/kg	3.1	71.3 J	5.0 UJ	5.2 UJ	5.2 UJ	20.5 J	18.5 J	3.6 UJ	1.5 J	3.9 UJ	3.9 UJ	4.1 UJ	2.5 U	4.4 U	-	-	-
Arsenic	mg/kg	11	12.5 J	3.6 J	10.7	3.7 J	9.4 J	22.3	2.7 U	3.9	2.3 J	2.9	3.9	3.5	6.87	1	35.25	6.25
Barium	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	5260	18020	1400.25	9480.25	913.25
Cadmium	mg/kg	7.1	117	1.0 U	1.8	1.8	52.4	296	0.72 U	4.2	0.33 J	0.18 J	1.8	7.6	17.7	10.75	25	12
Chromium	mg/kg	214	-	-	-	-	-	-	-	-	-	-	-	29.5	17.4 U	53.75	292	102.75
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	8.2 J	30.6	-	-	-
Copper	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	10.7	25.1	7.75	101.5	26.25
Iron	mg/kg	74767	-	-	-	-	-	-	-	-	-	-	-	17000	23583	11825	20450	14370.5
Lead	mg/kg	400	1900	35.3	584	32.7	545	2140	4.8	92.7	21.7	28.9	145	48.3	62.9	62.25	2268.25	112
Manganese	mg/kg	2100	-	-	-	-	-	-	-	-	-	-	-	100 J	222.1	168.25	410.5	168.25
Mercury	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	0.039 U	6.5 U	3.25	3.75	0.5
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	16.1	36.9	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	2.5 U	4.4 U	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	25.5	56 U	-	-	-
Zinc	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	665	1229	144	1423.5	168

Notes:
U - Not detected at the associated reporting limit
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Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-5 TT-3 8/22/2012 (4-6) ft BGS Screen	OU-5 TT-4 8/22/2012 (0-2) ft BGS Screen	OU-5 TT-4 8/22/2012 (4-6) ft BGS Screen	OU-5 TT-5 8/22/2012 (0-2) ft BGS Screen	OU-5 TT-5 8/22/2012 (4-6) ft BGS Screen	OU-5 TT-6 8/22/2012 (0-2) ft BGS Screen	OU-5 TT-6 8/22/2012 (0.6-2) ft BGS Lab	OU-5 TT-7 8/23/2012 (0-2) ft BGS Screen	OU-5 TT-8 8/23/2012 (0-2) ft BGS Screen	OU-5 TT-9 8/23/2012 (0-2) ft BGS Screen	OU-5 TT-9 8/23/2012 (2-4) ft BGS Lab	OU-5 TT-9 8/23/2012 (2-4) ft BGS Screen	OU-5 TT-10 8/23/2012 (0-2) ft BGS Screen	OU-5 TT-10 8/23/2012 (2-4) ft BGS Screen	OU-5 TT-11 8/23/2012 (0-2) ft BGS Screen	OU-5 TT-11 8/23/2012 (4-6) ft BGS Screen	OU-5 TT-11 8/23/2012 (6-8) ft BGS Screen	OU-5 TT-12 8/23/2012 (0-2) ft BGS Screen	OU-5 TT-12 8/23/2012 (4-6) ft BGS Screen
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																			
Volatile Organic Compounds																					
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																					
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																					
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																					
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																					
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	11	125.25	2.75	145.25	3.75	17	2.8	2	80	111	1.2 U	4.5	79	7.25	56.75	30.75	3.25	1048	8.75
Barium	mg/kg	1500	1152.5	20762	572.75	48525	1150.75	1101	-	832.25	4502.75	1117.5	-	673.5	51825	642.75	1835.25	1998.5	1474.5	11835.5	654.25
Cadmium	mg/kg	7.1	16.75	30.75	16.5	74.75	15.75	4.75	-	3.25	40.5	9.25	-	3	31.75	3.25	30.5	11	7.75	26.75	17.25
Chromium	mg/kg	214	137	719.5	105.25	2604	14.75	151.5	-	103.75	1010	120.5	-	17.4 U	888.75	89.75	962.75	187.25	88	614.5	58.5
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	23.5	141.25	18.5	1232.25	21.25	36	-	29.25	343	98.25	-	21	143.75	21.5	1054.5	39.5	22.5	168.5	25.25
Iron	mg/kg	74767	40850	41000	18125	72375	23184.75	19550	-	12869.75	34100	43150	-	9202.5	35875	10238.75	93875	19500	21850	46125	20500
Lead	mg/kg	400	132.5	2938	92.5	5843.25	16.75	288.75	-	943.5	3799	2661.75	-	24.5	4561.25	54	7618	192.75	8	27475	51.25
Manganese	mg/kg	2100	1026.75	639.5	322.25	1572	148.5	276	-	159.5	505.5	476.25	-	193	694.5	230	1322.25	212.5	285.25	868.25	349.25
Mercury	mg/kg	1.1	1.5	1.25	2.25	9.25	3	5	-	4	2	7.75	-	1	4.25	0.25	1.25	3.25	6.25	9.5	0.5
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	167.5	3231.25	96.5	8115.5	34.25	294.25	-	111.75	6739.25	856.5	-	43	5124.25	63	1989	735.5	28.75	2377.75	45.25

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
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Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			TT-13	TT-13	TT-13	TT-13	TT-14	TT-15	TT-16	TT-16	TT-16	TT-16	TT-17	TT-17	TT-18	TT-19	TT-20	TT-20	TT-21	TT-21
Sample Date:			8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012	8/29/2012
Sample Depth:			(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(0.6-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(4-6) ft BGS	(0-2) ft BGS
Source:			Screen	Screen	Screen	Screen	Screen	Screen	Screen	Lab	Screen	Screen	Lab	Screen	Screen	Screen	Screen	Screen	Screen	Screen
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																				
Aluminum	mg/kg	51200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	82.75	21.5	37	2	4	1.75	20.25	20	3.9	4	3.5	3.5	10	4.5	103	4.25	61.75	10.75
Barium	mg/kg	1500	993.75	443.25	666.75	1718.75	900.25	1107.25	1137.25	628.75	-	1128.5	3069.25	-	909	619	17871	612.75	31550	1702.5
Cadmium	mg/kg	7.1	10.5	2	15.75	7	1.25	7.5	3.25	22.75	-	13.25	32.25	-	0.5	15.75	29	10.5	82.25	13
Chromium	mg/kg	214	121.75	24.25	139.5	178.75	57.75	62.75	164.75	184.25	-	80.75	187.25	-	166.5	85	827.5	110.25	979.75	110.25
Cobalt	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	41.75	20.25	22.5	23.75	14.5	6.5	47.75	311.75	-	10.5	52.25	-	27.5	29	161	26.5	170.25	21
Iron	mg/kg	74767	24000	10965.75	39875	29875	10355	10992	30650	29900	-	23000	20150	-	20700	14625	44650	20700	45100	30100
Lead	mg/kg	400	5515.75	484.75	733.5	8	128	14.25	359	412.75	-	11.75	908.75	-	303	169.5	4126.75	52.25	6866.5	322.5
Manganese	mg/kg	2100	288.75	222.75	325.5	1149.25	115	155	345.25	521.25	-	515.5	295.5	-	441.5	120.75	606.75	211.75	760.25	1912.75
Mercury	mg/kg	1.1	10	1.75	6.25	1	1.75	0.5	4	1.75	-	1.5	2.5	-	2.25	2	9	2	0.25	5.75
Nickel	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	248	33	43	25.75	71.25	23.75	291.75	497	-	24	493.75	-	217.25	100.5	1486.75	68.25	3793.5	187

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth: Source:			OU-5 TT-22 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-22 8/29/2012 (2-4) ft BGS Lab	OU-5 TT-22 8/29/2012 (2-4) ft BGS Screen	OU-5 TT-23 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-23 8/29/2012 (2-4) ft BGS Screen	OU-5 TT-24 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-24 8/29/2012 (0.6-2) ft BGS Lab	OU-5 TT-25 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-26 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-26 8/29/2012 (2-4) ft BGS Lab	OU-5 TT-26 8/29/2012 (2-4) ft BGS Screen	OU-5 TT-27 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-27 8/29/2012 (4-6) ft BGS Screen	OU-5 TT-28 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-28 8/29/2012 (2-4) ft BGS Screen	OU-5 TT-28 8/29/2012 (4-6) ft BGS Screen	OU-5 TT-29 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-30 8/29/2012 (0-2) ft BGS Screen	OU-5 TT-30 8/29/2012 (2-4) ft BGS Screen
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																			
Volatile Organic Compounds																					
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																					
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																					
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																					
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																					
Aluminum	mg/kg	51200	-	10800	-	-	-	-	11200	-	-	16600	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	3.1	-	2.6 UJ	-	-	-	-	2.2 UJ	-	-	1.7 J	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	11	U	2.5	3.25	159.5	7.75	1.75	4.1	4	45	5.3	4	41.5	8.75	12.25	26.5	2.75	4	20.25	3
Barium	mg/kg	1500	5919.5	301	534	16128.25	656	407.25	54.9	739.25	3196.5	58.4	799.75	21050	2012.75	10266	2443.75	634	618.5	1474.25	911.75
Cadmium	mg/kg	7.1	9.5	0.24 J	7.5	27.25	4.25	0.5	1.1 U	10.5	9.5	0.45 J	13.5	70.75	11	5.75	8.25	U	16.25	16.25	11.5
Chromium	mg/kg	214	245.25	41.2	84.75	591	143	20.5	19.9	55	248.5	27.5	38.75	1232	88.25	497	150.5	82	43.5	128	34.5
Cobalt	mg/kg	34	-	4.8 J	-	-	-	-	3.3 J	-	-	4.5 J	-	-	-	-	-	-	-	-	-
Copper	mg/kg	310	54.25	11.8	15.5	183.25	11.5	8.5	4.9 J	8.5	162	8.3	21	276	35.5	64.25	24	22	13.75	71.25	21.25
Iron	mg/kg	74767	25275	5880	15925	50825	31125	8790.5	15900	6879.5	36350	22700	15375	56250	15825	31150	37000	10771.75	16600	31000	14675
Lead	mg/kg	400	1224.5	32.1	45	4030.25	28.5	15.5	10.9	17.75	1176.25	10.8	21.5	6138.5	808.75	824	183	19	97.5	935	16.5
Manganese	mg/kg	2100	426.25	49.7	177.5	633	231.25	117.25	59.9	82.25	533.25	85.5	129	738.75	151.75	358.75	131.75	164.75	214.5	274	110.5
Mercury	mg/kg	1.1	4.25	0.029 J	1.75	11.25	2.5	1	R	2.75	2.25	R	4.5	1.25	4.5	3.75	3.25	1.25	2.25	3.75	4.25
Nickel	mg/kg	150	-	10.2	-	-	-	-	6.3 J	-	-	9.9	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	0.078	-	2.6 U	-	-	-	-	2.2 U	-	-	2.3 U	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	134	-	18.8	-	-	-	-	31.1	-	-	38.7	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	2300	1429.75	39.7	60	2583.25	38	16.5	19.3	12.25	925.25	27.8	33.5	4539.5	349.25	1200.25	240.5	34.25	83.25	448	27.75

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			TT-31	TT-32	TT-33	TT-33	TT-34	TT-34	TT-34	TT-35	TT-35	TT-35	TT-35	TT-35	TT-36	TT-37	TT-37	TT-37	TT-38	TT-39
Sample Date:			8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	9/6/2012
Sample Depth:			(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Source:			Screen	Screen	Screen	Screen	Screen	Lab	Lab	Screen	Screen	Screen	Lab	Screen	Screen	Screen	Lab	Screen	Screen	Screen
			(Duplicate)																	
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																				
Aluminum	mg/kg	51200	-	-	-	-	-	15800	14500	-	-	-	17100	-	-	-	5390	-	-	-
Antimony	mg/kg	3.1	-	-	-	-	-	2.4 UJ	2.3 UJ	-	-	-	2.5 U	-	-	-	2.2 U	-	-	-
Arsenic	mg/kg	11	9	4.5	14.5	8.75	29.5	2.8	2.9	9.25	112.5	16.75	11.1	10.5	4	28.25	2.3	2.5	5.5	108
Barium	mg/kg	1500	862.25	465.25	1202	448.75	8732.75	83.0	74.2	768.75	2913.25	714.5	44.6 J	251.5	968.25	1764.75	89.8	660.5	592	3180
Cadmium	mg/kg	7.1	8.5	U	12	0.5	297.75	0.40 J	0.24 J	9	41.5	2.5	1.3 U	5.75	2.75	16.5	1.1 U	5	20	118.25
Chromium	mg/kg	214	118.5	56.5	49.5	60.75	678.25	24.3	25.7	76.25	228	64.5	34.2	85.25	47	174.75	8.3	80.5	52	641.5
Cobalt	mg/kg	34	-	-	-	-	-	2.4 J	2.5 J	-	-	-	3.0 J	-	-	-	1.3 J	-	-	-
Copper	mg/kg	310	46.25	20.25	20.75	21.5	200.5	9.3	8.5	14.25	271	23.75	10.1	12.25	17.25	80.75	5.5	22.5	19.5	376.75
Iron	mg/kg	74767	1.8935	7345	17400	9449.75	29525	16000	11100	10883.75	30525	12800	33700	23825	15675	25175	5210	9135.5	16050	42375
Lead	mg/kg	400	135.75	175.5	168	166.75	4981.75	25.6	32.5	81.75	4567.25	155	12.3	56.5	114.5	513.25	24.2	16.5	114.5	6598
Manganese	mg/kg	2100	252.25	113	195.25	119.25	486.5	39.5	44.2	108	491.75	184.25	66.5	229.25	152.75	248.75	38.6	46	146.5	372.5
Mercury	mg/kg	1.1	6.25	2.25	0.75	1.75	4.75	0.040 J	0.027 J	6.5	13	2.5	0.045 J	3.25	3.75	5.5	0.089 J	0.5	U	0.5
Nickel	mg/kg	150	-	-	-	-	-	5.3 J	6.4 J	-	-	-	7.1 J	-	-	-	2.5 J	-	-	-
Thallium	mg/kg	0.078	-	-	-	-	-	2.4 U	2.3 U	-	-	-	2.5 U	-	-	-	2.2 U	-	-	-
Vanadium	mg/kg	134	-	-	-	-	-	36.1	30.9	-	-	-	52.8	-	-	-	15.5	-	-	-
Zinc	mg/kg	2300	219	87	67	176.5	4218	28.4	25.5	86	2369.75	96.25	25.3	53	58.5	431	22.0	28	112.5	2366

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			TT-40	TT-41	TT-41	TT-41	TT-42	TT-43	TT-44	TT-44	TT-45	TT-46	TT-47	TT-48	TT-48	TT-49	TT-50	TT-50	TT-51
Sample Date:			9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/10/2012	9/10/2012	9/6/2012	9/10/2012	9/10/2012	9/6/2012	9/10/2012
Sample Depth:			(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0.6-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(0.6-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(2-4) ft BGS
Source:			Screen	Screen	Lab	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Screen	Lab	Screen	Screen	Lab	Screen
Parameters			Units	DNREC-SIRS Screening Levels (November 2021)															
Volatile Organic Compounds																			
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds																			
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																			
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																			
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals																			
Aluminum	mg/kg	51200	-	-	17100	-	-	-	-	7270	-	-	-	-	11900	-	-	19600	-
Antimony	mg/kg	3.1	-	-	2.3 UJ	-	-	-	-	2.5 UJ	-	-	-	-	2.2 UJ	-	-	1.5 J	-
Arsenic	mg/kg	11	5	213.5	1.6	11.75	3.25	1.25	2	1.9	1.25	5.25	6	13.5	3.0	8.5	19.75	7.2	4.5
Barium	mg/kg	1500	613.25	19200.5	104	596.75	449	526.5	528.75	105	984.25	559.5	816	711	154	1107.5	634.75	87.7	704
Cadmium	mg/kg	7.1	7.5	39.75	0.34 J	8.25	1.5	14.25	8	1.2 U	U	10	13.5	12	0.24 J	U	9.25	0.81 J	7.25
Chromium	mg/kg	214	57.75	1646	29.1	105.25	26.75	35.5	48.25	11.2	81.75	70	55	53.25	13.2	41.5	23.5	31.6	81
Cobalt	mg/kg	34	-	-	2.7 J	-	-	-	-	1.5 J	-	-	-	-	4.2 J	-	-	1.8 J	-
Copper	mg/kg	310	13.75	388.5	7.0	4.75	3.25	2	17	2.9 J	11	8.5	14	8.5	6.5	18.5	15	8.6	11.5
Iron	mg/kg	74767	11050	68650	15100	21125	5447.5	8489.25	5861.5	7470	11389	14800	12250	12025	11800	16600	19925	37700	19395
Lead	mg/kg	400	24	10369.25	13.6	30.75	27.25	27.25	35.25	16.4	32.5	70.75	63.5	87.25	17.0	29	252.75	9.9	17
Manganese	mg/kg	2100	79	1002	41.4	136	88	95.25	94.5	23.6	158.75	177.25	129	240.25	111	210.5	450.75	27.3	145
Mercury	mg/kg	1.1	2	5	0.031 J	2	U	1.75	2.5	R	0.75	3.25	3.5	4.75	0.046 J	U	2	0.038 J	3.5
Nickel	mg/kg	150	-	-	7.4 J	-	-	-	-	3.1 J	-	-	-	-	8.6 J	-	-	4.7 J	-
Thallium	mg/kg	0.078	-	-	2.3 U	-	-	-	-	2.5 U	-	-	-	-	2.2 U	-	-	2.4 U	-
Vanadium	mg/kg	134	-	-	25.7	-	-	-	-	17.9	-	-	-	-	20.9	-	-	52.5	-
Zinc	mg/kg	2300	55.25	11310.25	24.1	58.5	26.5	29	44.75	12.7	47.75	52.5	46	49.25	27.0	39	57	19.0	28

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.1

Historical Soil Exceedances Data Summary
Contaminated Media Management Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5
Sample Location:			TT-52	TT-52	TT-53	TT-54
Sample Date:			9/10/2012	9/6/2012	9/10/2012	9/12/2012
Sample Depth:			(0-2) ft BGS	(0.6-2) ft BGS	(0-2) ft BGS	(0-2) ft BGS
Source:			Screen	Lab	Screen	Screen
			DNREC-SIRS			
Parameters	Units	Screening Levels (November 2021)				
Volatile Organic Compounds						
1,2,4-Trimethylbenzene	mg/kg	30	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	27	-	-	-	-
Benzene	mg/kg	1.2	-	-	-	-
Ethylbenzene	mg/kg	5.8	-	-	-	-
N-Heptane	mg/kg	2.2	-	-	-	-
Toluene	mg/kg	490	-	-	-	-
Trichloroethene	mg/kg	0.41	-	-	-	-
Xylenes (total)	mg/kg	58	-	-	-	-
Volatile Organic Compounds - Tentatively Identified Compounds						
Total VOC TICs	mg/kg	-	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds						
Benzo(a)anthracene	mg/kg	1.1	-	-	-	-
Benzo(a)pyrene	mg/kg	0.24	-	-	-	-
Benzo(b)fluoranthene	mg/kg	1.11	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.17	-	-	-	-
Naphthalene	mg/kg	3.8	-	-	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds						
Total SVOC TICs	mg/kg	-	N/A	N/A	N/A	N/A
Metals						
Aluminum	mg/kg	51200	-	7760	-	-
Antimony	mg/kg	3.1	-	2.1 UJ	-	-
Arsenic	mg/kg	11	2.25	4.8	6.5	2
Barium	mg/kg	1500	904.75	180	1385.75	719.5
Cadmium	mg/kg	7.1	1.75	0.61 J	2.5	13
Chromium	mg/kg	214	63.5	14.0	93.25	88.25
Cobalt	mg/kg	34	-	5.2 J	-	-
Copper	mg/kg	310	18	8.5	25	12.25
Iron	mg/kg	74767	32875	13900	21625	10880.75
Lead	mg/kg	400	82.75	97.8	26.5	13.5
Manganese	mg/kg	2100	337.5	284	134.25	174
Mercury	mg/kg	1.1	3.5	0.046 J	1.5	2
Nickel	mg/kg	150	-	7.3 J	-	-
Thallium	mg/kg	0.078	-	2.1 U	-	-
Vanadium	mg/kg	134	-	22.4	-	-
Zinc	mg/kg	2300	62.75	45.3	72	44.5

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
DNREC-RS - Department of Natural Resources and Environmental
Control - Remediation Section
TICs - Tentatively Identified Compounds
OU - Operable Unit
"- " - Not measured

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-2 MW-1 7/10/1998	OU-2 MW-2 7/10/1998	OU-2 MW-2 6/1/2005	OU-2 MW-2 11/14/2005	OU-2 MW-2 8/22/2006	OU-2 MW-2 9/6/2006	OU-2 MW-2 12/14/2006	OU-2 MW-2 8/4/2008	OU-2 MW-2 2/25/2009	OU-2 MW-2 8/19/2009	OU-2 MW-2 3/3/2010	OU-2 MW-3 7/10/1998	OU-2 MW-3 6/1/2005	OU-2 MW-3 11/10/2005	OU-2 MW-3 8/22/2006	OU-2 MW-3 12/15/2006	OU-2 MW-3 8/5/2008	OU-2 MW-3 2/25/2009	OU-2 MW-3 8/19/2009	OU-2 MW-3 3/3/2010	
Parameters			Units	DNREC-SIRS Screening Levels (November 2021)																			
Volatile Organic Compounds																							
1,1-Dichloroethane	ug/L	2.8	20 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
1,2,4-Trichlorobenzene	ug/L	0.4	20 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
1,2,4-Trimethylbenzene	ug/L	5.6	20 U	20 U	-	-	-	-	-	-	-	-	-	1.0 U	200 U	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	20 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
1,2-Dichlorobenzene	ug/L	30	20 U	20 U	1.2 J	5.0 U	5.0 U	3.5 J	1.3 J	5.0 U	1.0 U	0.20 J	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
1,2-Dichloroethane	ug/L	0.17	20 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	400 U	400 U	200 U	10000 U	500 U	200 U	100 U	50 U
1,3,5-Trimethylbenzene	ug/L	6	20 U	20 U	-	-	-	-	-	-	-	-	-	-	200 U	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	20 U	20 U	1.5 J	5.0 U	5.0 U	6.7	0.6 J	5.0 U	1.0 U	0.27 J	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	100 U	100 U	5.0 U	R	5.0 U	R	R	5.0 U	10 U	R	10 U	5.0 U	1000 U	850 J	570 J	R	R	1200 U	2000 U	170 J	500 U
2-Hexanone	ug/L	3.8	100 U	100 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	5.0 U	1000 U	1000 U	1000 U	500 U	25000 U	1200 U	2000 U	1000 U	500 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	100 U	100 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	R	5.0 U	1000 U	1000 U	580 J	500 U	25000 U	540 J	820 J	440 J	380 J
Acetone	ug/L	1400	100 U	100 U	12	5.0 U	R	5.0 U	R	R	10 U	R	R	5.0 U	93000	350000	470000 J	370000 J	370000 J	220000 J	180000	200000 J	96000 J
Benzene	ug/L	0.46	20 U	72.5	15	28	38	36	22	6.9	3.3	1.0 U	5.7	1.0 U	942	1200	920	870	5000 U	960	980	580	1000
Carbon tetrachloride	ug/L	0.46	20 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	400 U	400 U	200 U	10000 U	500 U	200 U	100 U	50 U
Chlorobenzene	ug/L	7.8	20 U	20 U	1.2 J	5.0 U	5.0 U	8.5	5.0 U	5.0 U	1.0 U	5.9 U	1.6	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
Chloroform (Trichloromethane)	ug/L	0.22	20 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
cis-1,2-Dichloroethene	ug/L	3.6	20 U	20 U	1.0 J	5.0 U	0.6 J	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
Ethylbenzene	ug/L	1.5	906	1340	4.0 U	5.1	4.0 U	0.9 J	2.5 J	4.0 U	1.2	12 U	1.2	1.0 U	12400	18000	14000	10000	11000 J	18000	17000	10000	19000
Isopropyl benzene	ug/L	45	20 U	55.5	15	22	19	14	8.8	18	17	10	3.5	11	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	22 J
Methyl tert butyl ether (MTBE)	ug/L	10	-	-	54	33	14	10	13	4.2 J	2.7	2.1	2.2	0.67 J	-	810 J	560 J	800	25000 U	530 J	420	470	630
Methylene chloride	ug/L	5	20 U	20 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	600 U	600 U	300 U	15000 U	750 U	200 U	100 U	50 U
Tetrachloroethene	ug/L	1	20 U	20 U	0.4 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	200 U	200 U	100 U	5000 U	250 U	200 U	100 U	50 U
Toluene	ug/L	110	147	24.9	5.0 U	0.4 J	5.0 U	0.4 J	12	5.0 U	0.8 J	14 U	2.3	1.0 U	200 U	190000	180000	140000	160000	190000	150000	150000	170000
Trichloroethene	ug/L	0.28	20 U	20 U	0.7 J	1.0 U	0.7 J	1.0 U	0.7 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	200 U	200 U	100 U	5000 U	250 U	200 U	100 U	50 U
Vinyl chloride	ug/L	0.019	20 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	1000 U	1000 U	500 U	25000 U	1200 U	200 U	100 U	50 U
Xylenes (total)	ug/L	19	5350	5500	270	110	62	72	4.2 J	0.3 J	3.7	28 U	2.2 J	0.37 J	20700	30000	23000	18000	16000 J	30000	28000	17000	32000
Volatile Organic Compounds - Tentatively Identified Compounds																							
Total VOC TICs	ug/L	-	N/A	N/A	77	50.8	48.5	5.2	5.2	43.6	23.4	N/A	8.3	11.2	N/A	N/A	2100	1400	N/A	N/A	N/A	N/A	76000
Semi-volatile Organic Compounds																							
2,4-Dichlorophenol	ug/L	4.6	10 U	18	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	2.8 U	10 U	500 U	54 U	110 U	R	100 U	20 U	50 U	10 U	2.8 U
2,4-Dimethylphenol	ug/L	36	10 U	18	4.4 J	0.7 J	0.6 J	0.3 J	10 U	10 U	10 U	10 U	2.5 U	10 U	500 U	480	510	600	400	180	280	200	220
2,6-Dinitrotoluene	ug/L	0.049	10 U	10 U	2.3 U	2.2 U	2.2 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	0.59 U	2.1 U	500 U	11 U	22 U	44 U	20 U	4.0 U	10 U	2.0 U	0.59 U
2-Methylnaphthalene	ug/L	3.6	10 U	10 U	11 U	0.3 J	11 U	10 U	10 U	10 U	10 U	10 U	3.1 U	10 UJ	500 U	54 U	110 U	220 U	100 U	20 U	1.5 J	10 U	3.1 U
2-Methylphenol	ug/L	93	10 U	10 U	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	1.7 U	10 U	500 U	200	290	230	130	71	95	100	140
4-Chloroaniline	ug/L	0.37	10 U	10 U	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	2.1 U	10 U	500 U	54 U	110 U	220 U	100 U	20 U	50 U	10 U	2.1 U
4-Methylphenol	ug/L	190	-	-	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	1.6 U	10 U	-	600	770	770	640	360	460	240	370
Acetophenone	ug/L	190	-	-	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	4.3 U	10 U	-	54 U	110 U	220 U	25 J	6.9 J	50 U	14	20
Benzaldehyde	ug/L	19	-	-	11 UJ	11 UJ	11 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	1.3 UJ	10 U	-	140 J	120	220 UJ	100 UJ	20 UJ	50 UJ	10 U	14 J
Benzo(a)anthracene	ug/L	0.03	10 U	10 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.020 U	1.0 U	500 U	5.4 U	11 U	22 U	10 U	2.0 U	5.0 U	1.0 U	0.020 U
Benzo(a)pyrene	ug/L	0.025	10 U	10 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.030 U	1.0 U	500 U	5.4 U	11 U	22 U	10 U	2.0 U	5.0 U	1.0 U	0.030 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	-	-	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	5.4 U	10 U	-	54 U	110 U	220 U	100 U	20 U	50 U	10 U	5.4 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	2.4 U	2.1 U	500 U	54 U	110 U	220 U	100 U	20 U	50 U	10 U	2.4 U
Dibenz(a,h)anthracene	ug/L	0.025	10 U	10 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	500 U	5.4 U	11 U	22 UJ	10 U	2.0 U	5.0 U	1.0 U	0.16 U
Dibenzofuran	ug/L	0.79	10 U	10 U	11 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	3.6 U	10 UJ	500 U	54 U	110 U	220 U	100 U	20 U	50 U	10 U	3.6 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	10 U	10 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.12 U	1.0 U	500 U	5.4 U	11 U	22 UJ	10 U	2.0 U	5.0 U	1.0 U	0.12 U
Naphthalene	ug/L	0.17	10 U	10 U	0.7 J	1.0 J	0.4 J	0.9 J	0.5 J	10 U	0.5 J	10 U	3.7 U	10 UJ	500 U	54 U	110 U	220 U	5.5 J	20 U	42 J	19 U	3.7 U
Pentachlorophenol	ug/L	0.041	25 U	25 U	46 U	44 U	33 UJ	31 U	32 U	30 U													

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2		
Sample Location:			MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3		
Sample Date:			7/10/1998	7/10/1998	6/1/2005	11/14/2005	8/22/2006	9/6/2006	12/14/2006	8/4/2008	2/25/2009	8/19/2009	3/3/2010	11/7/2017	7/10/1998	6/1/2005	11/10/2005	8/22/2006	12/15/2006	8/5/2008	2/25/2009	8/19/2009	3/3/2010	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DNREC-SIRS																								
Parameters	Units	Screening Levels (November 2021)																						
Metals																								
Aluminum	ug/L	2000	-	-	200 U	-	650	116 J	190 U	104 J	200 U	200 U	200 U	41.4	-	200 U	-	439	226 J	150 J	230	193 J	130 J	
Antimony	ug/L	0.78	-	-	12 U	-	12 U	10 U	10 U	8.4 U	10 U	10.0 U	10.0 U	2.0 U	-	12 U	-	10 U	20 U	8.4 U	10 U	10.0 U	10.0 U	
Arsenic	ug/L	0.052	7	25	19.5	-	13.9	13.1	9.8	16.5	10.3	13.3	12.0	15.9	24	6.3	-	5 U	8.4 U	5.9 U	21 U	5.0 U	5.0 U	
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	14.9	12.8	11.2	-	-	-	-	-	-	-	-	7.1 U	8.4 U	-	-	-	-	
Barium	ug/L	380	952	938	264	-	499	445	439	586	670	526	456	169	856	555	-	460	470	662	680	705	722	
Barium (dissolved)	ug/L	380	-	-	-	-	506	459	435	-	-	-	-	-	-	-	-	533	489	-	-	-	-	
Cadmium	ug/L	0.92	1.6	3.7	5 U	-	3.2 U	4 U	4 U	0.70 J	4 U	5.0 U	5.0 U	2.0 U	5.5	5 U	-	4 U	8 U	5 U	4 U	5.0 U	5.0 U	
Chromium	ug/L	10	92	251	10 U	-	5.7 U	10 U	10 U	18 U	10 U	10.0 U	10.0 U	4.0 U	146	10 U	-	5.3 J	20 U	18 U	2.6 J	10.0 U	10.0 U	
Chromium (dissolved)	ug/L	10	-	-	-	-	5.7 U	10 U	10 U	-	-	-	-	-	-	-	-	4.7 J	20 U	-	-	-	-	
Cobalt	ug/L	0.6	-	-	50 U	-	2.7 J	50 U	50 U	3.8 J	7.3 J	4.2 J	40.6 J	2.2 J	-	50 U	-	50 U	100 U	100 U	50 U	50.0 U	4.4 J	
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	2.8 J	50 U	50 U	-	-	-	-	-	-	-	-	48 U	100 U	-	-	-	-	
Iron	ug/L	1400	-	-	51500	-	72100	63700	60800	73500	90500	61800	55600	17700	-	264000	-	217000	210000	260000	285000	258000	264000	
Iron (dissolved)	ug/L	1400	-	-	-	-	73400	65600	59900	-	-	-	-	-	-	-	-	245000	215000	-	-	-	-	
Lead	ug/L	15	33	124	3 U	-	3.7 U	3 U	3 U	12.5	3 U	5.0 U	5.0 U	0.50 J	45	6.9	-	7.2 U	6 U	54.1	6.6	5.0 U	4.9 J	
Manganese	ug/L	43	-	-	742	-	1220	982	949	1170	1350	948	870	402	-	21300	-	17800	17600	22200	25800	22100	23600	
Manganese (dissolved)	ug/L	43	-	-	-	-	1280	1040	917	-	-	-	-	-	-	-	-	21000	18100	-	-	-	-	
Mercury	ug/L	0.063	0.2 U	0.2 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.32	0.20 U	0.20 U	0.23	0.15	-	0.15 J	0.20 U	0.15 J	0.15 J	0.40	0.20 U	
Mercury (dissolved)	ug/L	0.063	-	-	-	-	0.20 U	0.11 J	0.20 U	-	-	-	-	-	-	-	-	0.14 J	0.20 U	-	-	-	-	
Nickel	ug/L	39	-	-	40 U	-	25 U	40 U	40 U	65 U	40 U	40.0 U	3.7 J	1.4 J	-	40 U	-	40 U	80 U	65 U	40 U	40.0 U	40.0 U	
Nickel (dissolved)	ug/L	39	-	-	-	-	25 U	40 U	40 U	-	-	-	-	-	-	-	-	49 U	80 U	-	-	-	-	
Selenium	ug/L	10	5 U	5 U	5.1 U	-	4.4 U	5 U	5 U	5.7 U	5 U	10.0 U	10.0 U	10.0 U	16	26 U	-	10 U	10 U	5.7 U	5 U	10.0 U	10.0 U	
Selenium (dissolved)	ug/L	10	-	-	-	-	4.4 U	5 U	5 U	-	-	-	-	-	-	-	-	8.7 U	10 U	-	-	-	-	
Silver	ug/L	9.4	5 U	5 U	15 U	-	12 U	10 U	10 U	8.6 U	10 U	10.0 U	1.6 J	2.0 U	5 U	15 U	-	10 U	20 U	8.6 U	10 U	10.0 U	9.6 J	
Thallium	ug/L	0.02	-	-	11 U	-	9.8 U	10 U	9.5 U	9.7 U	9.5 U	10.0 U	10.0 U	0.80 U	-	33 U	-	10 U	19 U	9.7 U	19 U	10.0 U	10.0 U	
Vanadium	ug/L	8.6	-	-	50 U	-	160 U	50 U	50 U	16 U	50 U	50.0 U	50.0 U	4.0 U	-	4.0	-	2.7 J	100 U	16 U	50 U	2.3 J	50.0 U	
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	160 U	50 U	50 U	-	-	-	-	-	-	-	-	310 U	100 U	-	-	-	-	

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
R - Rejected
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section
OU - Operable Unit
"- " - Not measured

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-2 MW-3 11/7/2017 -	OU-2 MW-3D 11/10/2005 -	OU-2 MW-3D 8/22/2006 -	OU-2 MW-3D 12/14/2006 -	OU-2 MW-3D 8/5/2008 -	OU-2 MW-3D 8/5/2008 -	OU-2 MW-3D 2/24/2009 -	OU-2 MW-3D 8/18/2009 -	OU-2 MW-3D 3/2/2010 -	OU-2 MW-3D 3/2/2010 -	OU-2 MW-3D 11/6/2017 -	OU-2 MW-5 7/10/1998 -	OU-2 MW-6 6/1/2005 -	OU-2 MW-6 11/11/2005 -	OU-2 MW-6 8/22/2006 -	OU-2 MW-6 9/6/2006 -	OU-2 MW-6 12/14/2006 -	OU-2 MW-6 8/5/2008 -	OU-2 MW-6 2/24/2009 -	OU-2 MW-6 2/24/2009 -
			(Duplicate)								(Duplicate)								(Duplicate)			
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	500 U	-	-	-	-	-	-	-	-	-	1.0 U	200 U	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	30	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	0.2 J	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
1,2-Dichloroethane	ug/L	0.17	500 U	10 U	2.0 U	100 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	100 U	2.0 U	10 U	40 U	20 U	2.0 U	2.0 U	2.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	200 U	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	2500 U	R	5.0 U	R	5.0 U	5.0 U	10 U	R	10 U	10 U	5.0 U	1000 U	250 U	R	25 U	R	R	5.0 U	20 U	20 U
2-Hexanone	ug/L	3.8	2500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	5.0 U	1000 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	20 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	1900 J	25 U	5.0 U	250 U	5.0 U	5.0 U	10 U	10 U	R	R	5.0 U	1000 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	20 U	20 U
Acetone	ug/L	1400	11000	3000	R	R	R	R	10 U	R	R	R	5.0 U	1000 U	250 U	5.0 U	74 J	R	R	R	20 U	20 U
Benzene	ug/L	0.46	1100	12	3.4	23 J	4.9	3.5	0.4 J	0.49 J	1.0 U	1.0 U	1.0 U	200 U	65	5.9	5.0 U	24	10 U	4.0	0.9 J	0.9 J
Carbon tetrachloride	ug/L	0.46	500 U	10 U	2.0 U	100 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	100 U	2.0 U	10 U	40 U	20 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	ug/L	7.8	500 U	25 U	5.0 U	250 U	0.4 J	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
Chloroform (Trichloromethane)	ug/L	0.22	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	ug/L	3.6	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
Ethylbenzene	ug/L	1.5	22000	310	5.2	490	140	91	3.0	5.8	1.0 U	0.26 J	1.0 U	200 U	5600	320	170	4100	220	140	78	88
Isopropyl benzene	ug/L	45	180 J	7.7 J	1.7 J	250 U	4.6 J	4.0 J	2.6	4.4	5.0	5.0	1.0 U	200 U	22 J	2.5 J	6.4 J	28 J	50 U	130	210	230
Methyl tert butyl ether (MTBE)	ug/L	10	1400	5.0 J	2.0 J	37 J	2.2 J	2.0 J	1.8	1.8	1.5	1.5	1.5	-	250 U	5.0 U	25 U	100 U	50 U	0.3 J	2.0 U	2.0 U
Methylene chloride	ug/L	5	500 U	15 U	3.0 U	150 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	150 U	3.0 U	15 U	60 U	30 U	3.0 U	2.0 U	2.0 U
Tetrachloroethene	ug/L	1	500 U	5.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	200 U	50 U	1.0 U	5.0 U	20 U	10 U	1.0 U	2.0 U	2.0 U
Toluene	ug/L	110	180000	300	1.1 J	6200	390	610	0.3 J	1.0 U	1.0	1.1	1.0 U	237	39000	1500	730	17000	990	720	130	150
Trichloroethene	ug/L	0.28	500 U	5.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	50 U	1.0 U	5.0 U	20 U	10 U	1.0 U	2.0 U	2.0 U
Vinyl chloride	ug/L	0.019	500 U	25 U	5.0 U	250 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	200 U	250 U	5.0 U	25 U	100 U	50 U	5.0 U	2.0 U	2.0 U
Xylenes (total)	ug/L	19	35000	570	7.9	2800	270	190	2.5 J	13	7.3	8.3	2.0 U	200 U	9200	540	340	8000	450	410	300	340
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	N/A	68	7.2	6430	20.4	18.6	18.2	N/A	29.2	29.7	9.5	N/A	N/A	45	148	110	N/A	939	1795	2024
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	20 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	2.8 U	2.9 U	10 U	10 U	20 U	11 U	R	10 U	11 U	10 U	10 U	11 U
2,4-Dimethylphenol	ug/L	36	220	8.2 J	11 U	0.7 J	10 U	10 U	10 U	10 U	2.6 U	2.6 U	10 U	10 U	22	2.5 J	7.3 J	12	5.4 J	3.0 J	6.9 J	9.3 J
2,6-Dinitrotoluene	ug/L	0.049	4.0 U	2.2 U	2.2 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	0.60 U	0.62 U	2.0 U	10 U	4.0 U	2.2 U	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U
2-Methylnaphthalene	ug/L	3.6	20 UJ	2.6 J	11 U	10 U	10 U	0.3 J	0.4 J	10 U	3.2 U	3.3 U	10 UJ	16	20 U	11 U	10 U	10 U	11 U	0.4 J	1.2 J	1.2 J
2-Methylphenol	ug/L	93	55	2.8 J	11 U	10 U	10 U	10 U	10 U	10 U	1.7 U	1.7 U	10 U	10 U	91	9.3 J	36	110	33	24	10 U	4.9 J
4-Chloroaniline	ug/L	0.37	20 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	2.1 U	2.2 U	10 U	10 U	20 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U
4-Methylphenol	ug/L	190	310	3.4 J	11 U	10 U	10 U	10 U	10 U	10 U	1.6 U	1.7 U	10 U	-	52	15	5.6 J	21	12	2.0 J	0.8 J	1.2 J
Acetophenone	ug/L	190	7.4 J	11 U	11 U	10 U	10 U	10 U	10 U	10 U	4.4 U	4.5 U	10 U	-	15 J	11 U	1.4 J	9.8 J	2.2 J	0.8 J	10 U	2.4 J
Benzaldehyde	ug/L	19	15 J	11 U	11 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	1.4 UJ	1.4 UJ	10 U	-	20 UJ	5.8 J	10 UJ	10 UJ	11 UJ	10 UJ	10 UJ	11 UJ
Benzo(a)anthracene	ug/L	0.03	2.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.042 J	0.031 J	1.0 U	10 U	2.0 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Benzo(a)pyrene	ug/L	0.025	2.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.035 J	0.032 U	1.0 U	10 U	2.0 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	20 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	5.5 U	5.7 U	10 U	-	20 U	11 U	10 U	10 U	11 U	10 U	10 U	11 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	4.0 U	26 U	11 U	10 U	10 U	10 U	10 U	10 U	2.4 U	2.5 U	2.0 U	10 U	16 J	24 U	10 U	10 U	11 U	10 U	10 U	11 U
Dibenz(a,h)anthracene	ug/L	0.025	2.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	0.17 U	1.0 U	10 U	2.0 U	1.1 U	1.0 UJ	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Dibenzofuran	ug/L	0.79	20 UJ	11 U	11 U	10 U	10 U	10 U	10 U	10 U	3.7 U	3.8 U	10 UJ	10 U	20 U	11 U	10 U	10 U	0.3 J	10 U	0.3 J	0.3 J
Indeno(1,2,3-cd)pyrene	ug/L	0.25	2.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.12 U	0.13 U	1.0 U	10 U	2.0 U	1.1 U	1.0 UJ	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Naphthalene	ug/L	0.17	2.0 J	4.6 J	0.2 J	0.6 J	10 U	10 U	10 U	10 U	3.7 U	3.9 U	10 UJ	10 U	1.6 J	5.4 J	2.4 J	0.9 J	2.7 J	1.4 J	43	42
Pentachlorophenol	ug/L	0.041	40 U	44 U	32 UJ	32 U	30 U	30 U	30 U	31 U	0.14 U	0.15 U	20 U	25 U	80 U	43 U	31 U	32 U	32 U	32 U	32 U	33 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	8454	1937	136	417.1	261.9	251.5	82	N/A	9.5	N/A	75	N/A	9321	1484	868.3	8153.9	1197	869	1768	1921

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-3	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	
Sample Date:			11/7/2017	11/10/2005	8/22/2006	12/14/2006	8/5/2008	8/5/2008	2/24/2009	8/18/2009	3/2/2010	3/2/2010	11/6/2017	7/10/1998	6/1/2005	11/11/2005	8/22/2006	9/6/2006	12/14/2006	8/5/2008	2/24/2009	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)					(Duplicate)										(Duplicate)				
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	106	-	602	190 U	2420	2660	2730	3710	3230	2460	183	-	39300	-	811	12400	1850	342	1770	1700
Antimony	ug/L	0.78	1.5 J	-	12 U	10 U	8.4 U	8.4 U	10 U	10.0 U	10.0 U	10.0 U	2.0 U	-	12 U	-	12 U	10 U	10 U	8.4 U	10 U	10 U
Arsenic	ug/L	0.052	3.3	-	3.6 U	4.2 U	4.8 J	5.9 U	4.2 U	5.0 U	5.0 U	5.0 U	2.3	31	5.9	-	3.6 U	9.0	4.2 U	11.0	10.0	6.4
Arsenic (dissolved)	ug/L	0.052	-	-	3.6 U	4.2 U	-	-	-	-	-	-	-	-	-	-	3.6 U	5 U	4.2 U	-	-	-
Barium	ug/L	380	390	-	286	268	352	375	360	363	456	443	336	413	515	-	442	110 J	412	658	663	702
Barium (dissolved)	ug/L	380	-	-	296	276	-	-	-	-	-	-	-	-	-	-	485	70.0 J	418	-	-	-
Cadmium	ug/L	0.92	2.0 U	-	3.2 U	4 U	5 U	5 U	4 U	5.0 U	5.0 U	5.0 U	2.0 U	1.9	5 U	-	3.2 U	4 U	4 U	5 U	4 U	4 U
Chromium	ug/L	10	4.0 U	-	5.7 U	10 U	3.5 J	3.3 J	3.7 J	4.7 J	4.3 J	3.6 J	4.0 U	78	57.3	-	2.6 J	14.8 U	10 U	18 U	1.6 J	1.7 J
Chromium (dissolved)	ug/L	10	-	-	5.7 U	10 U	-	-	-	-	-	-	-	-	-	-	5.7 U	10 U	10 U	-	-	-
Cobalt	ug/L	0.6	4.0 U	-	4.0 J	50 U	100 U	100 U	2.6 J	50.0 U	3.2 J	2.8 J	1.6 J	-	31.8	-	24 U	7.5 J	50 U	100 U	50 U	50 U
Cobalt (dissolved)	ug/L	0.6	-	-	3.0 J	50 U	-	-	-	-	-	-	-	-	-	-	24 U	50 U	50 U	-	-	-
Iron	ug/L	1400	143000	-	31800	28700	33500	36500	28700	30300	31300	29400	22300	-	38100	-	25300	23100	20300	23000	28100	30000
Iron (dissolved)	ug/L	1400	-	-	32200	29100	-	-	-	-	-	-	-	-	-	-	26300	13400	19400	-	-	-
Lead	ug/L	15	1.2 U	-	3.7 U	3 U	7.2	7.8	2.8 J	5.0 U	7.0 U	6.4 U	1.2 U	25	20.4	-	3.7 U	6.9	3 U	2.3 J	3 U	3 U
Manganese	ug/L	43	17000	-	824	726	604	640	453	423	528	516	310	-	1240	-	1050	307	930	939	892	949
Manganese (dissolved)	ug/L	43	-	-	888	750	-	-	-	-	-	-	-	-	-	-	1140	291	946	-	-	-
Mercury	ug/L	0.063	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28	0.20 U	0.20 U	0.20 U	0.2 U	0.20 U	-	0.20 U	0.12 J	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-	-	-
Nickel	ug/L	39	3.7 J	-	3.1 J	40 U	65 U	4.3 J	4.2 J	6.4 J	40.0 U	40.0 U	1.4 J	-	30.5	-	3.5 J	8.9 J	40 U	65 U	40 U	40 U
Nickel (dissolved)	ug/L	39	-	-	25 U	40 U	-	-	-	-	-	-	-	-	-	-	25 U	40 U	40 U	-	-	-
Selenium	ug/L	10	10.0 U	-	4.4 U	5 U	5.7 U	5.7 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	5 U	5.1 U	-	4.4 U	5 U	5 U	5.7 U	5 U	5 U
Selenium (dissolved)	ug/L	10	-	-	4.4 U	5 U	-	-	-	-	-	-	-	-	-	-	4.4 U	5 U	5 U	-	-	-
Silver	ug/L	9.4	3.4	-	12 U	3.6 J	7.2 J	6.3 J	11.7	7.7 J	5.7 J	5.3 J	2.0 U	5 U	2.5	-	12 U	10 U	10 U	8.6 U	10 U	10 U
Thallium	ug/L	0.02	0.80 U	-	9.8 U	9.5 U	9.7 U	9.7 U	9.5 U	10.0 U	10.0 U	10.0 U	0.80 U	-	11 U	-	9.8 U	10 U	9.5 U	9.7 U	9.5 U	9.5 U
Vanadium	ug/L	8.6	2.3 J	-	160 U	50 U	4.4 J	5.2 J	50 U	6.8 J	5.9 J	4.7 J	4.0 U	-	95.4	-	160 U	18.7 J	50 U	16 U	50 U	50 U
Vanadium (dissolved)	ug/L	8.6	-	-	160 U	50 U	-	-	-	-	-	-	-	-	-	-	160 U	50 U	50 U	-	-	-
Notes:																						
U - Not detected at the associated reporting limit																						
J - Estimated concentration																						
UJ - Not detected; associated reporting limit is estimated																						
R - Rejected																						
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																						
OU - Operable Unit																						
"- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	
Sample Date:			8/18/2009	3/2/2010	11/6/2017	6/1/2005	11/15/2005	8/22/2006	12/14/2006	8/5/2008	2/25/2009	8/19/2009	8/19/2009	3/3/2010	11/6/2017	1/21/2010	6/2/2005	6/2/2005	11/14/2005	8/21/2006	8/23/2006	12/14/2006
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)										(Duplicate)									
DNREC-SIRS																						
Parameters	Units	Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	3.7 J	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
1,2-Dichlorobenzene	ug/L	30	2.0 U	2.0 U	5.0 U	0.6 J	5.0 U	5.0 U	5.0 U	0.6 J	1.2 J	0.67 J	0.70 J	0.88 J	1.0 U	-	0.7 J	0.8 J	5.0 U	5.0 U	-	5.0 U
1,2-Dichloroethane	ug/L	0.17	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	2.0 U	2.0 U	5.0 U	0.5 J	5.0 U	5.0 U	0.8 J	1.7 J	9.0	6.2	6.7	7.9	1.0 U	-	3.7 J	3.8 J	1.3 J	5.0 U	-	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	R	20 U	25 U	R	R	5.0 U	R	5.0 U	50 U	R	R	10 U	5.0 U	-	R	R	R	5.0 U	-	R
2-Hexanone	ug/L	3.8	20 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	10 U	10 U	10 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	20 U	R	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	10 U	10 U	R	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
Acetone	ug/L	1400	R	R	25 U	5.0 U	5.0 U	R	R	R	50 U	R	R	R	5.0 U	-	5.0 U	5.0 U	5.0 U	R	-	R
Benzene	ug/L	0.46	3.0	5.6	5.0 U	0.6 J	1.0 U	1.4	0.5 J	1.7	2.3 J	2.2 U	2.2 U	4.6	4.3	-	4.7	4.9	7.6	7.2	-	6.6
Carbon tetrachloride	ug/L	0.46	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U
Chlorobenzene	ug/L	7.8	2.0 U	2.0 U	5.0 U	45	49	110	76	330	1100	870	960	1300	6.4	-	810	710	250	60	-	49
Chloroform (Trichloromethane)	ug/L	0.22	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
cis-1,2-Dichloroethene	ug/L	3.6	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
Ethylbenzene	ug/L	1.5	1100	870	780	40	4.0 U	48	4.0 U	92	5.0 U	16 U	13 U	1.5	1.0 U	-	6.5	7.3	0.9 J	4.0 U	-	4.0 U
Isopropyl benzene	ug/L	45	93	360	250	5.0 U	5.0 U	0.4 J	5.0 U	0.5 J	5.0 U	1.9 U	1.9 U	4.3	2.6	-	2.5 J	2.7 J	7.8	2.8 J	-	0.9 J
Methyl tert butyl ether (MTBE)	ug/L	10	2.0 U	2.0 U	5.0 U	0.3 J	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	0.54 J	0.58 J	0.73 J	27	-	1.3 J	1.4 J	2.2 J	16	-	17
Methylene chloride	ug/L	5	2.0 U	2.0 U	5.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	3.0 U	3.0 U	3.0 U	3.0 U	-	3.0 U
Tetrachloroethene	ug/L	1	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
Toluene	ug/L	110	3400	4000	1200	280	0.4 J	23	5.0 U	670	5.0 U	20 U	16 U	2.1	1.0 U	-	40	42	0.9 J	5.0 U	-	5.0 U
Trichloroethene	ug/L	0.28	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
Vinyl chloride	ug/L	0.019	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
Xylenes (total)	ug/L	19	2200	1700	1800	64	5.0 U	56	5.0 U	150	15 U	36 U	29 U	2.5 J	2.0 U	-	9.1	9.6	1.6 J	5.0 U	-	5.0 U
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	N/A	2770	1120	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.3	97.5	N/A	59.8	65	116	316.6	N/A	226.3
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	10 U	2.8 U	10 U	10 U	10 U	R	10 U	10 U	10 U	11 U	11 U	2.8 U	10 U	10 U	10 U	17 U	10 U	11 U	-	10 U
2,4-Dimethylphenol	ug/L	36	10 U	2.6 U	3.4 J	0.4 J	10 U	10 U	10 U	10 U	10 U	11 U	11 U	2.5 U	10 U	10 U	10 U	17 U	5.6 J	11 U	-	10 U
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	0.60 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U	2.1 U	2.0 U	2.2 U	2.1 U	0.59 U	2.0 U	2.0 U	2.1 U	3.3 U	0.4 J	2.2 UJ	-	2.1 U
2-Methylnaphthalene	ug/L	3.6	10 U	3.2 U	3.9 J	10 U	10 U	10 U	10 U	10 U	10 U	11 U	11 U	3.1 U	10 UJ	10 U	10 U	17 U	10 U	11 UJ	-	10 U
2-Methylphenol	ug/L	93	9.7 J	1.7 U	3.5 J	2.1 J	10 U	10 U	10 U	10 U	10 U	11 U	11 U	1.7 U	10 U	10 U	0.2 J	17 U	10 U	11 U	-	10 U
4-Chloroaniline	ug/L	0.37	10 U	2.1 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	11 U	2.1 U	10 U	10 U	10 U	17 U	10 U	11 UJ	-	10 U
4-Methylphenol	ug/L	190	10	29	2.9 J	10 U	10 U	10 U	10 U	10 U	10 U	11 U	11 U	1.6 U	10 U	10 U	10 U	0.4 J	10 U	11 U	-	10 U
Acetophenone	ug/L	190	10 U	11	2.6 J	10 U	10 U	10 U	10 U	10 U	10 U	11 U	11 U	4.3 U	10 U	10 U	10 U	17 U	10 U	11 UJ	-	10 U
Benzaldehyde	ug/L	19	10 U	5.4 J	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	11 U	11 U	1.3 UJ	10 U	10 UJ	10 UJ	17 UJ	10 UJ	11 UJ	-	10 UJ
Benzo(a)anthracene	ug/L	0.03	1.0 U	0.020 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	0.020 U	1.0 U	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U
Benzo(a)pyrene	ug/L	0.025	1.0 U	0.031 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	0.030 U	1.0 U	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	5.5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	11 U	5.4 U	10 U	10 U	10 U	17 U	10 U	11 UJ	-	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	2.4 U	2.1 U	12	10 U	10 U	10 U	10 U	10 U	11 U	11 U	2.4 U	2.0 U	10 U	10 U	17 U	10 U	11 UJ	-	10 U
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	0.16 U	1.0 U	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U
Dibenzofuran	ug/L	0.79	10 U	3.7 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	11 U	11 U	3.6 U	1.3 J	10 U	10 U	17 U	0.3 J	11 UJ	-	0.3 J
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	0.12 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	0.12 U	1.0 U	1.0 U	1.0 U	1.7 U	1.0 U	1.1 UJ	-	1.0 U
Naphthalene	ug/L	0.17	10 U	29	3.6 J	10 U	10 U	10 U	10 U	10 U	0.4 J	11 U	11 U	3.7 U	2.7 J	140 J	0.8 J	0.8 J	0.4 J	0.5 J	-	5.2 J
Pentachlorophenol	ug/L	0.041	30 U	0.14 U	21 U	40 U	40 U	31 U	31 U	32 U	31 UJ	33 U	32 U	0.14 U	20 U	30 U	42 U	67 U	41 U	33 UJ	-	31 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	N/A	4525	1283.8	779	95	225.9	479.2	250.7	591.8	N/A	N/A	406.6	116.2	483	517.5	471	329.4	84.5	N/A	472

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	
Sample Date:			8/18/2009	3/2/2010	11/6/2017	6/1/2005	11/15/2005	8/22/2006	12/14/2006	8/5/2008	2/25/2009	8/19/2009	8/19/2009	3/3/2010	11/6/2017	1/21/2010	6/2/2005	6/2/2005	11/14/2005	8/21/2006	8/23/2006	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)										(Duplicate)									
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	9250	1290	139	5410	-	626	1280	3710	2520	7300 J	2380 J	1340	411	-	7060	2310	-	-	257	293
Antimony	ug/L	0.78	10.0 U	10.0 U	2.0 U	12 U	-	12 U	10 U	8.4 U	10 U	10.0 U	10.0 U	10.0 U	2.0 U	-	12 U	12 U	-	-	12 U	10 U
Arsenic	ug/L	0.052	21.5	13.2	5.3	6.4 U	-	8.3	9.9	15.0	11.3	16.2	14.0	13.9	26.9	-	6.4 U	6.4 U	-	-	3.6 U	4.2 U
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	7.3	10.1	-	-	-	-	-	-	-	-	-	-	-	3.6 U	4.2 U
Barium	ug/L	380	644	615	248	258	-	269	230	313	368	424	348	463	504	-	276	285	-	-	296	302
Barium (dissolved)	ug/L	380	-	-	-	-	-	264	240	-	-	-	-	-	-	-	-	-	-	-	305	305
Cadmium	ug/L	0.92	5.0 U	5.0 U	2.0 U	5 U	-	3.2 U	4 U	5 U	4 U	5.0 U	5.0 U	5.0 U	2.0 U	-	5 U	5 U	-	-	3.2 U	4 U
Chromium	ug/L	10	9.0 J	10.0 U	4.0 U	10.9	-	5.7 U	10 U	4.9 J	3.6 J	9.0 J	10.0 U	10.0 U	4.0 U	-	11.1	3.0	-	-	5.7 U	10 U
Chromium (dissolved)	ug/L	10	-	-	-	-	-	5.7 U	10 U	-	-	-	-	-	-	-	-	-	-	-	5.7 U	10 U
Cobalt	ug/L	0.6	6.4 J	3.1 J	4.0 U	22.2	-	20.8 J	50 U	17.3 J	17.5 J	17.0 J	13.5 J	13.1 J	2.5 J	-	24.5	21.7	-	-	22.2 J	21.6 J
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	20.2 J	50 U	-	-	-	-	-	-	-	-	-	-	-	22.4 J	21.4 J
Iron	ug/L	1400	31400	28400	13200	39000	-	57100	51400	62500	79200	86200	72500	84800	69200	-	41300	43700	-	-	54600	56700
Iron (dissolved)	ug/L	1400	-	-	-	-	-	56200	54100	-	-	-	-	-	-	-	-	-	-	-	56600	56600
Lead	ug/L	15	5.0 U	3.1 J	1.2 U	3 U	-	3.7 U	3 U	13.3	3.0 J	5.0 U	5.0 U	5.0 U	1.2 U	-	4.0	3 U	-	-	3.7 U	3 U
Manganese	ug/L	43	758	933	247	2130	-	2250	1970	2380	2210	2190	1900	2410	1380	-	2120	2270	-	-	1980	1980
Manganese (dissolved)	ug/L	43	-	-	-	-	-	2130	2060	-	-	-	-	-	-	-	-	-	-	-	2050	1990
Mercury	ug/L	0.063	0.28	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.51	0.43	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U
Nickel	ug/L	39	6.9 J	40.0 U	4.0 U	6.9	-	25 U	40 U	65 U	5.1 J	8.7 J	40.0 U	40.0 U	4.0 U	-	7.3	40 U	-	-	25 U	40 U
Nickel (dissolved)	ug/L	39	-	-	-	-	-	25 U	40 U	-	-	-	-	-	-	-	-	-	-	-	25 U	4.6 J
Selenium	ug/L	10	10.0 U	10.0 U	10.0 U	5.1 U	-	4.4 U	5 U	5.7 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	-	5.1 U	5.1 U	-	-	4.4 U	5 U
Selenium (dissolved)	ug/L	10	-	-	-	-	-	4.4 U	5 U	-	-	-	-	-	-	-	-	-	-	-	4.4 U	5 U
Silver	ug/L	9.4	1.5 J	3.4 J	2.0 U	15 U	-	12 U	10 U	1.3 J	2.7 J	8.6 J	1.1 J	2.9 J	2.0 U	-	15 U	15 U	-	-	12 U	10 U
Thallium	ug/L	0.02	10.0 U	10.0 U	0.80 U	11 U	-	9.8 U	9.5 U	9.7 U	9.5 U	10.0 U	10.0 U	10.0 U	0.80 U	-	11 U	11 U	-	-	9.8 U	9.5 U
Vanadium	ug/L	8.6	12.2 J	2.4 J	4.0 U	19.4	-	160 U	50 U	8.8 J	4.9 J	17.6 J	5.8 J	3.7 J	4.0 U	-	18.1	4.8	-	-	160 U	50 U
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	160 U	50 U	-	-	-	-	-	-	-	-	-	-	-	160 U	50 U
Notes: U - Not detected at the associated reporting limit J - Estimated concentration UJ - Not detected; associated reporting limit is estimated R - Rejected DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section OU - Operable Unit "- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	
Sample Date:			8/4/2008	11/20/2008	2/24/2009	5/8/2009	5/8/2009	8/18/2009	11/12/2009	11/12/2009	3/1/2010	5/18/2010	11/6/2017	6/26/2018	6/2/2005	6/2/2005	11/14/2005	8/21/2006	12/12/2006	12/12/2006	8/4/2008	11/20/2008
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)				(Duplicate)				(Duplicate)				(Duplicate)				(Duplicate)			
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-
1,2-Dichlorobenzene	ug/L	30	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	5.0 U	0.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-
1,2-Dichloroethane	ug/L	0.17	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	5.0 U	0.5 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	5.0 U	5.0 U	10 U	10 U	10 U	R	10 UJ	10 UJ	10 U	0.82 U	5.0 U	5.0 U	R	R	R	5.0 U	R	R	5.0 U	5.0 U
2-Hexanone	ug/L	3.8	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.55 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	R	0.68 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	ug/L	1400	R	5.0 U	10 U	10 UJ	10 UJ	R	R	R	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	R	R	R	5.0 U	5.0 U
Benzene	ug/L	0.46	1.2	3.9	2.9	1.9	2.1	3.7	12	12	2.2	4.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	0.46	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	ug/L	7.8	4.6 J	3.3 J	2.9	1.6	1.7	2.0	2.8	2.8	1.7	2.9	1.0 U	1.0 U	1.3 J	0.6 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	0.22	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	3.6	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.5	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	0.43 J	0.80 J	0.79 J	0.31 J	0.33 J	1.0 U	1.0 U	2.8 J	1.0 J	8.0	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Isopropyl benzene	ug/L	45	0.6 J	-	5.9	2.9	3.2	7.1	24	24	3.3	6.0	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-
Methyl tert butyl ether (MTBE)	ug/L	10	4.5 J	-	6.3	5.0	5.3	7.1	8.9	9.1	3.1	4.6	0.33 J	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.4 J	0.4 J	0.2 J
Methylene chloride	ug/L	5	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Tetrachloroethene	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	110	5.0 U	0.4 J	1.0 U	1.0 U	1.0 U	0.30 J	0.25 J	0.28 J	0.58 J	0.090 U	1.0 U	1.0 U	23 J	9.6 UJ	12	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	0.28	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.18 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.019	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	ug/L	19	5.0 U	5.0 U	0.5 J	3.0 U	3.0 U	18	17	17	0.82 J	1.2 J	2.0 U	2.0 U	3.8 J	1.3 J	11	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	180.2	666	634.8	N/A	N/A	N/A	1237	1248	789	887	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	2.8 U	-	10 U	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	2.6 U	-	10 U	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U	2.0 U	0.60 U	0.60 U	2.0 U	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	ug/L	3.6	10 U	0.4 J	10 U	10 U	10 U	11 U	10 U	10 U	3.2 U	3.1 U	10 UJ	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
2-Methylphenol	ug/L	93	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	1.7 U	-	10 U	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	2.1 U	2.1 UJ	10 U	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
4-Methylphenol	ug/L	190	10 U	-	10 U	10 U	10 U	11 U	10 U	10 U	1.6 U	-	10 U	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	-
Acetophenone	ug/L	190	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	4.4 U	4.3 U	10 U	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
Benzaldehyde	ug/L	19	10 UJ	10 UJ	10 UJ	10 U	10 U	11 U	10 UJ	10 UJ	1.4 UJ	1.4 UJ	10 U	10 U	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	0.020 U	0.020 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	0.031 U	0.030 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	5.5 U	5.5 U	10 U	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	10 U	10 UJ	10 UJ	11 U	10 U	10 U	2.4 U	2.4 U	2.0 U	2.0 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	0.16 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	10 U	0.3 J	10 U	10 U	10 U	11 U	10 U	10 U	3.7 U	3.6 U	10 UJ	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	0.12 U	0.12 U	1.0 U	2.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	0.17	10 U	43	32	10 U	18	83	220	220	100 J	110	10 UJ	10 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	30 U	31 U	32 U	30 U	30 U	32 U	31 U	31 U	0.14 U	-	20 U	20 U	41 U	40 U	43 U	32 UJ	32 U	31 U	30 U	30 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	290.9	467	500	N/A	N/A	N/A	1039	1011	479	373	N/A	N/A	11	12	N/A	N/A	17	20	N/A	N/A

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	
Sample Date:			8/4/2008	11/20/2008	2/24/2009	5/8/2009	5/8/2009	8/18/2009	11/12/2009	11/12/2009	3/1/2010	5/18/2010	11/6/2017	6/26/2018	6/2/2005	6/2/2005	11/14/2005	8/21/2006	12/12/2006	12/12/2006	8/4/2008	11/20/2008
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)				(Duplicate)				(Duplicate)				(Duplicate)				(Duplicate)			
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	387	946	477	1180	1050	6530	2530 J	2410 J	1050	5190 J	214	845	2860	1930	-	395	541	328 U	1000	1460
Antimony	ug/L	0.78	8.4 U	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	2.0 U	2.0 U	12 U	12 U	-	10 U	10 U	10 U	8.4 U	6.7 J
Arsenic	ug/L	0.052	5.9 U	4.2 U	4.2 U	5.0 U	5.0 U	5.0 U	3.9 J	4.4 J	5.0 U	3.8 U	6.1	7.9	6.4 U	6.4 U	-	5 U	4.2 U	4.2 U	5.9 U	4.2 U
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5 U	4.2 U	4.2 U	-	-
Barium	ug/L	380	410	529	462	491	465	614	613	618	427	474	184	170	193	180	-	172 J	163 J	158 J	284	287
Barium (dissolved)	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170 J	174 J	176 J	-	-
Cadmium	ug/L	0.92	0.59 J	4 U	4 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.92 U	2.0 U	2.0 U	5 U	5 U	-	4 U	4 U	4 U	5 U	4 U
Chromium	ug/L	10	18 U	10 U	10 U	10.0 U	10.0 U	5.8 J	10.0 U	10.0 U	10.0 U	3.2 J	4.0 U	1.3 J	6.1	5.1	-	10 U	10 U	10 U	3.4 J	3.3 J
Chromium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-
Cobalt	ug/L	0.6	19.0 J	17.8 J	19.5 J	17.8 J	16.1 J	21.5 J	21.8 J	21.4 J	18.1 J	20.3 J	5.4	10.9	4.2	3.6	-	50 U	50 U	50 U	100 U	50 U
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50 U	50 U	50 U	-	-
Iron	ug/L	1400	67800	72700	75500	67100	63800	87500	85100	85100	62000	74500	27000	34700	12200	8170	-	1450	1250	1280	3940	5030
Iron (dissolved)	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150 U	150 U	150 U	-	-
Lead	ug/L	15	13.7	3 U	3 U	3.4 J	3.4 J	5.0 U	5.0 U	5.0 U	5.0 U	7.0	1.2 U	0.74 J	3 U	3 U	-	3.2 U	3 U	3 U	2.4 U	3 U
Manganese	ug/L	43	1900	1870	1990	1710	1620	2070	1980	1980	1690	1990	524	598	276	236	-	222	238	227	682	627
Manganese (dissolved)	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	211	258	285	-	-
Mercury	ug/L	0.063	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.33	0.20 U	0.20 U	0.20 U	0.18 U	0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.28	0.29
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-	-
Nickel	ug/L	39	65 U	40 U	40 U	40.0 U	40.0 U	5.5 J	40.0 U	40.0 U	40.0 U	5.0 J	4.0 U	1.6 J	4.8	40 U	-	40 U	3.2 J	3.7 J	65 U	4.6 J
Nickel (dissolved)	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40 U	2.6 J	40 U	-	-
Selenium	ug/L	10	5.7 U	5 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	4.8 U	10.0 U	10.0 U	5.1 U	5.1 U	-	5 U	5 U	5 U	5.7 U	5 U
Selenium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5 U	5 U	5 U	-	-
Silver	ug/L	9.4	8.6 U	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	1.6 J	0.97 U	2.0 U	2.0 U	15 U	15 U	-	10 U	10 U	10 U	8.6 U	10 U
Thallium	ug/L	0.02	9.7 U	9.5 U	9.5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	0.80 U	0.80 U	11 U	11 U	-	10 U	9.5 U	9.5 U	9.7 U	9.5 U
Vanadium	ug/L	8.6	16 U	50 U	50 U	50.0 U	50.0 U	8.5 J	3.0 J	3.1 J	50.0 U	5.8 J	4.0 U	1.2 J	5.5	3.9	-	50 U	50 U	50 U	1.7 J	50 U
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50 U	50 U	50 U	-	-
Notes:																						
U - Not detected at the associated reporting limit																						
J - Estimated concentration																						
UJ - Not detected; associated reporting limit is estimated																						
R - Rejected																						
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																						
OU - Operable Unit																						
"- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2		
Sample Location:			MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10		
Sample Date:			11/20/2008	2/23/2009	5/8/2009	8/17/2009	11/12/2009	3/1/2010	5/18/2010	5/18/2010	11/4/2017	6/26/2018	6/1/2005	11/11/2005	8/23/2006	12/14/2006	8/5/2008	2/24/2009	8/18/2009	3/2/2010	10/11/2012	11/6/2017	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			(Duplicate)							(Duplicate)													
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																					
Volatile Organic Compounds																							
1,1-Dichloroethane	ug/L	2.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
1,2,4-Trichlorobenzene	ug/L	0.4	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 U	0.44 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	5.0	
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
1,2-Dichlorobenzene	ug/L	30	-	0.2 J	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
1,2-Dichloroethane	ug/L	0.17	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	0.24 U	1.0 U	1.0 U	40 U	10 U	10 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	ug/L	0.48	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	0.27 J	1.0 U	-	2.0 U	
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	5.0 U	10 U	10 U	R	10 UJ	10 U	0.82 U	0.82 U	5.0 U	5.0 U	100 U	R	25 U	R	5.0 U	10 U	R	10 U	-	10 U	
2-Hexanone	ug/L	3.8	5.0 U	10 U	10 U	10 U	10 U	10 U	0.55 U	0.55 U	5.0 U	5.0 U	100 U	25 U	25 U	25 U	5.0 U	10 U	10 U	10 U	-	10 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	5.0 U	10 U	10 U	10 U	10 U	R	0.68 U	0.68 U	5.0 U	5.0 U	100 U	25 U	25 U	25 U	5.0 U	10 U	10 U	R	-	10 U	
Acetone	ug/L	1400	5.0 U	10 U	10 UJ	R	R	R	2.5 U	2.5 U	7.1 U	5.0 U	100 U	25 U	R	R	R	10 U	R	R	-	10 U	
Benzene	ug/L	0.46	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	1.0 U	1.0 U	270	68	27	20	4.2	2.1	12	8.3	-	3.6	
Carbon tetrachloride	ug/L	0.46	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	1.0 U	1.0 U	40 U	10 U	10 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
Chlorobenzene	ug/L	7.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	0.51 J	1.0 U	-	2.0 U	
Chloroform (Trichloromethane)	ug/L	0.22	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
cis-1,2-Dichloroethene	ug/L	3.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
Ethylbenzene	ug/L	1.5	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	1.0 U	3000	2400	340	170	54	69	490	290	-	280	
Isopropyl benzene	ug/L	45	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	1.0 U	100	79	87	75	130	95	85	100	-	63	
Methyl tert butyl ether (MTBE)	ug/L	10	-	1.0 U	1.0 U	1.0 U	1.0 U	0.18 J	0.44 J	0.40 J	1.0 U	1.0 U	100 U	25 U	25 UJ	25 U	0.5 J	0.5 J	0.28 J	1.0 U	-	0.28 J	
Methylene chloride	ug/L	5	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	1.0 U	1.0 U	60 U	15 U	15 U	15 U	3.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
Tetrachloroethene	ug/L	1	1.0 U	1.0 U	1.0 U	0.32 J	0.53 J	0.41 J	0.51 J	0.41 J	0.30 J	0.68 J	20 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
Toluene	ug/L	110	5.0 U	0.5 J	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	1.0 U	1.0 U	15000	5100	440	170	57	31	270	41	-	600	
Trichloroethene	ug/L	0.28	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.18 U	0.18 U	1.0 U	1.0 U	20 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
Vinyl chloride	ug/L	0.019	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	1.0 U	1.0 U	100 U	25 U	25 U	25 U	5.0 U	1.0 U	1.0 U	1.0 U	-	2.0 U	
Xylenes (total)	ug/L	19	5.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.43 U	0.43 U	2.0 U	2.0 U	9500	4000	1400	860	300	320	1300	920	-	850	
Volatile Organic Compounds - Tentatively Identified Compounds																							
Total VOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	89	122	62	238.8	209.5	N/A	173.1	N/A	99
Semi-volatile Organic Compounds																							
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	10 U	10 U	5.6 U	2.8 U	-	-	10 U	10 U	11 U	21 U	R	11 U	10 U	10 U	11 U	2.9 U	-	10 U	
2,4-Dimethylphenol	ug/L	36	10 U	10 U	10 U	10 U	5.6 U	2.6 U	-	-	10 U	10 U	38	10 J	2.1 J	4.9 J	0.5 J	10 U	11 U	4.8 J	-	11	
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	2.0 U	2.0 U	1.1 U	0.60 U	0.61 U	0.61 U	2.0 U	2.0 U	2.2 U	4.2 U	2.2 U	2.2 U	2.0 U	2.1 U	2.1 U	0.62 U	-	2.1 U	
2-Methylnaphthalene	ug/L	3.6	10 U	10 U	10 U	10 U	5.6 U	3.2 U	3.2 U	3.2 U	10 U	10 U	3.5 J	1.9 J	2.6 J	2.6 J	1.6 J	3.1 J	11 U	3.7 J	-	3.7 J	
2-Methylphenol	ug/L	93	10 U	10 U	10 U	10 U	5.6 U	1.7 U	-	-	10 U	10 U	79	16 J	0.6 J	1.4 J	10 U	10 U	11 U	1.7 U	-	5.7 J	
4-Chloroaniline	ug/L	0.37	10 U	10 U	10 U	10 U	5.6 U	2.1 U	2.2 UJ	2.2 UJ	10 U	10 U	11 U	1.7 J	11 U	11 U	10 U	10 U	11 U	2.2 U	-	10 U	
4-Methylphenol	ug/L	190	-	10 U	10 U	10 U	5.6 U	1.6 U	-	-	10 U	10 U	20	22	11 U	1.4 J	10 U	10 U	11 U	1.7 U	-	3.3 J	
Acetophenone	ug/L	190	10 U	10 U	10 U	10 U	5.6 U	4.4 U	4.5 U	4.5 U	10 U	10 U	18	8.7 J	11 U	2.6 J	10 U	10 U	11 U	4.5 U	-	3.0 J	
Benzaldehyde	ug/L	19	10 UJ	10 UJ	10 U	10 U	5.6 UJ	1.4 UJ	1.4 UJ	1.4 UJ	10 U	10 U	11 UJ	13 J	11 UJ	11 UJ	10 UJ	10 UJ	11 U	1.4 UJ	-	10 U	
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.0 U	1.0 U	0.56 U	0.020 U	0.021 U	0.021 U	1.0 U	1.0 U	1.1 U	2.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	0.021 U	-	1.0 U	
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	0.56 U	0.031 U	0.031 U	0.031 U	1.0 U	1.0 U	1.1 U	2.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	0.032 U	-	1.0 U	
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	10 U	10 U	5.6 U	5.5 U	5.6 U	5.6 U	10 U	10 U	11 U	21 U	11 U	11 U	10 U	10 U	11 U	5.7 U	-	10 U	
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	10 UJ	10 U	5.6 U	2.4 U	2.5 U	2.5 U	2.0 U	2.0 U	2.4 J	24 U	11 U	11 U	10 U	10 U	11 U	2.5 U	-	2.1 U	
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	0.56 UJ	0.16 U	0.17 U	0.17 U	1.0 U	1.0 UJ	1.1 U	2.1 U	1.1 UJ	1.1 U	1.0 U	1.0 U	1.1 U	0.17 U	-	1.0 U	
Dibenzofuran	ug/L	0.79	10 U	10 U	10 U	10 U	5.6 U	3.7 U	3.7 U	3.7 U	10 U	10 U	11 U	21 U	11 U	11 U	10 U	10 U	11 U	3.8 U	-	10 UJ	
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	1.0 U	1.0 U	0.56 U	0.12 U	0.12 U	0.12 U	1.0 U	2.0 U	1.1 U	2.1 U	1.1 UJ	1.1 U	1.0 U	1.0 U	1.1 U	0.13 U	-	1.0 U	
Naphthalene	ug/L	0.17	10 U	10 U	10 U	10 U	5.6 U	3.7 U	3.8 U	3.8 U	10 U	10 U	8.6 J	5.1 J	6.2 J	17	3.3 J	3.4 J	11 U	3.9 U	-	2.7 J	
Pentachlorophenol	ug/L	0.041	30 U	30 U	30 U	31 U	17 U	0.14 U	-	-	20 U	20 U	43 U	84 U	33 U	32 U	31 U	32 U	32 U	0.15 U	-	21 U	
Semi-volatile Organic Compounds - Tentatively Identified Compounds																							
Total SVOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4344	4067	1292	949	108.6	439.1	N/A	481.7	N/A	184.4

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2
Sample Location:			MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
Sample Date:			11/20/2008	2/23/2009	5/8/2009	8/17/2009	11/12/2009	3/1/2010	5/18/2010	5/18/2010	11/4/2017	6/26/2018	6/1/2005	11/11/2005	8/23/2006	12/14/2006	8/5/2008	2/24/2009	8/18/2009	3/2/2010	10/11/2012	11/6/2017
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)							(Duplicate)												
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	1470	3670	6220	1390	6460 J	6940	5410 J	7580 J	233	344	77700	-	5500	3400	1330	1760	5920	859	-	178
Antimony	ug/L	0.78	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	4.6 U	2.0 U	2.0 U	12 U	-	12 U	10 U	8.4 U	10 U	10.0 U	10.0 U	-	2.0 U
Arsenic	ug/L	0.052	4.2 U	4.2 U	5.0 U	5.0 U	5.0 U	5.0 U	3.8 U	3.8 U	2.0 U	2.0 U	4.6	-	3.6 U	4.2 U	6.4	4.2 U	5.0 U	5.0 U	-	8.9
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	3.6 U	4.2 U	-	-	-	-	-	-
Barium	ug/L	380	287	275	278	220	283	297	222	250	87.9	74.1	555	-	449	385	452	428	431	464	-	569
Barium (dissolved)	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	431	384	-	-	-	-	-	-
Cadmium	ug/L	0.92	4 U	4 U	5.0 U	5.0 U	5.0 U	5.0 U	0.92 U	0.92 U	2.0 U	2.0 U	5 U	-	3.2 U	4 U	5 U	4 U	5.0 U	5.0 U	-	2.0 U
Chromium	ug/L	10	3.6 J	6.9 J	10.6	10.0 U	9.8 J	11.3	8.3 J	11.4	5.3	4.0	145	-	9.0 J	10 U	18 U	2.6 J	8.4 J	10.0 U	-	4.0 U
Chromium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	5.7 U	10 U	-	-	-	-	-	-
Cobalt	ug/L	0.6	50 U	3.9 J	4.8 J	50.0 U	4.3 J	5.9 J	3.9 J	5.7 J	4.0 U	4.0 U	70.1	-	7.9 J	50 U	100 U	5.4 J	9.2 J	3.8 J	-	13.2
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	4.2 J	50 U	-	-	-	-	-	-
Iron	ug/L	1400	5570	14300	22900	4220	23100	25100	19000	26600	704	1540	59700	-	31900	24400	26100	27300	26500	26000	-	19000
Iron (dissolved)	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	31200	23000	-	-	-	-	-	-
Lead	ug/L	15	3 U	3 U	4.5 J	5.0 U	5.0 U	8.1 U	7.6	9.5	1.2 U	0.84 J	30.2	-	3.8 J	3.9	4.2 J	3 U	5.0 U	5.0 U	5.0 U	0.70 J
Manganese	ug/L	43	619	607	531	536	386	435	296	278	117	93.8	1760	-	1200	1290	1400	1400	1320	1570	-	513
Manganese (dissolved)	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	1260	1410	-	-	-	-	-	-
Mercury	ug/L	0.063	0.28	0.38	0.40	0.44	0.36	0.40	0.65	0.72	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.50	0.20 U	-	0.20 U
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-
Nickel	ug/L	39	4.3 J	6.2 J	6.9 J	40.0 U	5.7 J	7.1 J	5.5 J	7.3 J	5.6 U	1.7 J	66.2	-	6.5 J	40 U	65 U	2.7 J	6.5 J	40.0 U	-	2.5 J
Nickel (dissolved)	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	25 U	40 U	-	-	-	-	-	-
Selenium	ug/L	10	5 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	4.8 U	4.8 U	10.0 U	10.0 U	5.1 U	-	4.4 U	5 U	5.7 U	5 U	10.0 U	10.0 U	-	10.0 U
Selenium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	4.4 U	5 U	-	-	-	-	-	-
Silver	ug/L	9.4	10 U	10 U	1.7 J	10.0 U	1.1 J	1.9 J	1.5 J	1.1 J	2.0 U	2.0 U	5.8	-	12 U	10 U	8.6 U	10 U	10.0 U	1.8 J	-	2.0 U
Thallium	ug/L	0.02	9.5 U	9.5 U	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	4.6 U	0.80 U	0.80 U	11 U	-	9.8 U	9.5 U	9.7 U	9.5 U	10.0 U	10.0 U	-	0.80 U
Vanadium	ug/L	8.6	50 U	50 U	50.0 U	50.0 U	10.1 J	11.8 J	8.4 J	12.4 J	4.0 U	4.0 U	199	-	13.2 J	5.9 J	2.4 J	50 U	11.8 J	2.5 J	-	4.0 U
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	160 U	50 U	-	-	-	-	-	-
Notes:																						
U - Not detected at the associated reporting limit																						
J - Estimated concentration																						
UJ - Not detected; associated reporting limit is estimated																						
R - Rejected																						
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																						
OU - Operable Unit																						
"- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-2 MW-11 11/10/2005	OU-2 MW-11 8/22/2006	OU-2 MW-11 12/15/2006	OU-2 MW-11 8/5/2008	OU-2 MW-11 2/25/2009	OU-2 MW-11 8/19/2009	OU-2 MW-11 3/3/2010	OU-2 MW-11 11/7/2011	OU-2 MW-11 10/11/2012	OU-2 MW-11 11/7/2017	OU-2 MW-11R 11/10/2005	OU-2 MW-11R 8/21/2006	OU-2 MW-11R 12/14/2006	OU-2 MW-11R 8/4/2008	OU-2 MW-11R 2/24/2009	OU-2 MW-11R 8/17/2009	OU-2 MW-11R 3/1/2010	OU-2 MW-11R 11/4/2017	OU-2 MW-12 11/10/2005	OU-2 MW-12 8/22/2006
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	25 U	50 U	500 U	25 U	10 U	2.0 U	1.0 U	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	25 U
1,2,4-Trichlorobenzene	ug/L	0.4	25 U	50 U	500 U	25 U	10 U	2.0 U	1.0 U	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	25 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	1.0 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	25 U	50 U	500 U	25 U	10 U	2.0 U	1.0 U	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	25 U
1,2-Dichlorobenzene	ug/L	30	25 U	50 U	500 U	25 U	10 U	2.0 U	1.0 U	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	25 U
1,2-Dichloroethane	ug/L	0.17	10 U	20 U	200 U	10 U	10 U	2.0 U	1.0 U	-	-	0.78 J	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	25 U	50 U	500 U	25 U	10 U	2.0 U	1.0 U	-	-	1.0 U	5.0 U	0.6 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	25 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	170 J	180 J	R	9.6 J	100 U	7.2 J	5.7 J	-	-	5.0 U	R	5.0 U	R	5.0 U	10 U	R	10 U	5.0 U	R	R
2-Hexanone	ug/L	3.8	25 U	50 U	500 U	25 U	100 U	20 U	10 U	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	5.0 U	5.0 U	25 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	21 J	50 U	500 U	25 U	100 U	1.6 J	1.2 J	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	R	5.0 U	5.0 U	25 U
Acetone	ug/L	1400	300	530 J	R	39 J	100 U	24 J	10 J	-	-	5.6 U	5.0 U	R	R	R	10 U	R	R	5.0 U	5.0 U	R
Benzene	ug/L	0.46	300	480	480	330	430	260	330	-	-	26	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	25	350
Carbon tetrachloride	ug/L	0.46	10 U	20 U	200 U	10 U	10 U	2.0 U	1.0 U	-	-	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
Chlorobenzene	ug/L	7.8	25 U	50 U	500 U	25 U	10 U	2.0 U	0.65 J	-	-	1.0 U	5.0 U	1.4 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	25 U
Chloroform (Trichloromethane)	ug/L	0.22	25 U	50 U	500 U	25 U	10 U	2.0 U	1.0 U	-	-	1.0 U	5.0 U	5.0 U	5.0 U	3.9 J	3.8	5.3	1.5	1.0 U	5.0 U	25 U
cis-1,2-Dichloroethene	ug/L	3.6	25 U	50 U	500 U	0.9 J	10 U	1.0 J	1.0 U	-	-	0.33 J	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.6 J	7.1 J
Ethylbenzene	ug/L	1.5	3800	9700	8100	3100	3600	1500	2200	-	-	270	1.3 J	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	150	1600
Isopropyl benzene	ug/L	45	2.0 J	50 U	500 U	4.9 J	5.6 J	4.0	7.2	-	-	8.1	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4	97
Methyl tert butyl ether (MTBE)	ug/L	10	480	650	640	530	450	440	320	-	-	49	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.4	43
Methylene chloride	ug/L	5	15 U	30 U	300 U	15 U	10 U	2.0 U	1.0 U	-	-	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	15 U
Tetrachloroethene	ug/L	1	5.0 U	10 U	100 U	5.0 U	10 U	2.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.4 J	0.31 J	1.0 U	0.57 J	1.0 U	5.0 U
Toluene	ug/L	110	3100	6500	3600	690	590	200	1200	4.4	37	48	6.3	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.6 J	3.4 J
Trichloroethene	ug/L	0.28	5.0 U	10 U	100 U	5.0 U	10 U	2.0 U	1.0 U	-	-	1.0 U	1.0 U	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Vinyl chloride	ug/L	0.019	25 U	50 U	500 U	25 U	10 U	2.0 U	1.0 U	-	-	0.25 J	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	25 U
Xylenes (total)	ug/L	19	4100	10000	9100	7000	7500	4900	5400	-	-	360	6.3	5.0 U	5.0 U	5.0 U	3.0 U	3.0 U	3.0 U	2.0 U	380	8800
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	720	N/A	N/A	N/A	N/A	N/A	57.2	N/A	N/A	8.5	5.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	185	290
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	100 U	R	100 U	21 U	52 U	10 U	2.8 U	-	-	10 U	10 U	11 U	10 U	10 U	10 U	11 U	2.8 U	10 U	11 U	10 U
2,4-Dimethylphenol	ug/L	36	11 J	61 J	57 J	22	36 J	28	30	-	-	5.1 J	10 U	11 U	10 U	10 U	10 U	11 U	2.6 U	10 U	21	82
2,6-Dinitrotoluene	ug/L	0.049	21 U	41 U	21 U	4.2 U	10 U	2.0 U	0.59 U	-	-	2.0 U	2.1 U	2.2 U	2.0 U	2.0 U	2.0 U	2.1 U	0.60 U	2.0 U	2.2 U	2.1 U
2-Methylnaphthalene	ug/L	3.6	100 U	210 U	100 U	21 U	52 U	10 U	3.1 U	-	-	10 UJ	10 U	11 U	10 U	10 U	10 U	11 U	3.2 U	10 U	11 U	1.0 J
2-Methylphenol	ug/L	93	3.7 J	210 U	100 U	21 U	52 U	10 U	2.5 J	-	-	10 U	10 U	11 U	10 U	10 U	10 U	11 U	1.7 U	10 U	11 U	10 U
4-Chloroaniline	ug/L	0.37	100 U	210 U	100 U	21 U	52 U	10 U	2.1 U	-	-	10 U	10 U	11 U	10 U	10 U	10 U	11 U	2.1 U	10 U	11 U	10 U
4-Methylphenol	ug/L	190	17 J	62 J	41 J	6.6 J	8.4 J	10 U	8.3 J	-	-	2.0 J	10 U	11 U	10 U	10 U	10 U	11 U	1.6 U	10 U	0.9 J	10 U
Acetophenone	ug/L	190	100 U	210 U	100 U	2.1 J	52 U	10 U	4.3 U	-	-	1.3 J	10 U	11 U	10 U	10 U	10 U	11 U	4.4 U	10 U	11 U	5.2 J
Benzaldehyde	ug/L	19	100 U	210 UJ	100 UJ	21 UJ	52 UJ	10 U	1.3 UJ	-	-	10 U	10 U	11 UJ	10 UJ	10 UJ	10 UJ	11 U	1.4 UJ	10 U	11 U	10 UJ
Benzo(a)anthracene	ug/L	0.03	10 U	21 U	10 U	2.1 U	5.2 U	1.0 U	0.020 U	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U	0.020 U	1.0 U	1.1 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	10 U	21 U	10 U	2.1 U	5.2 U	1.0 U	0.030 U	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U	0.031 U	1.0 U	1.1 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	100 U	210 U	100 U	21 U	52 U	10 U	5.4 U	-	-	10 U	10 U	11 U	10 U	10 U	10 U	11 U	5.5 U	10 U	11 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	100 U	210 U	100 U	21 U	52 U	10 U	2.4 U	-	-	2.0 U	24 U	11 U	10 U	10 U	10 U	11 U	2.4 U	2.0 U	19 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025	10 U	21 UJ	10 U	2.1 U	5.2 U	1.0 U	0.16 U	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U	0.16 U	1.0 U	1.1 U	1.0 U
Dibenzofuran	ug/L	0.79	100 U	210 U	100 U	21 U	52 U	10 U	3.6 U	-	-	10 UJ	10 U	11 U	10 U	10 U	10 U	11 U	3.7 U	10 U	11 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	10 U	21 UJ	10 U	2.1 U	5.2 U	1.0 U	0.12 U	-	-	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U	0.12 U	1.0 U	1.1 U	1.0 U
Naphthalene	ug/L	0.17	100 U	210 U	100 U	2.4 J	2.1 J	15 U	3.7 U	-	-	10 UJ	5.2 J	11 U	10 U	10 U	10 U	11 U	3.7 U	10 U	5.3 J	37
Pentachlorophenol	ug/L	0.041	420 U	620 U	320 U	63 U	150 UJ	30 U	0.14 U	-	-	20 U	42 U	32 UJ	30 U	30 U	31 U	32 U	0.14 U	20 U	44 U	32 UJ
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	45441	132180	54435	16646	17630	N/A	5101.8	N/A	N/A	426.2	327	N/A	15	N/A	N/A	N/A	N/A	N/A	1930	5173

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11R	MW-11R	MW-11R	MW-11R	MW-11R	MW-11R	MW-11R	MW-11R	MW-12	MW-12	
Sample Date:			11/10/2005	8/22/2006	12/15/2006	8/5/2008	2/25/2009	8/19/2009	3/3/2010	11/7/2011	10/11/2012	11/7/2017	11/10/2005	8/21/2006	12/14/2006	8/4/2008	2/24/2009	8/17/2009	3/1/2010	11/4/2017	11/10/2005	8/22/2006
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	-	2350	4730	4540	1890	5510	459	-	-	88.0	-	1000	2610	349	1640	2710	1480	87.1	-	8570
Antimony	ug/L	0.78	-	12 U	10 U	8.4 U	10 U	10.0 U	10.0 U	-	-	2.0 U	-	10 U	10 U	8.4 U	10 U	10.0 U	10.0 U	2.0 U	-	10 U
Arsenic	ug/L	0.052	-	42.1	40.0	47.8	47.1	46.5	34.7	-	-	20.4	-	5 U	4.2 U	5.9 U	4.2 U	5.0 U	5.0 U	2.0 U	-	9.4
Arsenic (dissolved)	ug/L	0.052	-	43.7	47.4	-	-	-	-	-	-	-	-	5 U	4.2 U	-	-	-	-	-	-	6.9
Barium	ug/L	380	-	401	355	350	377	385	422	-	-	331	-	292	247	294	175 J	207	292	81.6	-	169 J
Barium (dissolved)	ug/L	380	-	397	357	-	-	-	-	-	-	-	-	294	231	-	-	-	-	-	-	155 J
Cadmium	ug/L	0.92	-	3.2 U	4 U	5 U	4 U	5.0 U	5.0 U	-	-	2.0 U	-	4 U	4 U	5 U	4 U	5.0 U	5.0 U	2.0 U	-	4 U
Chromium	ug/L	10	-	3.6 J	10 U	6.1 J	2.8 J	7.1 J	10.0 U	-	-	4.0 U	-	7.1 J	10 U	2.8 J	2.8 J	3.6 J	10.0 U	4.0 U	-	26.2
Chromium (dissolved)	ug/L	10	-	5.7 U	10 U	-	-	-	-	-	-	-	-	7.6 J	10 U	-	-	-	-	-	-	5.7 U
Cobalt	ug/L	0.6	-	234	176	128	156	137	112	-	-	42.7	-	86.2	66.8	100 U	8.0 J	8.6 J	25.5 J	4.0 U	-	50 U
Cobalt (dissolved)	ug/L	0.6	-	216	171	-	-	-	-	-	-	-	-	86.7	68.0	-	-	-	-	-	-	24 U
Iron	ug/L	1400	-	167000	120000	100000	117000	107000	97700	-	-	34700	-	13100	19300	2040	7450	9210	6370	246	-	60900
Iron (dissolved)	ug/L	1400	-	159000	121000	-	-	-	-	-	-	-	-	6890	8080	-	-	-	-	-	-	59900
Lead	ug/L	15	-	3.7 U	5.3	20.6	2.9 J	5.0 U	3.5 J	-	-	1.2 U	-	3 U	3 U	2.4 U	3 U	5.0 U	5.0 U	1.2 U	-	15.6
Manganese	ug/L	43	-	1930	1260	968	1200	931	869	-	-	532	-	970	1130	340	157	167	368	8.7	-	330
Manganese (dissolved)	ug/L	43	-	1800	1290	-	-	-	-	-	-	-	-	993	1180	-	-	-	-	-	-	367
Mercury	ug/L	0.063	-	0.20 U	0.20 U	0.20 U	0.20 U	0.56	0.20 U	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U
Mercury (dissolved)	ug/L	0.063	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	0.20 U
Nickel	ug/L	39	-	8.1 J	40 U	7.2 J	4.6 J	8.8 J	40.0 U	-	-	5.8	-	5.3 J	6.0 J	65 U	2.5 J	3.6 J	40.0 U	5.6 U	-	10.0 J
Nickel (dissolved)	ug/L	39	-	5.3 J	40 U	-	-	-	-	-	-	-	-	4.0 J	3.5 J	-	-	-	-	-	-	25 U
Selenium	ug/L	10	-	4.4 U	5 U	5.7 U	5 U	10.0 U	10.0 U	-	-	10.0 U	-	5 U	5 U	5.7 U	5 U	10.0 U	10.0 U	10.0 U	-	5 U
Selenium (dissolved)	ug/L	10	-	4.4 U	5 U	-	-	-	-	-	-	-	-	5 U	5 U	-	-	-	-	-	-	4.4 U
Silver	ug/L	9.4	-	12 U	10 U	8.6 U	10 U	10.0 U	3.1 J	-	-	2.0 U	-	10 U	10 U	8.6 U	1.6 J	1.5 J	1.1 J	2.0 U	-	10 U
Thallium	ug/L	0.02	-	9.8 U	9.5 U	9.7 U	9.5 U	10.0 U	10.0 U	-	-	0.80 U	-	10 U	9.5 U	9.7 U	9.5 U	10.0 U	10.0 U	0.80 U	-	10 U
Vanadium	ug/L	8.6	-	6.3 J	9.6 J	10.6 J	5.4 J	12.8 J	2.7 J	-	-	4.0 U	-	1.8 J	5.2 J	16 U	50 U	4.4 J	2.8 J	4.0 U	-	26.6 J
Vanadium (dissolved)	ug/L	8.6	-	160 U	50 U	-	-	-	-	-	-	-	-	50 U	50 U	-	-	-	-	-	-	160 U
Notes:																						
U - Not detected at the associated reporting limit																						
J - Estimated concentration																						
UJ - Not detected; associated reporting limit is estimated																						
R - Rejected																						
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																						
OU - Operable Unit																						
"- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-2 MW-12 12/15/2006 -	OU-2 MW-12 8/4/2008 -	OU-2 MW-12 2/25/2009 -	OU-2 MW-12 8/18/2009 -	OU-2 MW-12 3/3/2010 -	OU-2 MW-12 11/7/2017 -	OU-2 MW-13 11/9/2005 -	OU-2 MW-13 8/22/2006 -	OU-2 MW-13 12/14/2006 -	OU-2 MW-13 8/4/2008 -	OU-2 MW-13 2/25/2009 -	OU-2 MW-13 8/19/2009 -	OU-2 MW-13 3/3/2010 -	OU-2 MW-13 11/7/2017 -	OU-2 MW-15 9/6/2006 -	OU-2 MW-15 9/6/2006 -	OU-2 MW-15 12/14/2006 -	OU-2 MW-15 2/24/2009 -	OU-2 MW-15 3/2/2010 -	
			(Duplicate)										(Duplicate)									
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	100 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	100 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	22	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-	1.0 U	-	-	-	-	-	-	-	180	-	-	-	-	-	
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	100 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	100 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	89	0.19 J
1,2-Dichloroethane	ug/L	0.17	40 U	0.8 J	2.0 U	1.0 U	1.0 U	0.43 J	2.0 U	2.0 U	100 U	2.0 U	20 U	2.0 U	5.0 U	1.0 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	ug/L	0.48	100 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	120	0.27 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	R	5.0 U	20 U	R	10 U	5.0 U	R	R	250 U	R	50 U	20 U	R	10 U	50 U	R	R	R	20 U	10 U
2-Hexanone	ug/L	3.8	100 U	5.0 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	20 U	50 U	10 U	50 U	5.0 U	5.0 U	5.0 U	20 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	100 U	5.0 U	20 U	10 U	R	5.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	20 U	50 U	R	50 U	5.0 U	5.0 U	5.0 U	20 U	R
Acetone	ug/L	1400	R	R	20 U	R	R	6.6 U	9.6	8.0	R	R	R	20 U	R	R	50 U	R	R	R	20 U	R
Benzene	ug/L	0.46	370	400	320	270	280	8.3	20	20	50 U	4.0	14	19	12	15	17	1.0 U	1.0 U	1.0 U	12	1.0 U
Carbon tetrachloride	ug/L	0.46	40 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	100 U	2.0 U	20 U	2.0 U	5.0 U	1.0 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
Chlorobenzene	ug/L	7.8	100 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.1 J	1.0 J	250 U	5.0 U	50 U	4.3	5.0 U	0.87 J	10 U	5.0 U	5.0 U	5.0 U	290	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	100 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	0.22 J
cis-1,2-Dichloroethene	ug/L	3.6	100 U	0.6 J	2.0 U	1.0 U	0.25 J	0.35 J	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	1.0 U
Ethylbenzene	ug/L	1.5	1200	250	52	34	15	1.0 U	500	480	530	6.7	550	660	550	620	620	9.8	10	4.0 U	2.0 U	7.4
Isopropyl benzene	ug/L	45	51 J	120	110	79	98	9.5	21	21	25 J	1.3 J	9.0 J	12	8.2	9.9	11	5.0 U	5.0 U	5.0 U	2.0 U	1.4
Methyl tert butyl ether (MTBE)	ug/L	10	39 J	56	37	46	35	19	36	36	46 J	2.2 J	17 J	20	25	18	150	5.0 U	5.0 U	5.0 U	2.0 U	1.0 U
Methylene chloride	ug/L	5	60 U	3.0 U	2.0 U	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	150 U	3.0 U	30 U	2.0 U	5.0 U	1.0 U	10 U	3.0 U	3.0 U	3.0 U	2.0 U	1.0 U
Tetrachloroethene	ug/L	1	20 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	1.0 U	10 U	2.0 U	5.0 U	1.0 U	10 U	0.7 J	0.7 J	0.6 J	0.8 J	0.66 J
Toluene	ug/L	110	14 J	12	0.9 J	53	1.3	1.0 U	4700	4500	7500	7.4	7500	5600	4800	5000	650	25	29	5.0 U	2.0 U	1.0
Trichloroethene	ug/L	0.28	20 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	1.0 U	10 U	2.0 U	5.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Vinyl chloride	ug/L	0.019	100 U	2.5 J	2.0 U	0.80 J	1.0 U	1.0 U	5.0 U	5.0 U	250 U	5.0 U	50 U	2.0 U	5.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	1.0 U
Xylenes (total)	ug/L	19	4600	1000	330	190	110	0.68 J	2700	2600	3000	10	3200	3600	3100	3000	2800	19	16	5.0 U	6.0 U	22
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	N/A	488	491	N/A	280	21.2	7240	6930	5580	14.3	7680	16230	N/A	11750	5070	N/A	8.3	N/A	N/A	N/A
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	10 U	10 U	2.8 U	10 U	200 U	210 UJ	R	100 U	100 U	200 U	100 U	2.8 U	200 U	10 U	10 U	10 U	10 U	2.8 U
2,4-Dimethylphenol	ug/L	36	11	2.5 J	2.7 J	10 U	2.5 U	10 U	35 J	62 J	200 U	18 J	100 U	200 U	100 U	15	200 U	10 U	10 U	10 U	10 U	2.6 U
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	2.0 U	2.0 U	0.59 U	2.0 U	41 U	41 UJ	41 U	21 U	20 U	40 U	20 U	0.59 U	40 U	2.0 U	2.0 U	2.0 U	2.1 U	0.60 U
2-Methylnaphthalene	ug/L	3.6	3.2 J	1.4 J	2.7 J	10 U	3.1 U	10 UJ	69 J	69 J	58 J	52 J	37 J	160 J	61 J	64	67 J	10 U	10 U	10 U	10 U	3.2 U
2-Methylphenol	ug/L	93	10 U	10 U	10 U	10 U	1.7 U	10 U	24 J	80 J	200 J	7.8 J	100 U	200 U	100 U	7.0 J	200 U	10 U	10 U	10 U	10 U	1.7 U
4-Chloroaniline	ug/L	0.37	10 U	10 U	10 U	10 U	2.1 U	10 U	200 U	210 UJ	200 U	100 U	100 U	200 U	100 U	2.1 U	200 U	10 U	10 U	10 U	10 U	2.1 U
4-Methylphenol	ug/L	190	10 U	10 U	10 U	10 U	1.6 U	10 U	30 J	40 J	25 J	22 J	17 J	13 J	100 U	23	200 U	10 U	10 U	10 U	10 U	1.6 U
Acetophenone	ug/L	190	10 U	1.6 J	1.9 J	10 U	4.3 U	10 U	200 U	210 UJ	170 J	180	110	460	100 U	180	200	10 U	10 U	10 U	10 U	4.4 U
Benzaldehyde	ug/L	19	10 UJ	10 UJ	10 UJ	10 U	1.3 UJ	10 U	200 U	210 UJ	200 UJ	100 UJ	100 UJ	200 UJ	100 U	1.3 UJ	200 U	10 UJ	10 UJ	10 UJ	10 UJ	1.4 UJ
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.0 U	1.0 U	0.020 U	1.0 U	20 U	21 UJ	20 U	10 U	10 U	20 U	10 U	0.040 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	0.020 U
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	0.030 U	1.0 U	20 U	21 UJ	20 U	10 U	10 U	20 U	10 U	0.060 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	0.031 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	10 U	10 U	5.4 U	10 U	200 U	210 UJ	200 U	100 U	100 U	200 U	100 U	5.4 U	200 U	10 U	10 U	10 U	10 U	5.5 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	10 U	10 U	2.4 U	2.0 U	200 U	210 UJ	200 U	100 U	100 U	200 U	100 U	2.4 U	40 U	10 U	10 U	10 U	10 U	2.4 U
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	20 U	21 UJ	20 UJ	10 U	10 U	20 U	3.7 J	0.16 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U
Dibenzofuran	ug/L	0.79	10 U	10 U	10 U	10 U	3.6 U	10 UJ	200 U	210 UJ	200 U	100 U	100 U	200 U	100 U	3.6 U	200 U	10 U	10 U	10 U	10 U	3.7 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	1.0 U	1.0 U	0.12 U	1.0 U	20 U	21 UJ	20 UJ	10 U	10 U	20 U	3.7 J	0.12 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	0.12 U
Naphthalene	ug/L	0.17	110	52	77	33	19	10 UJ	2100	2000 J	2400	1700	1800	3200	1900	1700	2300	10 U	10 U	10 U	10 U	3.7 U
Pentachlorophenol	ug/L	0.041	31 U	30 U	30 UJ	31 U	0.14 U	20 U	820 U	820 UJ	610 U	310 U	310 U	610 UJ	310 UJ	0.28 U	400 U	31 U	30 U	31 U	32 U	0.14 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	2214	1556	1659	N/A	409.2	406.7	9480	8430	10240	9100	6787	18090	N/A	6014	5210	110.5	64	18	251	N/A

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-15	MW-15	MW-15	MW-15	MW-15	
Sample Date:			12/15/2006	8/4/2008	2/25/2009	8/18/2009	3/3/2010	11/7/2017	11/9/2005	11/9/2005	8/22/2006	12/14/2006	8/4/2008	2/25/2009	8/19/2009	3/3/2010	11/7/2017	9/6/2006	9/6/2006	12/14/2006	2/24/2009	3/2/2010
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)										(Duplicate)									
DNREC-SIRS																						
Parameters	Units	Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	63900	2520	3210	14500	1030	151	-	-	4470	524	1550	29400	11200	8740	221	2150	2330	632	714	17300
Antimony	ug/L	0.78	10 U	8.4 U	10 U	10.0 U	10.0 U	4.3	-	-	10 U	10 U	8.4 U	10 U	10.0 U	10.0 U	2.0 U	10 U	10 U	10 U	10 U	10.0 U
Arsenic	ug/L	0.052	10.7	8.7	9.6	10.3	4.6 J	6.4	-	-	25.5	23.8	26.5	30.1	30.9	24.3	30.3	5 U	5 U	4.2 U	4.2 U	5.0 U
Arsenic (dissolved)	ug/L	0.052	6.6	-	-	-	-	-	-	-	23.6	23.3	-	-	-	-	-	5 U	5 U	4.2 U	-	-
Barium	ug/L	380	518	145 J	191 J	197 J	140 J	293	-	-	374	322	183 J	297	187 J	200 J	125	136 J	134 J	141 J	256	286
Barium (dissolved)	ug/L	380	192 J	-	-	-	-	-	-	-	432	340	-	-	-	-	-	131 J	133 J	148 J	-	-
Cadmium	ug/L	0.92	4 U	5 U	4 U	5.0 U	5.0 U	2.0 U	-	-	4 U	4 U	5 U	4 U	5.0 U	5.0 U	2.0 U	4 U	4 U	4 U	4 U	5.0 U
Chromium	ug/L	10	127	4.9 J	7.3 J	27.1	10.0 U	4.0 U	-	-	8.6 J	10 U	18 U	45.7	16.5	11.8	4.0 U	10 U	10 U	10 U	10 U	18.5
Chromium (dissolved)	ug/L	10	10 U	-	-	-	-	-	-	-	5.7 U	10 U	-	-	-	-	-	10 U	10 U	10 U	-	-
Cobalt	ug/L	0.6	21.5 J	100 U	2.2 J	4.1 J	50.0 U	1.6 J	-	-	4.7 J	50 U	100 U	17.6 J	8.1 J	6.1 J	2.9 J	7.9 J	7.3 J	50 U	3.1 J	9.3 J
Cobalt (dissolved)	ug/L	0.6	50 U	-	-	-	-	-	-	-	2.2 J	50 U	-	-	-	-	-	6.2 J	6.5 J	50 U	-	-
Iron	ug/L	1400	127000	55800	55000	60000	43000	15000	-	-	70200	52400	45000	117000	69300	54500	27900	3130	3000	844	913	23500
Iron (dissolved)	ug/L	1400	64000	-	-	-	-	-	-	-	65700	54500	-	-	-	-	-	150 U	150 U	150 U	-	-
Lead	ug/L	15	83.5	17.9	15.6	51.4	11.3	5.0	-	-	3 U	3 U	8.1	14.0	5.0 U	9.3	1.2 U	3 U	3 U	3 U	3 U	15.3
Manganese	ug/L	43	875	406	337	390	352	138	-	-	694	566	532	1000	800	561	593	192	191	75.8	52.8	78.7
Manganese (dissolved)	ug/L	43	512	-	-	-	-	-	-	-	724	587	-	-	-	-	-	174	167	75.5	-	-
Mercury	ug/L	0.063	0.12 J	0.20 U	0.20 U	0.54	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.24	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	0.20 U	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-	-
Nickel	ug/L	39	56.1	4.2 J	6.9 J	16.7 J	40.0 U	3.8 J	-	-	4.5 J	40 U	65 U	23.7 J	9.6 J	6.5 J	2.0 J	4.2 J	40 U	5.2 J	2.9 J	22.9 J
Nickel (dissolved)	ug/L	39	40 U	-	-	-	-	-	-	-	25 U	40 U	-	-	-	-	-	40 U	40 U	3.0 J	-	-
Selenium	ug/L	10	5 U	5.7 U	5 U	10.0 U	10.0 U	10.0 U	-	-	5 U	5 U	5.7 U	5 U	10.0 U	10.0 U	10.0 U	5 U	5 U	5 U	5 U	10.0 U
Selenium (dissolved)	ug/L	10	5 U	-	-	-	-	-	-	-	4.4 U	5 U	-	-	-	-	-	5 U	5 U	5 U	-	-
Silver	ug/L	9.4	10 U	8.6 U	10 U	1.5 J	0.99 J	2.0 U	-	-	10 U	10 U	8.6 U	10 U	2.0 J	1.6 J	2.0 U	10 U	10 U	10 U	10 U	5.1 J
Thallium	ug/L	0.02	9.5 U	9.7 U	9.5 U	10.0 U	10.0 U	0.80 U	-	-	10 U	9.5 U	9.7 U	9.5 U	10.0 U	10.0 U	0.80 U	10 U	10 U	9.5 U	9.5 U	10.0 U
Vanadium	ug/L	8.6	196	6.1 J	6.5 J	38.6 J	3.3 J	1.9 J	-	-	10.5 J	50 U	2.1 J	66.1	24.1 J	17.1 J	4.0 U	5.2 J	4.7 J	50 U	50 U	30.1 J
Vanadium (dissolved)	ug/L	8.6	50 U	-	-	-	-	-	-	-	160 U	50 U	-	-	-	-	-	50 U	50 U	50 U	-	-
Notes: U - Not detected at the associated reporting limit J - Estimated concentration UJ - Not detected; associated reporting limit is estimated R - Rejected DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section OU - Operable Unit "- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17	MW-17	MW-17	MW-18	MW-18	MW-18	MW-18	
Sample Date:			11/3/2011	10/11/2012	11/5/2017	9/6/2006	9/6/2006	12/14/2006	12/14/2006	2/24/2009	3/2/2010	11/5/2017	9/6/2006	12/12/2006	2/24/2009	3/3/2010	11/5/2017	9/7/2006	12/12/2006	2/24/2009	3/3/2010	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)				(Duplicate)															
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	1.0 U	-	-	-	-	-	-	2.7	-	-	-	-	1.0 U	-	-	-	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	-	-	1.0 U	4.9 J	2.3 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	6.8	1.2 J	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	-	-	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	-	-	1.0 U	9.6 J	4.4 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	14	1.3 J	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	-	-	5.0 U	R	R	R	R	10 U	10 U	5.0 U	R	R	10 U	10 U	5.0 U	R	R	10 U	10 U	5.0 U
2-Hexanone	ug/L	3.8	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/L	630	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	R	5.0 U	5.0 U	5.0 U	10 U	R	5.0 U	5.0 U	5.0 U	10 U	R	5.0 U
Acetone	ug/L	1400	-	-	5.0 U	R	R	R	R	10 U	R	5.0 U	R	R	10 U	R	5.0 U	R	R	10 U	R	5.0 U
Benzene	ug/L	0.46	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 J	0.13 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	0.46	-	-	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	7.8	-	-	1.0 U	6.6 J	3.1 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	12	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	0.2 J	0.54 J	1.0 U
cis-1,2-Dichloroethene	ug/L	3.6	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.5	-	-	1.0 U	9.4	9.8	4.0 U	4.0 U	14	270	22	1.2 J	4.0 U	1.0 U	1.0 J	1.0 U	4.4	4.0 U	1.0 U	1.1	1.0 U
Isopropyl benzene	ug/L	45	-	-	1.0 U	32	32	4.9 J	6.0	66	560	370	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	0.47 J	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.4 J	1.0 U	1.0 U	0.6 J	0.4 J	0.4 J	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5	-	-	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1	-	-	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.4 J	1.0 U	1.0 U
Toluene	ug/L	110	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 J	10	1.0 U	5.0 U	5.0 U	0.4 J	0.47 J	1.0 U	8.9	5.0 U	0.7 J	2.4	1.0 U
Trichloroethene	ug/L	0.28	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.4 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.019	-	-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	19	-	-	2.0 U	4.8 J	3.2 J	5.0 U	5.0 U	9.3	170	3.5	4.5 J	5.0 U	0.2 J	2.4 J	2.0 U	9.8	0.5 J	0.2 J	2.0 J	2.0 U
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	N/A	N/A	N/A	280	290.2	126.1	136.8	561	7410	1706	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	-	-	10 U	10 U	10 U	10 U	10 U	10 U	2.8 U	10 U	10 U	10 U	10 U	2.8 U	10 U	10 U	10 U	10 U	2.8 U	10 U
2,4-Dimethylphenol	ug/L	36	-	-	10 U	10 U	10 U	10 U	10 U	10 U	2.6 U	10 U	10 U	10 U	10 U	2.6 U	10 U	10 U	10 U	10 U	2.6 U	10 U
2,6-Dinitrotoluene	ug/L	0.049	-	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.60 U	2.0 U	2.1 U	2.1 U	2.0 U	0.60 U	2.0 U	2.0 U	2.1 U	2.0 U	0.60 U	2.0 U
2-Methylnaphthalene	ug/L	3.6	-	-	10 U	10 U	10 U	10 U	10 U	10 U	3.2 U	10 U	10 U	10 U	10 U	3.2 U	10 U	10 U	10 U	10 U	3.2 U	10 UJ
2-Methylphenol	ug/L	93	-	-	10 U	10 U	10 U	10 U	10 U	10 U	1.7 U	10 U	10 U	10 U	10 U	1.7 U	10 U	10 U	10 U	10 U	1.7 U	10 U
4-Chloroaniline	ug/L	0.37	-	-	10 U	10 U	10 U	10 U	10 U	10 U	2.1 U	10 U	10 U	10 U	10 U	2.1 U	10 U	10 U	10 U	10 U	2.1 U	10 U
4-Methylphenol	ug/L	190	-	-	10 U	10 U	10 U	10 U	10 U	10 U	1.6 U	10 U	10 U	10 U	10 U	1.6 U	10 U	10 U	10 U	10 U	1.6 U	10 U
Acetophenone	ug/L	190	-	-	10 U	10 U	10 U	10 U	10 U	10 U	15	10 U	10 U	10 U	10 U	4.4 U	10 U	10 U	10 U	10 U	4.4 U	10 U
Benzaldehyde	ug/L	19	-	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	1.4 UJ	10 U	10 UJ	10 UJ	10 UJ	1.4 UJ	10 U	10 UJ	10 UJ	10 UJ	1.4 UJ	10 U
Benzo(a)anthracene	ug/L	0.03	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.052	1.0 U	1.0 U	1.0 U	1.0 U	0.020 U	1.0 U	1.0 U	1.0 U	1.0 U	0.020 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.031 U	1.0 U	1.0 U	1.0 U	1.0 U	0.031 U	1.0 U	1.0 U	1.0 U	1.0 U	0.031 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	-	-	10 U	10 U	10 U	10 U	10 U	10 U	5.5 U	10 U	10 U	10 U	10 U	5.5 U	10 U	10 U	10 U	10 U	5.5 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	-	-	2.0 U	10 U	10 U	10 U	10 U	10 U	2.4 U	2.0 U	10 U	10 U	10 U	2.4 U	2.0 U	10 U	10 U	10 U	2.4 U	2.0 U
Dibenz(a,h)anthracene	ug/L	0.025	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U
Dibenzofuran	ug/L	0.79	-	-	10 U	0.5 J	0.6 J	10 U	0.2 J	10 U	3.7 U	10 U	10 U	10 U	10 U	3.7 U	10 U	10 U	10 U	10 U	3.7 U	10 UJ
Indeno(1,2,3-cd)pyrene	ug/L	0.25	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.12 U	1.0 U	1.0 U	1.0 U	1.0 U	0.12 U	1.0 U	1.0 U	1.0 U	1.0 U	0.12 U	1.0 U
Naphthalene	ug/L	0.17	-	-	10 U	16	15	1.0 J	1.3 J	44	340	7.8 J	0.7 J	10 U	10 U	3.7 U	10 U	10 U	10 U	10 U	3.7 U	10 UJ
Pentachlorophenol	ug/L	0.041	-	-	20 U	31 U	30 U	0.4 J	0.6 J	30 U	0.14 U	20 U	32 U	32 U	30 U	0.14 U	20 U	30 U	32 U	31 U	0.14 U	20 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	N/A	N/A	19	1617.5	1580.2	460.6	577.8	554	4775	2460	9.4	28	N/A	N/A	N/A	8.7	29	N/A	N/A	N/A

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	
Sample Location:			MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17	MW-17	MW-17	MW-18	MW-18	MW-18	MW-18	
Sample Date:			11/3/2011	10/11/2012	11/5/2017	9/6/2006	9/6/2006	12/14/2006	12/14/2006	2/24/2009	3/2/2010	11/5/2017	9/6/2006	12/12/2006	2/24/2009	3/3/2010	11/5/2017	9/7/2006	12/12/2006	2/24/2009	3/3/2010	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							(Duplicate)		(Duplicate)													
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	-	-	233	837	856	543	641	4540	1560	153	4800	2300	5280	1560	45.6	898	1370	2440	1000	294
Antimony	ug/L	0.78	-	-	2.0 U	10 U	10 U	10 U	10 U	10 U	10.0 U	2.0 U	10 U	10 U	10 U	10.0 U	2.0 U	10 U	10 U	10 U	10.0 U	2.0 U
Arsenic	ug/L	0.052	-	-	2.0 U	5 U	5 U	4.2 U	4.2 U	4.2 U	5.0 U	0.70 J	5 U	4.2 U	4.2 U	5.0 U	2.0 U	5 U	4.2 U	4.2 U	5.0 U	2.0 U
Arsenic (dissolved)	ug/L	0.052	-	-	-	5 U	5 U	4.2 U	4.2 U	-	-	-	5 U	4.2 U	-	-	-	5 U	4.2 U	-	-	-
Barium	ug/L	380	-	-	116	471	469	357	359	315	484	218	137 J	122 J	131 J	159 J	103	60.4 J	47.1 J	63.8 J	57.7 J	31.0
Barium (dissolved)	ug/L	380	-	-	-	491	503	384	379	-	-	-	121 J	117 J	-	-	-	60.2 J	46.2 J	-	-	-
Cadmium	ug/L	0.92	-	-	2.0 U	4 U	4 U	4 U	4 U	4 U	5.0 U	2.0 U	4 U	4 U	4 U	5.0 U	2.0 U	4 U	4 U	4 U	5.0 U	2.0 U
Chromium	ug/L	10	-	-	1.4 J	10 U	10 U	10 U	10 U	4.8 J	10.0 U	4.0 U	10 U	10 U	9.1 J	10.0 U	4.0 U	10 U	10 U	3.6 J	10.0 U	4.0 U
Chromium (dissolved)	ug/L	10	-	-	-	10 U	10 U	10 U	10 U	-	-	-	10 U	10 U	-	-	-	10 U	10 U	-	-	-
Cobalt	ug/L	0.6	-	-	4.0 U	50 U	50 U	50 U	50 U	2.3 J	50.0 U	4.0 U	4.8 J	50 U	3.6 J	50.0 U	4.0 U	3.6 J	50 U	3.1 J	50.0 U	4.0 U
Cobalt (dissolved)	ug/L	0.6	-	-	-	50 U	50 U	50 U	50 U	-	-	-	50 U	50 U	-	-	-	3.6 J	50 U	-	-	-
Iron	ug/L	1400	-	-	398	7590	7670	10000	10100	16600	11400	7140	16800	7590	16000	3560	66.2 J	574	924	1470	1460	99.3 J
Iron (dissolved)	ug/L	1400	-	-	-	7550	7630	10800	10600	-	-	-	150 U	175	-	-	-	134 J	180	-	-	-
Lead	ug/L	15	5.0 U	5.0 U	1.2 U	3 U	3 U	3 U	2.9 J	4.9 J	5.0 U	1.2 U	3 U	3 U	3 U	4.3 J	1.2 U	3 U	3 U	3 U	5.0 U	1.2 U
Manganese	ug/L	43	-	-	12.7	483	490	354	359	351	628	258	189	161	72.7	18.3	2.8 J	667	544	342	329	196
Manganese (dissolved)	ug/L	43	-	-	-	496	512	380	373	-	-	-	123	105	-	-	-	711	571	-	-	-
Mercury	ug/L	0.063	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.11 J	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-	-
Nickel	ug/L	39	-	-	5.6 U	40 U	40 U	40 U	40 U	3.5 J	40.0 U	4.0 U	10.4 J	5.6 J	6.2 J	40.0 U	4.0 U	40 U	40 U	2.6 J	40.0 U	4.0 U
Nickel (dissolved)	ug/L	39	-	-	-	40 U	40 U	40 U	40 U	-	-	-	40 U	3.0 J	-	-	-	40 U	40 U	-	-	-
Selenium	ug/L	10	-	-	10.0 U	5 U	5 U	5 U	5 U	5 U	10.0 U	10.0 U	5 U	5 U	5 U	10.0 U	1.2 J	5 U	5 U	5 U	10.0 U	10.0 U
Selenium (dissolved)	ug/L	10	-	-	-	5 U	5 U	5 U	5 U	-	-	-	5 U	5 U	-	-	-	5 U	5 U	-	-	-
Silver	ug/L	9.4	-	-	2.0 U	10 U	10 U	10 U	10 U	10 U	1.9 J	2.0 U	10 U	10 U	10 U	1.1 J	2.0 U	10 U	10 U	10 U	10.0 U	2.0 U
Thallium	ug/L	0.02	-	-	0.80 U	10 U	10 U	9.5 U	9.5 U	9.5 U	10.0 U	0.80 U	10 U	9.5 U	9.5 U	10.0 U	0.80 U	10 U	9.5 U	9.5 U	10.0 U	0.80 U
Vanadium	ug/L	8.6	-	-	4.0 U	1.6 J	50 U	50 U	50 U	50 U	2.7 J	4.0 U	13.3 J	6.9 J	10.5 J	3.0 J	4.0 U	4.0 J	5.9 J	5.5 J	8.0 J	6.2
Vanadium (dissolved)	ug/L	8.6	-	-	-	50 U	50 U	50 U	50 U	-	-	-	50 U	50 U	-	-	-	1.9 J	50 U	-	-	-
Notes:																						
U - Not detected at the associated reporting limit																						
J - Estimated concentration																						
UJ - Not detected; associated reporting limit is estimated																						
R - Rejected																						
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																						
OU - Operable Unit																						
"- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-3	OU-3	OU-3	OU-3	OU-3		
Sample Location:			MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	OU2-SG03	BH10-11	BH11-11	BH36-11	MW-14	MW-14	MW-14
Sample Date:			9/7/2006	12/12/2006	8/5/2008	11/20/2008	2/23/2009	5/8/2009	8/17/2009	11/12/2009	3/1/2010	5/18/2010	11/5/2017	6/26/2018	6/26/2018	6/26/2018	6/3/2019	9/16/2011	9/16/2011	9/16/2011	11/11/2005	12/22/2005	8/23/2006	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(Duplicate)																								
Parameters	Units	DNREC-SIRS																						
		Screening Levels (November 2021)																						
Volatile Organic Compounds																								
1,1-Dichloroethane	ug/L	2.8	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U		
1,2,4-Trichlorobenzene	ug/L	0.4	5.0 U	0.7 J	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 U	1.0 U	1.0 U	1.0 U	-	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	-	5.0 U		
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	3500	-	-	-	-	-	-		
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	5.0 U	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	-	5.0 U		
1,2-Dichlorobenzene	ug/L	30	5.1	4.8 J	5.0 U	-	0.2 J	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	-	5.0 U		
1,2-Dichloroethane	ug/L	0.17	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U		
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1,4-Dichlorobenzene	ug/L	0.48	9.3	4.1 J	0.4 J	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	-	5.0 U		
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	R	R	5.0 U	5.0 U	10 U	10 U	R	10 UJ	10 U	0.82 U	5.0 U	5.0 U	5.0 U	-	R	R	R	R	R	5.0 U		
2-Hexanone	ug/L	3.8	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	0.55 U	5.0 U	5.0 U	5.0 U	-	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U		
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	R	0.68 U	5.0 U	5.0 U	5.0 U	-	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U		
Acetone	ug/L	1400	R	R	R	5.0 U	10 U	10 UJ	R	R	R	2.5 U	5.0 U	5.0 U	11 U	-	R	R	R	5.0 U	5.0 U	R		
Benzene	ug/L	0.46	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	1200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon tetrachloride	ug/L	0.46	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U		
Chlorobenzene	ug/L	7.8	9.1	1.0 J	0.8 J	5.0 U	0.3 J	1.0 U	1.0 U	0.18 J	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U		
Chloroform (Trichloromethane)	ug/L	0.22	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U		
cis-1,2-Dichloroethene	ug/L	3.6	5.0 U	5.0 U	5.0 U	5.0 U	0.3 J	1.0 U	0.54 J	0.41 J	0.24 J	0.44 J	0.49 J	1.0 U	1.0 U	-	0.43 J	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U		
Ethylbenzene	ug/L	1.5	1.4 J	4.0 U	23	4.0 U	0.2 J	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	5000	1.0 U	1.0 U	1.0 U	4.0 U	4.0 U	12		
Isopropyl benzene	ug/L	45	1.0 J	5.0 U	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	-	5.0 U		
Methyl tert butyl ether (MTBE)	ug/L	10	5.0 U	0.5 J	5.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U	-	1.0 U	0.40 J	1.0 U	5.0 U	-	5.0 U		
Methylene chloride	ug/L	5	3.0 U	3.0 U	3.0 U	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	3.0 U		
Tetrachloroethene	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	-	8.9	0.87 J	0.50 J	1.6	1.4	1.5		
Toluene	ug/L	110	1.2 J	5.0 U	100	5.0 U	0.8 J	1.0 U	1.0 U	1.0 U	0.31 J	0.090 U	1.0 U	1.0 U	1.0 U	2500	1.0 U	1.0 U	0.29 J	5.0 U	5.0 U	59		
Trichloroethene	ug/L	0.28	1.0 U	1.8	1.0 U	1.0 U	1.0 U	0.57 J	0.38 J	1.0 U	1.0 U	0.44 J	0.48 J	1.0 U	1.0 U	-	0.74 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Vinyl chloride	ug/L	0.019	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U		
Xylenes (total)	ug/L	19	4.5 J	5.0 U	41	5.0 U	0.3 J	3.0 U	3.0 U	3.0 U	3.0 U	0.43 U	2.0 U	2.0 U	2.0 U	20000	3.0 U	3.0 U	3.0 U	5.0 U	5.0 U	21		
Volatile Organic Compounds - Tentatively Identified Compounds																								
Total VOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Semi-volatile Organic Compounds																								
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	2.8 U	-	10 U	1.1 J	0.92 J	-	10 U	10 U	11 U	11 U	-	11 U		
2,4-Dimethylphenol	ug/L	36	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	2.6 U	-	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
2,6-Dinitrotoluene	ug/L	0.049	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U	1.0 U	0.60 U	0.63 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.2 U	2.2 U	-	2.2 U		
2-Methylnaphthalene	ug/L	3.6	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	3.2 U	3.3 U	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
2-Methylphenol	ug/L	93	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	1.7 U	-	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
4-Chloroaniline	ug/L	0.37	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	2.1 U	2.2 UJ	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
4-Methylphenol	ug/L	190	10 U	10 U	10 U	-	10 U	10 U	11 U	5.1 U	1.6 U	-	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
Acetophenone	ug/L	190	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	4.4 U	4.6 U	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
Benzaldehyde	ug/L	19	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	11 U	5.1 UJ	1.4 UJ	1.4 UJ	10 U	10 U	10 U	-	10 UJ	10 UJ	11 UJ	11 U	-	11 UJ		
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	0.51 U	0.020 U	0.021 U	1.0 U	1.0 U	1.0 U	-	0.050 U	0.050 U	0.054 U	1.1 U	-	1.1 U		
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	0.51 U	0.031 U	0.032 U	1.0 U	1.0 U	1.0 U	-	0.050 U	0.050 U	0.054 U	1.1 U	-	1.1 U		
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	5.5 U	5.8 U	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	10 U	10 U	10 U	10 UJ	11 U	5.1 U	2.4 U	2.6 U	2.0 U	2.0 U	2.0 U	-	10 U	10 U	11 U	17 U	-	11 U		
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	0.51 UJ	0.16 U	0.17 U	1.0 U	1.0 UJ	1.0 UJ	-	1.0 U	1.0 U	1.1 U	1.1 U	-	1.1 U		
Dibenzofuran	ug/L	0.79	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	3.7 U	3.8 U	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	0.51 U	0.12 U	0.13 U	1.0 U	2.0 U	2.0 U	-	1.0 U	1.0 U	1.1 U	1.1 U	-	1.1 U		
Naphthalene	ug/L	0.17	10 U	10 U	10 U	10 U	10 U	10 U	11 U	5.1 U	3.7 U	3.9 U	10 U	10 U	10 U	-	10 U	10 U	11 U	11 U	-	11 U		
Pentachlorophenol	ug/L	0.041	31 U	32 U	31 U	30 U	30 U	30 U	32 U	15 U	0.14 U	-	20 U	20 U	20 U	-	0.20 U	0.20 U	0.22 U	44 U	-	33 UJ		
Semi-volatile Organic Compounds - Tentatively Identified Compounds																								
Total SVOC TICs	ug/L	-	N/A	16	45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	111.3	13	N/A	N/A	69	42.8	N/A	N/A	104.3		

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-2	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3
Sample Location:			MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	OU2-SG03	BH10-11	BH11-11	BH36-11	MW-14	MW-14
Sample Date:			9/7/2006	12/12/2006	8/5/2008	11/20/2008	2/23/2009	5/8/2009	8/17/2009	11/12/2009	3/1/2010	5/18/2010	11/5/2017	6/26/2018	6/26/2018	6/3/2019	9/16/2011	9/16/2011	9/16/2011	9/16/2011	11/11/2005	12/22/2005
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)																			
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	13500	16000	7480	1620	7330	1390	12500	2250 J	1010	4460 J	232	946	778	-	22500	35300	5870	-	-	320 U
Antimony	ug/L	0.78	10 U	10 U	8.4 U	10 U	5.8 J	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	2.0 U	2.0 U	2.0 U	-	10.0 U	10.0 U	10.0 U	-	-	24 U
Arsenic	ug/L	0.052	4.6 J	3.8 J	7.1	4.8 J	3.5 J	5.0 U	5.0 U	5.0 U	5.0 U	5.2	1.8 J	1.4 J	1.3 J	-	5.0 U	5.0 U	5.0 U	-	-	7.1 U
Arsenic (dissolved)	ug/L	0.052	5 U	3.2 J	-	-	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	3.9 J	-	-	7.1 U
Barium	ug/L	380	166 J	274	295	221	506	253	176 J	198 J	251	219	136	128	137	-	127 J	317	70.1 J	-	-	280 J
Barium (dissolved)	ug/L	380	118 J	188 J	-	-	-	-	-	-	-	-	-	-	-	-	51.1 J	118 J	48.7 J	-	-	293 J
Cadmium	ug/L	0.92	4 U	4 U	5 U	4 U	4 U	5.0 U	5.0 U	5.0 U	5.0 U	0.92 U	2.0 U	2.0 U	2.0 U	-	5.0 U	5.0 U	5.0 U	-	-	6.4 U
Chromium	ug/L	10	16.4	25.4	8.8 J	1.7 J	10.3	10.0 U	14.5	10.0 U	10.0 U	5.2 J	4.0 U	1.7 J	1.4 J	-	29.9	59.0	14.0	-	-	11 U
Chromium (dissolved)	ug/L	10	10 U	10 U	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U	10.1	-	-	11 U
Cobalt	ug/L	0.6	50 U	50 U	4.7 J	2.3 J	5.3 J	50.0 U	3.1 J	50.0 U	50.0 U	3.1 J	4.0 U	4.0 U	4.0 U	-	17.4 J	14.6 J	50.0 U	-	-	48 U
Cobalt (dissolved)	ug/L	0.6	50 U	50 U	-	-	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	50.0 U	-	-	48 U
Iron	ug/L	1400	8570	12500	11000	6850	12700	5680	8460	5240	6530	8700	1250	2140	2170	-	42300	25700	4350	-	-	300 U
Iron (dissolved)	ug/L	1400	864	3020	-	-	-	-	-	-	-	-	-	-	-	-	150 U	150 U	3590	-	-	300 U
Lead	ug/L	15	8.6	11.2	5.4	3.5 J	2.9 J	3.3 J	7.7	5.0 U	5.0 U	6.3	1.2 U	1.3	1.2	-	8.6	14.3	2.9 J	-	-	7.4 U
Manganese	ug/L	43	260	461	545	496	776	420	264	390	487	454	208	206	214	-	498	437	30.7	-	-	50.9
Manganese (dissolved)	ug/L	43	250	422	-	-	-	-	-	-	-	-	-	-	-	-	129	15.0 U	23.5	-	-	51.9
Mercury	ug/L	0.063	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22	0.20 U	0.20 U	0.18 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Mercury (dissolved)	ug/L	0.063	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Nickel	ug/L	39	9.4 J	12.4 J	4.7 J	40 U	6.7 J	40.0 U	7.8 J	40.0 U	40.0 U	3.5 J	5.6 U	1.4 J	1.6 J	-	20.6 J	36.6 J	4.7 J	-	-	49 U
Nickel (dissolved)	ug/L	39	40 U	40 U	-	-	-	-	-	-	-	-	-	-	-	-	40.0 U	40.0 U	4.5 J	-	-	49 U
Selenium	ug/L	10	5 U	5 U	5.7 U	5 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	4.8 U	10.0 U	10.0 U	10.0 U	-	10.0 U	10.0 U	10.0 U	-	-	8.7 U
Selenium (dissolved)	ug/L	10	5 U	5 U	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U	10.0 U	-	-	8.7 U
Silver	ug/L	9.4	10 U	10 U	2.3 J	10 U	4.5 J	1.2 J	1.1 J	1.3 J	10.0 U	0.97 U	2.0 U	2.0 U	2.0 U	-	10.0 U	10.0 U	1.1 J	-	-	23 U
Thallium	ug/L	0.02	10 U	9.5 U	9.7 U	9.5 U	9.5 U	10.0 U	10.0 U	10.0 U	10.0 U	4.6 U	0.80 U	0.80 U	0.80 U	-	10.0 U	10.0 U	10.0 U	-	-	20 U
Vanadium	ug/L	8.6	29.8 J	39.6 J	15.3 J	50 U	13.0 J	50.0 U	26.5 J	4.9 J	2.4 J	8.4 J	4.0 U	3.0 J	2.9 J	-	44.3 J	53.5	22.5 J	-	-	310 U
Vanadium (dissolved)	ug/L	8.6	50 U	50 U	-	-	-	-	-	-	-	-	-	-	-	-	50.0 U	6.0 J	7.4 J	-	-	310 U
Notes:																						
U - Not detected at the associated reporting limit																						
J - Estimated concentration																						
UJ - Not detected; associated reporting limit is estimated																						
R - Rejected																						
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																						
OU - Operable Unit																						
"- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	
Sample Location:			MW-14	MW-14	MW-14	MW-14	MW-14	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21	MW-21	MW-22	MW-22	MW-23	MW-23	MW-24	MW-24	MW-25	
Sample Date:			12/14/2006	8/5/2008	10/5/2012	11/6/2017	11/6/2017	1/21/2010	3/2/2010	11/5/2017	1/21/2010	1/21/2010	3/2/2010	11/4/2017	11/1/2011	11/4/2017	10/26/2011	11/5/2017	10/31/2011	11/3/2017	10/31/2011	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)				(Duplicate)				(Duplicate)				(Duplicate)				(Duplicate)			
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	ug/L	0.4	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	1.0 U	1.0 U	-	-	1.0 U	-	-	-	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	ug/L	30	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	ug/L	0.17	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	ug/L	0.48	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	R	10 U	R	5.0 U	5.0 U	-	10 U	5.0 U	-	-	10 U	5.0 U	-	5.0 U	R	5.0 U	R	5.0 U	R	
2-Hexanone	ug/L	3.8	5.0 U	10 U	5.0 U	5.0 U	5.0 U	-	10 U	5.0 U	-	-	10 U	5.0 U	-	5.0 U	10 U	5.0 U	10 U	5.0 U	10 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	5.0 U	10 U	5.0 U	5.0 U	5.0 U	-	R	5.0 U	-	-	R	5.0 U	-	5.0 U	10 U	5.0 U	10 U	5.0 U	10 U	
Acetone	ug/L	1400	R	R	R	5.0 U	5.0 U	-	R	5.0 U	-	-	R	5.0 U	-	5.0 U	R	3.3 J	R	7.1 U	R	
Benzene	ug/L	0.46	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	ug/L	0.46	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	ug/L	7.8	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	0.16 J	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform (Trichloromethane)	ug/L	0.22	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	ug/L	3.6	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	ug/L	1.5	4.0 U	17	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropyl benzene	ug/L	45	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl tert butyl ether (MTBE)	ug/L	10	5.0 U	10 U	0.17 J	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	0.67 J	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene chloride	ug/L	5	3.0 U	6.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	ug/L	1	1.1	2.0 U	0.28 J	1.0	1.0	-	1.0 U	0.27 J	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Toluene	ug/L	110	5.0 U	120	0.17 J	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	0.72 J	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	
Trichloroethene	ug/L	0.28	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Vinyl chloride	ug/L	0.019	5.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Xylenes (total)	ug/L	19	5.0 U	23	3.0 U	2.0 U	2.0 U	-	3.0 U	2.0 U	-	-	3.0 U	2.0 U	-	2.0 U	3.0 U	2.0 U	3.0 U	2.0 U	3.0 U	
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.6	N/A	N/A	N/A	N/A	
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	-	10 U	10 U	10 U	2.8 U	10 U	10 U	10 U	2.9 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
2,4-Dimethylphenol	ug/L	36	10 U	10 U	-	10 U	10 U	10 U	2.6 U	10 U	10 U	10 U	2.6 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
2,6-Dinitrotoluene	ug/L	0.049	2.1 U	2.1 U	-	2.0 U	2.0 U	2.0 U	0.60 U	2.0 U	2.0 U	2.0 U	0.61 U	2.0 U	2.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	2.0 U	
2-Methylnaphthalene	ug/L	3.6	10 U	10 U	-	10 UJ	10 UJ	10 U	3.2 U	10 U	10 U	10 U	3.2 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
2-Methylphenol	ug/L	93	10 U	10 U	-	10 U	10 U	10 U	1.7 U	10 U	10 U	10 U	1.7 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
4-Chloroaniline	ug/L	0.37	10 U	10 U	-	10 U	10 U	10 U	2.1 U	10 U	10 U	10 U	2.2 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
4-Methylphenol	ug/L	190	10 U	10 U	-	10 U	10 U	10 U	1.6 U	10 U	10 U	10 U	1.6 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
Acetophenone	ug/L	190	10 U	10 U	-	10 U	10 U	10 U	4.4 U	10 U	10 U	10 U	4.5 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
Benzaldehyde	ug/L	19	10 UJ	10 UJ	-	10 U	10 U	10 UJ	1.4 UJ	10 U	10 UJ	10 UJ	1.4 UJ	10 U	10 UJ	10 U	12 UJ	10 U	10 UJ	10 U	10 UJ	
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	0.020 U	1.0 U	1.0 U	1.0 U	0.021 U	1.0 U	0.051 U	1.0 U	0.062 U	1.0 U	0.051 U	1.0 U	0.051 U	
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	0.031 U	1.0 U	1.0 U	1.0 U	0.031 U	1.0 U	0.051 U	1.0 U	0.062 U	1.0 U	0.051 U	1.0 U	0.051 U	
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	-	10 U	10 U	10 U	5.5 U	10 U	10 U	10 U	5.6 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	-	2.0 U	2.0 U	10 U	2.4 U	2.0 U	10 U	10 U	2.5 U	2.0 U	10 U	2.0 U	12 U	2.0 U	10 U	2.0 U	2.0 U	
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	1.0 U	1.0 U	0.17 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dibenzofuran	ug/L	0.79	10 U	10 U	-	10 UJ	10 UJ	10 U	3.7 U	10 U	10 U	10 U	3.7 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	0.12 U	1.0 U	1.0 U	1.0 U	0.12 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	
Naphthalene	ug/L	0.17	0.3 J	10 U	-	10 UJ	10 UJ	10 U	3.7 U	10 U	10 U	10 U	3.8 U	10 U	10 U	10 U	12 U	10 U	10 U	10 U	10 U	
Pentachlorophenol	ug/L	0.041	31 U	31 U	-	20 U	20 U	30 U	0.14 U	20 U	30 U	30 U	0.15 U	20 U	0.20 U	20 U	0.25 U	20 U	0.20	20 U	0.20 U	
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	16	49.4	N/A	N/A	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.4	N/A	N/A	N/A	N/A	N/A	N/A	

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	
Sample Location:			MW-14	MW-14	MW-14	MW-14	MW-14	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21	MW-21	MW-22	MW-22	MW-23	MW-23	MW-24	MW-24	MW-25	
Sample Date:			12/14/2006	8/5/2008	10/5/2012	11/6/2017	11/6/2017	1/21/2010	3/2/2010	11/5/2017	1/21/2010	1/21/2010	3/2/2010	11/4/2017	11/1/2011	11/4/2017	10/26/2011	11/5/2017	10/31/2011	11/3/2017	10/31/2011	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)										(Duplicate)									
DNREC-SIRS																						
Parameters	Units	Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	6710	1410	-	66.6	65.4	-	2240	173	-	-	1120	557	-	630	13700	18200	4630	56.3	448	109
Antimony	ug/L	0.78	10 U	8.4 U	-	2.0 U	2.0 U	-	10.0 U	1.4 J	-	-	10.0 U	0.74 J	-	2.0 U	10.0 U	0.97 J	10.0 U	0.71 J	10.0 U	2.0 U
Arsenic	ug/L	0.052	4.2 U	5.9 U	-	2.0 U	2.0 U	-	5.0 U	2.0 U	-	-	5.0 U	2.0 U	-	4.8	6.6	6.1	5.0 U	2.0 U	5.0 U	2.0 U
Arsenic (dissolved)	ug/L	0.052	4.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	5.0 U	-	5.0 U	-
Barium	ug/L	380	255	223	-	60.9	62.7	-	89.3 J	65.0	-	-	85.1 J	71.4	-	139	176 J	357	171 J	89.3	91.6 J	56.3
Barium (dissolved)	ug/L	380	156 J	-	-	-	-	-	-	-	-	-	-	-	-	-	150 J	-	168 J	-	87.0 J	-
Cadmium	ug/L	0.92	4 U	5 U	-	2.0 U	2.0 U	-	5.0 U	2.0 U	-	-	5.0 U	2.0 U	-	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Chromium	ug/L	10	11.6	3.0 J	-	2.1 J	1.8 J	-	3.4 J	4.0 U	-	-	10.0 U	4.0 U	-	4.0 U	26.7	101	10.0 U	4.0 U	10.0 U	4.0 U
Chromium (dissolved)	ug/L	10	10 U	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	10.0 U	-	10.0 U	-
Cobalt	ug/L	0.6	50 U	100 U	-	4.0 U	4.0 U	-	50.0 U	4.0 U	-	-	3.6 J	13.2	-	6.6	8.9 J	14.0	16.5 J	2.3 J	50.0 U	4.0 U
Cobalt (dissolved)	ug/L	0.6	50 U	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7 J	-	16.6 J	-	50.0 U	-
Iron	ug/L	1400	6850	1270	-	189	204	-	2700	334	-	-	850	5360	-	2890	11100	24700	2380	779	452	96.6 J
Iron (dissolved)	ug/L	1400	150 U	-	-	-	-	-	-	-	-	-	-	-	-	-	61.5 J	-	571	-	150 U	-
Lead	ug/L	15	3 U	2.4 U	-	1.2 U	1.2 U	-	5.0 U	1.6	-	-	5.0 U	1.2 U	-	0.89 J	12.2 U	24.3	5.0 U	1.2 U	5.0 U	1.2 U
Manganese	ug/L	43	40.3	14.7 J	-	8.3	8.2	-	14.4 J	270	-	-	169	2130	-	1320	450	317	1210	200	392	141
Manganese (dissolved)	ug/L	43	25.2	-	-	-	-	-	-	-	-	-	-	-	-	-	323	-	1240	-	382	-
Mercury	ug/L	0.063	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.25	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	0.20 U	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20 U	-	0.20 U	-	0.20 U	-
Nickel	ug/L	39	11.7 J	65 U	-	2.8 J	2.9 J	-	4.1 J	4.0 U	-	-	7.8 J	5.6 U	-	10.8 U	30.6 J	45.0	17.4 J	5.6 U	6.6 J	5.6 U
Nickel (dissolved)	ug/L	39	6.0 J	-	-	-	-	-	-	-	-	-	-	-	-	-	17.9 J	-	16.5 J	-	6.8 J	-
Selenium	ug/L	10	5 U	5.7 U	-	10.0 U	10.0 U	-	10.0 U	10.0 U	-	-	10.0 U	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Selenium (dissolved)	ug/L	10	5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	10.0 U	-	10.0 U	-
Silver	ug/L	9.4	10 U	1.6 J	-	2.0 U	2.0 U	-	10.0 U	2.0 U	-	-	10.0 U	2.0 U	-	2.0 U	10.0 U	2.0 U	10.0 U	2.0 U	10.0 U	2.0 U
Thallium	ug/L	0.02	9.5 U	9.7 U	-	0.80 U	0.80 U	-	10.0 U	0.80 U	-	-	10.0 U	0.80 U	-	0.80 U	10.0 U	0.39 J	10.0 U	0.80 U	10.0 U	0.80 U
Vanadium	ug/L	8.6	14.8 J	2.9 J	-	4.0 U	4.0 U	-	4.7 J	1.9 J	-	-	2.3 J	2.0 J	-	3.6 J	32.5 J	72.8	3.3 J	4.0 U	5.2 J	4.0 U
Vanadium (dissolved)	ug/L	8.6	50 U	-	-	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	50.0 U	-	4.5 J	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
R - Rejected
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section
OU - Operable Unit
"- " - Not measured

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	OU-3	
Sample Location:			MW-26	MW-26	MW-32	MW-32	MW-32	MW-100	MW-100	MW-101	MW-101	MW-102	MW-103	MW-104	MW-105	MW-105	MW-105	MW-106	MW-110	MW-110	MW-110	MW-111
Sample Date:			10/31/2011	11/3/2017	11/2/2011	10/1/2012	11/3/2017	10/2/2012	11/3/2017	10/5/2012	11/3/2017	11/3/2017	11/3/2017	11/3/2017	11/3/2017	11/2/2011	10/11/2012	11/3/2017	11/3/2017	11/3/2011	10/1/2012	11/3/2017
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	7.8	2.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	-	5.6	1.0 U	-	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	1.0 U	-	-	1.0 U	-	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	0.32 J	1.0 U	-	-	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	R	5.0 U	R	R	5.0 U	R	5.0 U	R	5.0 U	5.0 U	5.0 U	5.0 U	2.5 J	-	5.0 U	5.0 U	-	R	5.0 U	5.0 U
2-Hexanone	ug/L	3.8	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U
Acetone	ug/L	1400	R	5.0 U	R	R	5.0 U	R	5.0 U	R	5.0 U	5.0 U	7.1 U	5.0 U	26 J	-	5.0 U	5.0 U	-	R	5.0 U	5.0 U
Benzene	ug/L	0.46	1.8	0.66 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	-	5.4	1.0 U	-	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	0.46	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	0.70 J
cis-1,2-Dichloroethene	ug/L	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.85 J	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.6	-	1.2	1.0 U	-	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	45	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	3.2	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	0.20 J	0.54 J	1.0 U	0.23 J	0.32 J	1.0 U	-	1.0 U	0.14 J	-	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U	0.37 J	1.0 U
Tetrachloroethene	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	0.24 J	0.32 J	1.0 U	-	1.0 U	1.0 U	-	0.30 J	0.50 J	0.59 J
Toluene	ug/L	110	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.4	-	6.7	1.0 U	-	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	0.28	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	0.20 J	1.0 U	0.31 J
Vinyl chloride	ug/L	0.019	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	0.80 J	1.0 U	-	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	19	0.48 J	2.0 U	3.0 U	3.0 U	2.0 U	3.0 U	2.0 U	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	11	-	5.4	2.0 U	-	3.0 U	2.0 U	2.0 U
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
2,4-Dimethylphenol	ug/L	36	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	1.7 J	10 U	-	-	10 U	10 U
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	-	-	2.0 U	-	2.1 U	-	2.1 U	2.0 U	2.1 U	2.1 U	2.0 U	-	2.0 U	2.0 U	-	-	2.0 U	2.0 U
2-Methylnaphthalene	ug/L	3.6	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
2-Methylphenol	ug/L	93	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
4-Chloroaniline	ug/L	0.37	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
4-Methylphenol	ug/L	190	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	4.1 J	-	10 U	10 U	-	-	10 U	10 U
Acetophenone	ug/L	190	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
Benzaldehyde	ug/L	19	10 UJ	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 UJ	-	10 U	10 U	-	-	10 U	10 U
Benzo(a)anthracene	ug/L	0.03	0.051 U	1.0 U	-	-	1.0 U	-	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	0.024 J	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	0.051 U	1.0 U	-	-	1.0 U	-	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	0.051 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	2.0 U	-	-	2.0 U	-	2.1 U	-	2.1 U	2.0 U	2.1 U	2.1 U	10 U	-	2.0 U	2.0 U	-	-	2.0 U	2.0 U
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	-	-	1.0 U	-	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	-	-	1.0 U	-	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U
Naphthalene	ug/L	0.17	10 U	10 U	-	-	10 U	-	10 U	-	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	-	-	10 U	10 U
Pentachlorophenol	ug/L	0.041	0.20 U	20 U	-	-	20 U	-	21 U	-	21 U	20 U	21 U	21 U	0.20 U	-	20 U	20 U	-	-	20 U	20 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-3 MW-26 10/31/2011 -	OU-3 MW-26 11/3/2017 -	OU-3 MW-32 11/2/2011 -	OU-3 MW-32 10/1/2012 -	OU-3 MW-32 11/3/2017 -	OU-3 MW-100 10/2/2012 -	OU-3 MW-100 11/3/2017 -	OU-3 MW-101 10/5/2012 -	OU-3 MW-101 11/3/2017 -	OU-3 MW-102 11/3/2017 -	OU-3 MW-103 11/3/2017 -	OU-3 MW-104 11/3/2017 -	OU-3 MW-105 11/2/2011 -	OU-3 MW-105 10/11/2012 -	OU-3 MW-105 11/3/2017 -	OU-3 MW-106 11/3/2017 -	OU-3 MW-110 11/3/2011 -	OU-3 MW-110 10/1/2012 -	OU-3 MW-110 11/3/2017 -	OU-3 MW-111 11/5/2017 -
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	103 J	64.8	13100	-	74.0	-	155	-	106	1870	43.9	307	584	335	180	77.8	-	-	198	34.9 J
Antimony	ug/L	0.78	10.0 U	0.87 J	10.0 U	-	0.64 J	-	2.0 U	-	2.0 U	1.8 J	0.63 J	0.66 J	10.0 U	10.0 U	1.3 J	2.8	-	-	0.69 J	2.0 U
Arsenic	ug/L	0.052	5.0 U	8.3	4.0 J	-	2.0 U	-	2.0 U	-	2.0 U	0.99 J	2.0 U	2.0 U	5.8	5.7	3.4	2.0 U	-	-	2.0 U	2.0 U
Arsenic (dissolved)	ug/L	0.052	5.0 U	-	5.0 U	-	-	-	-	-	-	-	-	-	4.8 J	5.7	-	-	-	-	-	-
Barium	ug/L	380	141 J	30.7	139 J	-	51.8	-	76.7	-	69.2	58.4	170	399	123 J	84.6 J	64.9	249	-	-	1370	452
Barium (dissolved)	ug/L	380	134 J	-	82.3 J	-	-	-	-	-	-	-	-	-	102 J	67.2 J	-	-	-	-	-	-
Cadmium	ug/L	0.92	5.0 U	2.0 U	5.0 U	-	2.0 U	-	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	5.0 U	2.0 U	2.0 U	-	-	1.8 J	2.0 U
Chromium	ug/L	10	10.0 U	4.0 U	36.9	-	5.8	-	3.2 J	-	4.0 U	4.0 U	4.0 U	4.0 U	10.0 U	10.0 U	4.0 U	4.0 U	-	-	2.0 J	5.3
Chromium (dissolved)	ug/L	10	10.0 U	-	10.0 U	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U	-	-	-	-	-	-
Cobalt	ug/L	0.6	50.0 U	4.0 U	25.7 J	-	9.4	-	4.0 U	-	1.5 J	4.0 U	4.0 U	4.0 U	50.0 U	50.0 U	4.0 U	4.0 U	-	-	35.9	2.4 J
Cobalt (dissolved)	ug/L	0.6	50.0 U	-	20.0 J	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	-	-	-	-	-	-
Iron	ug/L	1400	150 U	120 U	10100	-	59.9 J	-	75.2 J	-	74.5 J	120 U	120 U	203	83.0 J	150 U	63.5 J	63.5 J	-	-	270	68.6 J
Iron (dissolved)	ug/L	1400	150 U	-	150 U	-	-	-	-	-	-	-	-	-	150 U	150 U	-	-	-	-	-	-
Lead	ug/L	15	5.0 U	1.2 U	8.4	-	1.2 U	-	1.2 U	-	1.2 U	1.2 U	1.2 U	1.2 U	5.0 U	5.0 U	1.2 U	1.2 U	5.0 U	-	1.2 U	1.2 U
Manganese	ug/L	43	5.8 J	32.7	327	-	69.8	-	8.0 U	-	208	275	35.6	86.2	15.0 U	15.0 U	8.0 U	105	-	-	2100	113
Manganese (dissolved)	ug/L	43	15.0 U	-	236	-	-	-	-	-	-	-	-	-	15.0 U	15.0 U	-	-	-	-	-	-
Mercury	ug/L	0.063	0.20 U	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.19 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.36
Mercury (dissolved)	ug/L	0.063	0.20 U	-	0.20 U	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-
Nickel	ug/L	39	40.0 U	6.1 U	27.2 J	-	8.4 U	-	4.0 U	-	5.6 U	5.6 U	5.6 U	6.6 U	19.3 J	13.9 J	5.5 U	5.6 U	-	-	39.8	9.6 U
Nickel (dissolved)	ug/L	39	4.0 J	-	17.6 J	-	-	-	-	-	-	-	-	-	20.3 J	13.0 J	-	-	-	-	-	-
Selenium	ug/L	10	10.0 U	10.0 U	10.0 U	-	10.0 U	-	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	-	10.0 U	3.1 J
Selenium (dissolved)	ug/L	10	10.0 U	-	10.0 U	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U	-	-	-	-	-	-
Silver	ug/L	9.4	10.0 U	2.0 U	10.0 U	-	2.0 U	-	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U
Thallium	ug/L	0.02	10.0 U	0.80 U	10.0 U	-	0.80 U	-	0.80 U	-	0.80 U	0.80 U	0.80 U	0.80 U	10.0 U	10.0 U	0.80 U	0.80 U	-	-	0.80 U	0.80 U
Vanadium	ug/L	8.6	11.8 J	4.8	32.1 J	-	4.0 U	-	4.0 U	-	4.0 U	6.8	4.0 U	4.0 U	18.9 J	10.6 J	3.1 J	2.8 J	-	-	4.0 U	4.0 U
Vanadium (dissolved)	ug/L	8.6	12.0 J	-	50.0 U	-	-	-	-	-	-	-	-	-	13.3 J	10.4 J	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
R - Rejected
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section
OU - Operable Unit
"- " - Not measured

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-4 MW27 9/17/2013 -	OU-4 MW28 9/17/2013 -	OU-4 MW29 9/17/2013 -	OU-4 MW35 9/17/2013 -	OU-4 MW35 10/13/2015 -	OU-4 DA-MW36S 12/18/2018 -	OU-4 DA-MW39 6/28/2013 -	OU-4 DA-MW39 9/18/2013 -	OU-4 DA-MW39 10/13/2015 -	OU-4 DA-MW41 10/14/2015 -	OU-4 DA-MW43 3/26/2013 -	OU-4 DA-MW43 6/27/2013 -	OU-4 DA-MW43 9/17/2013 -	OU-4 DA-MW44 3/26/2013 -	OU-4 DA-MW44 6/27/2013 -	OU-4 DA-MW44 9/17/2013 -	OU-4 DA-MW44 10/13/2015 -	OU-4 DA-MW47 6/27/2013 -	OU-4 DA-MW47 9/17/2013 -
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																			
Volatile Organic Compounds																					
1,1-Dichloroethane	ug/L	2.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	11	1.0 U	1.0 U	1.0 U	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.73 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/L	3.8	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	23	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	19	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	ug/L	1400	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	12 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.46	1.0 U	1.0 U	9.6	0.24 J	0.42 J	32	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.97 J	1.0 U	1.0 U	1.0 U	1.2	6.4
Carbon tetrachloride	ug/L	0.46	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	7.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	0.40 J	0.25 J	0.15 J	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	3.6	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.5	1.0 U	1.0 U	1.3	1.0 U	1.0 U	20	1.0 U	1.0 U	1.0 U	110	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	45	1.0 U	1.0 U	0.62 J	1.0 U	1.0 U	0.85 J	1.0 U	1.0 U	1.0 U	16	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J
Methyl tert butyl ether (MTBE)	ug/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1	1.0 U	1.0 U	1.0 U	0.13 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	110	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	4.9	1.0 U	1.0 U	1.0 U	44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	0.28	1.0 U	1.0 U	1.0 U	3.5	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 J	1.0 U	0.12 J	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.019	1.0 U	1.0 U	23	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	19	3.0 U	3.0 U	0.91 J	3.0 U	2.0 U	21	3.0 U	3.0 U	2.0 U	210	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	3.0 U	0.15 J
Volatile Organic Compounds - Tentatively Identified Compounds																					
Total VOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	110	N/A	N/A	N/A	1890	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																					
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36	10 U	10 U	10 U	10 U	10 U	3.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	ug/L	3.6	10 U	10 U	10 U	10 U	10 U	3.3 J	10 U	10 U	10 U	4.1 J	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	93	10 U	10 U	10 U	10 U	10 U	7.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	190	10 U	10 U	10 U	10 U	10 U	26	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Acetophenone	ug/L	190	10 U	10 U	10 U	10 U	10 U	17	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	19	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U*	10 UJ	10 U	10 U	10 UJ	10 U*	10 UJ	11 UJ	10 U*	10 UJ	10 U	10 U*	10 UJ
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	10 U	10 U	6.6 B	3.2	10 U	10 U	11 B	4.6 B	10 U	10 U	10 U	11 U	10 U	10 U	6.6 B	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	0.17	10 U	10 U	10 U	10 U	10 U	4.4 J	10 U	10 U	10 U	69	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	0.041	31 U	30 U	30 U	30 U	20 U	20 U	31 U	30 U	20 U	20 U	31 U	31 U	31 U	33 U	31 U	30 U	20 U	31 U	31 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																					
Total SVOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	1368	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			MW27	MW28	MW29	MW35	MW35	DA-MW36S	DA-MW39	DA-MW39	DA-MW39	DA-MW41	DA-MW43	DA-MW43	DA-MW43	DA-MW44	DA-MW44	DA-MW44	DA-MW44	DA-MW47	DA-MW47
Sample Date:			9/17/2013	9/17/2013	9/17/2013	9/17/2013	10/13/2015	12/18/2018	6/28/2013	9/18/2013	10/13/2015	10/14/2015	3/26/2013	6/27/2013	9/17/2013	3/26/2013	6/27/2013	9/17/2013	10/13/2015	6/27/2013	9/17/2013
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parameters	Units	DNREC-SIRS																			
		Screening Levels (November 2021)																			
Metals																					
Aluminum	ug/L	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Notes:																					
U - Not detected at the associated reporting limit																					
J - Estimated concentration																					
UJ - Not detected; associated reporting limit is estimated																					
R - Rejected																					
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																					
OU - Operable Unit																					
"- " - Not measured																					

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-4 DA-MW47 10/13/2015 -	OU-4 DA-MW49 12/18/2018 -	OU-4 DA-MW50 12/18/2018 -	OU-4 MW109 9/17/2013 -	OU-4 MW111 9/17/2013 -	OU-4 MW-30 11/1/2011 -	OU-4 MW-30 10/22/2012 -	OU-4 MW-30 9/18/2013 -	OU-4 MW-30 10/14/2015 -	OU-4 MW-30 11/5/2017 -	OU-4 MW-31 11/1/2011 -	OU-4 MW-31 9/17/2013 -	OU-4 MW-31 11/5/2017 -	OU-4 MW-36D 10/23/2012 -	OU-4 MW-36D 9/18/2013 -	OU-4 MW-36D 10/14/2015 -	OU-4 MW-36D 11/4/2017 -	OU-4 MW-36S 10/22/2012 -	OU-4 MW-36S 9/18/2013 -
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																			
Volatile Organic Compounds																					
1,1-Dichloroethane	ug/L	2.8	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	1.0 U	440	35	1.0 U	1.0 U	-	0.30 J	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	13	5.7	290	1.0 U	550 D	300
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.6 J
1,2-Dichlorobenzene	ug/L	30	1.0 U	5.0 U	1.1 J	1.0 U	1.0 U	0.52 J	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.17	1.0 U	10	1.2 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	31	29	9.5	15	3.8	10
1,3,5-Trimethylbenzene	ug/L	6	-	220	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	5.0 U	22 J	10 U	5.0 U	5.0 U	R	5.0 U	5.0 U	5.0 U	5.0 U	R	5.0 U	5.0 U	5.0 U	25 U	12	5.0 U	17	44
2-Hexanone	ug/L	3.8	5.0 U	25 U	10 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	25 U	5.0 J	5.0 U	6.7	19 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/L	630	5.0 U	25 U	10 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	1.8 J	25 U	5.8 J	5.0 U	16	25 U
Acetone	ug/L	1400	5.0 U	32	15 U	5.0 U	5.0 U	R	R	5.0 U	5.0 U	5.0 U	R	5.0 U	5.0 U	R	25 U	20	5.0 U	R	25 U
Benzene	ug/L	0.46	4.5	480	79	1.0 U	1.0 U	23	1.8	2.4	0.24 J	0.12 J	1.0 U	1.0 U	1.0 U	830	850	720	220	500	800
Carbon tetrachloride	ug/L	0.46	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
Chlorobenzene	ug/L	7.8	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0	1.4 J	2.0 U	1.0 U	10	7.2
cis-1,2-Dichloroethene	ug/L	3.6	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	0.38 J	1.0 U	5.0 U
Ethylbenzene	ug/L	1.5	1.0 U	590	350	1.0 U	1.0 U	0.44 J	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.7	5.6	490	0.46 J	1000	480
Isopropyl benzene	ug/L	45	1.1	51	25	1.0 U	1.0 U	4.8	0.62 J	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	16	20	15	10	29	15
Methyl tert butyl ether (MTBE)	ug/L	10	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J	5.0 U	1.2 J	1.0 U	0.56 J	5.0 U
Methylene chloride	ug/L	5	1.0 U	91	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
Tetrachloroethene	ug/L	1	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	0.85 J	1.0	0.61 J	0.45 J	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
Toluene	ug/L	110	1.0 U	1200	170	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20	6.1	130	1.6	1600	440
Trichloroethene	ug/L	0.28	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 J	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
Vinyl chloride	ug/L	0.019	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	5.0 U
Xylenes (total)	ug/L	19	2.0 U	2800	610	3.0 U	3.0 U	3.0 U	1.3 J	3.0 U	2.0 U	2.0 U	3.0 U	3.0 U	2.0 U	65	23	1200	1.4 J	4000	1700
Volatile Organic Compounds - Tentatively Identified Compounds																					
Total VOC TICs	ug/L	-	6.8	3670	1515	N/A	N/A	186	38.8	9.5	N/A	N/A	N/A	N/A	N/A	1945	1212	2230	634	6820	1530
Semi-volatile Organic Compounds																					
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36	10 U	5.8 J	2.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 J	10 U
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
2-Methylnaphthalene	ug/L	3.6	10 U	42	99	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.6 J	150	10 U	130	180
2-Methylphenol	ug/L	93	10 U	9.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.2 J	10 U
4-Chloroaniline	ug/L	0.37	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	190	10 U	9.9 J	1.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4.9 J	2.4 J
Acetophenone	ug/L	190	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	26	10 U	10 U	28
Benzaldehyde	ug/L	19	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.051 U	0.052 U	1.0 U	1.0 U	1.0 U	0.051 U	1.0 U	1.0 U	0.052 U	1.0 U	1.0 U	1.0 U	0.052 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.051 U	0.052 U	1.0 U	1.0 U	1.0 U	0.051 U	1.0 U	1.0 U	0.052 U	1.0 U	1.0 U	1.0 U	0.052 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12	0.74 J	8.6 J	11
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	6.4 B	2.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	8.0 B	2.0 U	10 U	10 U	2.0 U	10 U	10 U	8.3 B	2.0 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 J	1.0 U
Dibenzofuran	ug/L	0.79	10 U	10 U	1.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.7 J	10 U	3.0 J	3.8 J
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J	1.0 U
Naphthalene	ug/L	0.17	1.9 J	160	71	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	17	22	180	10 U	270	240
Pentachlorophenol	ug/L	0.041	20 U	20 U	20 U	30 U	30 U	0.20 U	0.21 U	30 U	20 U	20 U	0.20 U	30 U	20 U	0.21 U	31 U	20 U	20 U	0.21 U	31 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																					
Total SVOC TICs	ug/L	-	94.8	2291	1225	N/A	N/A	626.5	253.2	N/A	N/A	N/A	N/A	N/A	N/A	1245	1013	16680	926	6913	3631

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			DA-MW47	DA-MW49	DA-MW50	MW109	MW111	MW-30	MW-30	MW-30	MW-30	MW-30	MW-31	MW-31	MW-31	MW-36D	MW-36D	MW-36D	MW-36D	MW-36S	MW-36S
Sample Date:			10/13/2015	12/18/2018	12/18/2018	9/17/2013	9/17/2013	11/1/2011	10/22/2012	9/18/2013	10/14/2015	11/5/2017	11/1/2011	9/17/2013	11/5/2017	10/23/2012	9/18/2013	10/14/2015	11/4/2017	10/22/2012	9/18/2013
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parameters	Units	DNREC-SIRS																			
		Screening Levels (November 2021)																			
Metals																					
Aluminum	ug/L	2000	-	-	-	-	-	2910	4070	-	-	40.0 U	1920	-	64.8	274	-	-	63.2	3140	-
Antimony	ug/L	0.78	-	-	-	-	-	10.0 U	10.0 U	-	-	2.0 U	10.0 U	-	2.0 U	10.0 U	-	-	2.0 U	10.0 U	-
Arsenic	ug/L	0.052	-	-	-	-	-	5.0 U	4.9 J	-	-	2.0 U	5.0 U	-	2.0 U	5.0 U	-	-	0.75 J	4.4 J	-
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	5.0 U	5.0 U	-	-	-	5.0 U	-	-	5.0 U	-	-	-	5.0 U	-
Barium	ug/L	380	-	-	-	-	-	428	395	-	-	187	266	-	63.3	259	-	-	601	278	-
Barium (dissolved)	ug/L	380	-	-	-	-	-	299	411	-	-	-	256	-	-	256	-	-	-	227	-
Cadmium	ug/L	0.92	-	-	-	-	-	5.0 U	5.0 U	-	-	2.0 U	5.0 U	-	2.0 U	5.0 U	-	-	2.0 U	5.0 U	-
Chromium	ug/L	10	-	-	-	-	-	4.6 J	4.8 J	-	-	4.0 U	10.0 U	-	1.4 J	10.0 U	-	-	4.0 U	10.0 U	-
Chromium (dissolved)	ug/L	10	-	-	-	-	-	10.0 U	10.0 U	-	-	-	10.0 U	-	-	10.0 U	-	-	-	10.0 U	-
Cobalt	ug/L	0.6	-	-	-	-	-	137	107	-	-	55.1	3.1 J	-	4.0 U	22.1 J	-	-	38.0	139	-
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	69.0	90.5	-	-	-	50.0 U	-	-	21.4 J	-	-	-	124	-
Iron	ug/L	1400	-	-	-	-	-	12300	9420	-	-	5100	3160	-	70.2 J	1590	-	-	6760	66200	-
Iron (dissolved)	ug/L	1400	-	-	-	-	-	1140	150 U	-	-	-	928	-	-	1200	-	-	-	2390	-
Lead	ug/L	15	-	-	-	-	-	5.0 U	5.0 U	-	-	1.2 U	5.0 U	-	1.2 U	5.0 U	-	-	1.2 U	5.0 U	-
Manganese	ug/L	43	-	-	-	-	-	30400	27600	-	-	11400	1410	-	69.7	2120	-	-	8480	29300	-
Manganese (dissolved)	ug/L	43	-	-	-	-	-	20300	28400	-	-	-	1420	-	-	2080	-	-	-	29100	-
Mercury	ug/L	0.063	-	-	-	-	-	0.20 U	0.20 U	-	-	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-	0.20 U	0.20 U	-
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	0.20 U	0.20 U	-	-	-	0.20 U	-	-	0.20 U	-	-	-	0.20 U	-
Nickel	ug/L	39	-	-	-	-	-	8.3 J	5.5 J	-	-	5.6 U	40.0 U	-	4.0 U	6.0 J	-	-	5.6 U	40.0 U	-
Nickel (dissolved)	ug/L	39	-	-	-	-	-	6.4 J	40.0 U	-	-	-	40.0 U	-	-	6.0 J	-	-	-	40.0 U	-
Selenium	ug/L	10	-	-	-	-	-	10.0 U	14.1 U	-	-	10.0 U	10.0 U	-	1.3 J	10.0 U	-	-	10.0 U	10.0 U	-
Selenium (dissolved)	ug/L	10	-	-	-	-	-	10.0 U	30.0 U	-	-	-	10.0 U	-	-	6.5 J	-	-	-	30.0 U	-
Silver	ug/L	9.4	-	-	-	-	-	2.5 J	6.5 J	-	-	2.0 U	10.0 U	-	2.0 U	10.0 U	-	-	2.0 U	7.0 J	-
Thallium	ug/L	0.02	-	-	-	-	-	10.0 U	30.0 U	-	-	0.36 J	10.0 U	-	0.80 U	10.0 U	-	-	0.80 U	27.4 J	-
Vanadium	ug/L	8.6	-	-	-	-	-	4.4 J	6.9 J	-	-	4.0 U	2.2 J	-	4.0 U	50.0 U	-	-	4.0 U	7.3 J	-
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	50.0 U	50.0 U	-	-	-	50.0 U	-	-	50.0 U	-	-	-	50.0 U	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
R - Rejected
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section
OU - Operable Unit
"- " - Not measured

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			MW-36S	MW-36S	MW-36S	MW-36S	MW-37	MW-37	MW-37	MW-37	MW-38	MW-39	MW-40	MW-40	MW-40	MW-41	MW-41	MW-41	MW-41	MW-41	
Sample Date:			9/18/2013	10/14/2015	11/4/2017	8/28/2018	11/16/2012	9/18/2013	10/13/2015	11/6/2017	10/22/2012	10/22/2012	10/22/2012	6/28/2013	9/18/2013	10/22/2012	10/22/2012	10/22/2012	6/28/2013	9/18/2013	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)																		
Parameters	Units	DNREC-SIRS																			
		Screening Levels (November 2021)																			
Volatile Organic Compounds																					
1,1-Dichloroethane	ug/L	2.8	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2,4-Trichlorobenzene	ug/L	0.4	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2,4-Trimethylbenzene	ug/L	5.6	280	2.3	270	53	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	480	1.0 U	1.0 U	43	40	1.0 U	1.0 U	1.0 U	470
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	1.8 J	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichlorobenzene	ug/L	30	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloroethane	ug/L	0.17	11	15	30	1.0 U	1.4	0.30 J	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	36
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	79	10 U	20	14	R	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	74
2-Hexanone	ug/L	3.8	25 U	10 U	10 U	23	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	630	25 U	10 U	17	30	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.9 J	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	21 J
Acetone	ug/L	1400	25 U	10 U	58	28	R	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	140
Benzene	ug/L	0.46	860	500	750	52	22	1.9	2.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1500
Carbon tetrachloride	ug/L	0.46	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Chlorobenzene	ug/L	7.8	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Chloroform (Trichloromethane)	ug/L	0.22	7.9	2.0 U	2.0 U	1.0 U	1.0 U	0.15 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.7	1.6	2.0 U	2.0 U	1.0 U	1.0 U	10 U
cis-1,2-Dichloroethene	ug/L	3.6	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Ethylbenzene	ug/L	1.5	460	3.5	510	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	150	1.0 U	1.0 U	560	620	1.0 U	1.9	0.63 J	710
Isopropyl benzene	ug/L	45	14	14	16	2.9	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22	1.0 U	1.0 U	34	38	1.0 U	0.52 J	0.24 J	37
Methyl tert butyl ether (MTBE)	ug/L	10	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Methylene chloride	ug/L	5	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Tetrachloroethene	ug/L	1	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Toluene	ug/L	110	360	2.7	78	9.9	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	1.0 U	1.0 U	250	280	1.0 U	1.7	0.55 J	2700
Trichloroethene	ug/L	0.28	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Vinyl chloride	ug/L	0.019	5.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10 U
Xylenes (total)	ug/L	19	1500	10	780	190	0.56 J	3.0 U	2.0 U	2.0 U	3.0 U	3.0 U	720	3.0 U	3.0 U	300	330	3.0 U	3.0 U	3.0 U	4100
Volatile Organic Compounds - Tentatively Identified Compounds																					
Total VOC TICs	ug/L	-	1430	1023	1530	270	54.5	N/A	6.7	N/A	N/A	N/A	2990	12.9	N/A	2158	2442	N/A	493	177.8	6380
Semi-volatile Organic Compounds																					
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	36	10 U	10 U	33	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	4.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U	-	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	ug/L	3.6	170	10 U	120	9.2 J	10 U	10 U	10 U	10 UJ	10 U	10 U	18	10 U	10 U	11	7.6 J	-	10 U	10 U	43
2-Methylphenol	ug/L	93	10 U	10 U	18 J	2.7 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	10 U
4-Chloroaniline	ug/L	0.37	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	10 U
4-Methylphenol	ug/L	190	2.4 J	10 U	10 J	38	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2.7 J	5.8 J	-	10 U	10 U	17
Acetophenone	ug/L	190	10 U	10 U	48	6.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	37
Benzaldehyde	ug/L	19	10 UJ	10 U	20 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U*	10 U*	10 U*	10 U*	10 UJ	10 U*	11 U*	-	10 U*	10 UJ	10 U
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	2.0 U	1.0 U	0.052 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	2.0 U	1.0 U	0.052 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10	10 U	10 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	8.7 B	4.0 U	2.0 U	10 U	10 U	11 B	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	10 B
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U
Dibenzofuran	ug/L	0.79	3.6 J	10 U	3.6 J	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	11 U	-	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	2.0 U	2.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	-	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	0.17	240	10	180	12	4.8 J	10 U	10 U	10 UJ	10 U	10 U	82	10 U	10 U	150	120	-	26	10 U	180
Pentachlorophenol	ug/L	0.041	31 U	20 U	40 U	20 U	0.21 U	31 U	20 U	20 U	30 U	30 U	31 U	31 U	31 U	31 U	32 U	-	31 U	31 U	20 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																					
Total SVOC TICs	ug/L	-	3515	663	3942	1313	76	8.2	10	N/A	N/A	N/A	1428	13	N/A	2103	1736	N/A	94	118.4	3110

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4
Sample Location:			MW-36S	MW-36S	MW-36S	MW-36S	MW-37	MW-37	MW-37	MW-37	MW-38	MW-39	MW-40	MW-40	MW-40	MW-41	MW-41	MW-41	MW-41	MW-41
Sample Date:			9/18/2013	10/14/2015	11/4/2017	8/28/2018	11/16/2012	9/18/2013	10/13/2015	11/6/2017	10/22/2012	10/22/2012	10/22/2012	6/28/2013	9/18/2013	10/22/2012	10/22/2012	10/22/2012	6/28/2013	9/18/2013
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)																	
			DNREC-SIRS																	
Parameters	Units	Screening Levels (November 2021)																		
Metals																				
Aluminum	ug/L	2000	-	-	34.3 J	-	782	-	-	201	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	0.78	-	-	0.65 J	-	10.0 U	-	-	2.0 U	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	-	-	2.4	-	5.0 U	-	-	1.1 J	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	-	-	324	-	901	-	-	1060	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	380	-	-	-	-	769	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.92	-	-	2.0 U	-	5.0 U	-	-	2.0 U	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10	-	-	4.0 U	-	10.0 U	-	-	25.6	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	-	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	-	-	111	-	68.8	-	-	52.9	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	62.6	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	-	-	89300	-	926	-	-	322	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	1400	-	-	-	-	124 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	-	-	0.86 J	-	4.8 J	-	-	2.3	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	-	-	32400	-	1750	-	-	1350	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	43	-	-	-	-	1640	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.063	-	-	0.20 U	-	0.20 U	-	-	4.0	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.063	-	-	-	-	0.20 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	-	-	5.6 U	-	12.5 J	-	-	76.7	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	39	-	-	-	-	11.6 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	-	-	1.2 J	-	10.0 U	-	-	4.3 J	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	10	-	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	-	-	2.0 U	-	10.0 U	-	-	2.0 U	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	-	-	0.80 U	-	10.0 U	-	-	0.80 U	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	-	-	4.0 U	-	50.0 U	-	-	4.0 U	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	50.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
R - Rejected
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section
OU - Operable Unit
"- " - Not measured

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			MW-49	MW-49	MW-49	MW-50	MW-50	MW-50	MW-50	MW-42	MW-42	SVE01	SVE01	SVE03	SVE03	SVE03	SVE03	SVE03	SVE06	SVE06	
Sample Date:			10/14/2015	11/6/2017	8/28/2018	10/14/2015	11/7/2017	11/7/2017	8/28/2018	8/28/2018	8/28/2018	8/28/2018	12/18/2018	8/28/2018	8/28/2018	8/28/2018	12/18/2018	12/18/2018	8/28/2018	12/18/2018	8/8/2012
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)				(Duplicate)			(Duplicate)							(Duplicate)				
Parameters	Units	DNREC-SIRS																			
		Screening Levels (November 2021)																			
Volatile Organic Compounds																					
1,1-Dichloroethane	ug/L	2.8	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	ug/L	0.4	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
1,2,4-Trimethylbenzene	ug/L	5.6	480	430	460	65	130	140	23	680	1.0 U	170	500	160	200	1.0 U	210	190	32 F1	34	
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	ug/L	30	20 U	10 U	10 U	1.2 J	5.0 U	10 U	1.4	2.0 U	1.0 U	2.2	10	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	3.7	
1,2-Dichloroethane	ug/L	0.17	41	71	46	3.3 J	24	27	1.0 U	2.0 U	1.0 U	1.0 U	2.2 J	6.6	8.1	1.0 U	5.0 U	1.8 J	1.0 U	1.0 U	
1,3,5-Trimethylbenzene	ug/L	6	-	-	230	-	-	-	18	230	1.0 U	50	130	69	90	1.0 U	70	61	27 F1	17	
1,4-Dichlorobenzene	ug/L	0.48	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.1	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.2	
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	90 J	50 U	41 J	25 U	25 U	50 U	5.0 U	31	5.0 U	31	20 J	14	10	5.0 U	25 U	5.5 J	5.0 U	61 J	
2-Hexanone	ug/L	3.8	100 U	50 U	50 U	25 U	25 U	50 U	5.0 U	26	5.0 U	5.0 U	25 U	10 U	14	5.0 U	25 U	10 U	5.0 U	2.2 J	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	24 J	25 J	50 U	25 U	25 U	50 U	5.0 U	10 U	5.0 U	5.0 U	25 U	10 U	10 U	5.0 U	25 U	10 U	5.0 U	5.0 U	
Acetone	ug/L	1400	170	50 U	76	25 U	25 U	50 U	5.0 U	88	5.0 U	76	68	39	33	5.0 U	25 U	17 U	5.0 U	280 J	
Benzene	ug/L	0.46	1400	1200	590	110	450	420	84	2.6	1.0 U	49	110	45	55	1.0 U	39	40	1.0 U	390	
Carbon tetrachloride	ug/L	0.46	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
Chlorobenzene	ug/L	7.8	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	0.63 J	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	0.24 J	
Chloroform (Trichloromethane)	ug/L	0.22	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	ug/L	3.6	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
Ethylbenzene	ug/L	1.5	710	700	470	640	690	720	230	570	1.0 U	150	500	210	270	1.0 U	250	250	11 F1	760	
Isopropyl benzene	ug/L	45	39	42	43	37	51	47	30	45	1.0 U	9.4	27	12	15	1.0 U	11	9.9	14 F1	46	
Methyl tert butyl ether (MTBE)	ug/L	10	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
Methylene chloride	ug/L	5	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	0.43 J	5.0 U	2.0 U	1.0 UF1	1.0 U	
Tetrachloroethene	ug/L	1	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	0.59 J	1.3 J	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
Toluene	ug/L	110	2600	2200	1300	760	630	680	110	240	1.0 U	110	420	380	580 HD	1.0 U	580	580	1.0 U	1900	
Trichloroethene	ug/L	0.28	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
Vinyl chloride	ug/L	0.019	20 U	10 U	10 U	5.0 U	5.0 U	10 U	1.0 U	2.0 U	1.0 U	1.0 U	5.0 U	2.0 U	2.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	
Xylenes (total)	ug/L	19	3900	3500	2400	1200	1700	1800	310	1600	2.0 U	560	1600	860	1100	2.0 U	1100	1100	13	1200	
Volatile Organic Compounds - Tentatively Identified Compounds																					
Total VOC TICs	ug/L	-	5830	3980	3020	4160	3610	3630	1388	1990	N/A	768	2070	1182	1635	N/A	1440	1304	701	630	
Semi-volatile Organic Compounds																					
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	-	
2,4-Dimethylphenol	ug/L	36	4.2 J	18	10 U	4.5 J	20	21	5.2 J	20 U	10 U	10 U	1.5 J	10 U	10 U	-	4.2 J	5.0 J	10 U	-	
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	-	
2-Methylnaphthalene	ug/L	3.6	34	42 J	35	100	89 J	100 J	87	23	10 U	3.4 J	15	25	20	-	16	17	8.6 J	-	
2-Methylphenol	ug/L	93	10 U	15	12	2.6 J	6.4 J	6.7 J	2.1 J	20 U	10 U	10 U	10 U	19	18	-	21	21	10 U	-	
4-Chloroaniline	ug/L	0.37	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	-	
4-Methylphenol	ug/L	190	13	18	15	3.9 J	5.0 J	10 U	1.7 J	2.2 J	10 U	10 U	1.2 J	130	120	-	53	50	10 U	-	
Acetophenone	ug/L	190	29	47	29	25	37	39	10 U	35	10 U	6.2 J	13	10 U	10 U	-	10 U	10 U	29	-	
Benzaldehyde	ug/L	19	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	-	
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	-	
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	-	
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	10 U	2.2 J	2.0 J	2.1 J	10 U	20 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	-	
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	13 B	2.0 U	2.0 U	7.2 B	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	-	
Dibenz(a,h)anthracene	ug/L	0.025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	-	
Dibenzofuran	ug/L	0.79	10 U	10 UJ	10 U	1.6 J	2.6 J	2.9 J	1.7 J	20 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	-	
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	-	
Naphthalene	ug/L	0.17	140	110 J	120	180	130 J	140 J	100	260	10 U	42	100	62	49	-	32	35	5.3 J	-	
Pentachlorophenol	ug/L	0.041	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	-	20 U	20 U	20 U	-	
Semi-volatile Organic Compounds - Tentatively Identified Compounds																					
Total SVOC TICs	ug/L	-	3532	2125	2148	2353	1861	1785	841	3468	N/A	544.5	2371	1346	1382	N/A	1602	1461	486.6	N/A	

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4		OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4
Sample Location:			MW-49		MW-49	MW-49	MW-50	MW-50	MW-50	MW-50	MW-42	MW-42	SVE01	SVE01	SVE03	SVE03	SVE03	SVE03	SVE06
Sample Date:			10/14/2015		11/6/2017	8/28/2018	10/14/2015	11/7/2017	11/7/2017	8/28/2018	8/28/2018	8/28/2018	8/28/2018	12/18/2018	8/28/2018	8/28/2018	8/28/2018	12/18/2018	12/18/2018
Sample Depth:			-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)					(Duplicate)			(Duplicate)						(Duplicate)		
Parameters			Units	DNREC-SIRS Screening Levels (November 2021)															
Metals																			
Aluminum	ug/L	2000	-	163	-	-	196	233	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	0.78	-	2.0 U	-	-	2.0 U	0.62 J	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	-	4.8	-	-	3.4	3.4	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	-	433	-	-	249	253	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.92	-	2.0 U	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10	-	4.0 U	-	-	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	-	29.6	-	-	9.2	9.2	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	-	86300	-	-	46700	47500	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	-	1.8	-	-	1.1 J	1.2	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	-	13400	-	-	4340	4440	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.063	-	0.20 U	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	-	4.0 U	-	-	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	-	10.0 U	-	-	10.0 U	10.0 U	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	-	2.0 U	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	-	0.80 U	-	-	0.80 U	0.80 U	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	-	4.0 U	-	-	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Notes:																			
U - Not detected at the associated reporting limit																			
J - Estimated concentration																			
UJ - Not detected; associated reporting limit is estimated																			
R - Rejected																			
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																			
OU - Operable Unit																			
"- " - Not measured																			

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			VAS-1	VAS-1	VAS-1	VAS-2	VAS-2	VAS-2	VAS-2	VAS-3	VAS-3	VAS-3	VAS-3	VAS-4	VAS-4	VAS-4	VAS-4	VAS-5	VAS-5	VAS-5	VAS-5	VAS-6	VAS-6	VAS-6
Sample Date:			8/8/2012	8/8/2012	8/8/2012	8/7/2012	8/7/2012	8/7/2012	8/7/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/9/2012	8/9/2012	8/9/2012	8/9/2012	8/9/2012	8/9/2012	8/9/2012
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)																					
Parameters	Units	DNREC-SIRS																						
		Screening Levels (November 2021)																						
Metals																								
Aluminum	ug/L	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Notes:																								
U - Not detected at the associated reporting limit																								
J - Estimated concentration																								
UJ - Not detected; associated reporting limit is estimated																								
R - Rejected																								
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																								
OU - Operable Unit																								
"- " - Not measured																								

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit: Sample Location: Sample Date: Sample Depth:			OU-4 VAS-6 8/9/2012 -	OU-4 VAS-6 8/9/2012 -	OU-4 VAS-7 8/9/2012 -	OU-4 VAS-7 8/9/2012 -	OU-4 VAS-7 8/9/2012 -	OU-4 VAS-7 8/9/2012 -	OU-4 VAS-8 8/13/2012 -	OU-4 VAS-8 8/13/2012 -	OU-4 VAS-8 8/13/2012 -	OU-4 VAS-8 8/13/2012 -	OU-4 VAS-9 9/11/2012 -	OU-4 VAS-9 9/11/2012 -	OU-4 VAS-9 9/11/2012 -	OU-4 VAS-9 9/11/2012 -	OU-4 VAS-9 9/11/2012 -	OU-4 VAS-10 9/11/2012 -	OU-4 VAS-10 9/11/2012 -	OU-4 VAS-10 9/11/2012 -	OU-4 VAS-10 9/11/2012 -	OU-4 VAS-13 10/17/2012 -
			(Duplicate)																			
Parameters	Units	DNREC-SIRS Screening Levels (November 2021)																				
Volatile Organic Compounds																						
1,1-Dichloroethane	ug/L	2.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	0.23 J	0.21 J	0.21 J	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	14	1.7	1.0 U	1.0 U	1.0 U	0.39 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.99 J	0.99 J	0.30 J	1.0 U	1.0 U	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.17	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.78 J	0.79 J	0.90 J	2.9	3.0	4.3	3.5	6.1	21	15	9.4	7.3	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	R	R	R	R	R	R	15 J	8.0 J	R	13 J	R	R	R	R	R	R	R	R	R	7.2
2-Hexanone	ug/L	3.8	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBI)	ug/L	630	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.4 J
Acetone	ug/L	1400	R	R	R	R	R	14 J	54 J	R	R	R	R	R	R	R	R	R	R	R	R	34
Benzene	ug/L	0.46	0.70 J	2.0	0.30 J	0.33 J	0.35 J	2.6	71	130	120	130	350	350	330	250	350	770	450 J	360	260	1.0 U
Carbon tetrachloride	ug/L	0.46	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.074 J	0.18 J	0.34 J	3.0	11	13	1.0 U
Chlorobenzene	ug/L	7.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	0.14 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5	6.5	15	21	24	1.0 U
cis-1,2-Dichloroethene	ug/L	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 J	0.61 J	0.92 J	1.2	1.0 U
Ethylbenzene	ug/L	1.5	7.3	4.8	1.0 U	1.0 U	1.0 U	0.37 J	55	20	24	38	4.6	4.5	2.2	0.52 J	0.82 J	0.12 J	0.12 J	0.12 J	0.11 J	110
Isopropyl benzene	ug/L	45	0.69 J	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	8.8	27	25	22	30	29	36	38	27	13	2.4	1.3	0.82 J	23
Methyl tert butyl ether (MTBE)	ug/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	0.30 J	0.41 J	0.25 J	0.53 J	0.71 J	0.48 J	0.39 J	0.35 J	1.0 U
Methylene chloride	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 J	0.36 J	0.15 J	1.0 U	1.0 U	0.62 J	0.64 J	0.68 J	0.62 J	1.0 U
Toluene	ug/L	110	3.3	2.1	1.0 U	1.0 U	1.0 U	0.22 J	15	4.4	4.7	7.2	24	24	9.6	2.1	2.8	0.73 J	0.47 J	0.37 J	0.28 J	2.0
Trichloroethene	ug/L	0.28	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	0.35 J	0.37 J	0.27 J	0.33 J	1.9	5.6	8.8	9.5	1.0 U
Vinyl chloride	ug/L	0.019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	19	33	11	3.0 U	3.0 U	3.0 U	0.87 J	2.2 J	1.1 J	1.1 J	1.2 J	4.2	4.1	6.9	4.3	7.2	3.6	1.3 J	0.87 J	0.67 J	860
Volatile Organic Compounds - Tentatively Identified Compounds																						
Total VOC TICs	ug/L	-	16.4	5.7	N/A	N/A	N/A	N/A	620	658	712	502	1354	1281	1367	1448	1742	768	193.4	214.3	102.3	1648
Semi-volatile Organic Compounds																						
2,4-Dichlorophenol	ug/L	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
2,4-Dimethylphenol	ug/L	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
2,6-Dinitrotoluene	ug/L	0.049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0 U
2-Methylnaphthalene	ug/L	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.9 J
2-Methylphenol	ug/L	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
4-Chloroaniline	ug/L	0.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
4-Methylphenol	ug/L	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
Acetophenone	ug/L	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3 J
Benzaldehyde	ug/L	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 UJ
Benzo(a)anthracene	ug/L	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U
Benzo(a)pyrene	ug/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U
Biphenyl (1,1-Biphenyl)	ug/L	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
Dibenz(a,h)anthracene	ug/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0 UJ
Dibenzofuran	ug/L	0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U
Naphthalene	ug/L	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57
Pentachlorophenol	ug/L	0.041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30 U
Semi-volatile Organic Compounds - Tentatively Identified Compounds																						
Total SVOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1269.4

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	OU-4	
Sample Location:			VAS-6	VAS-6	VAS-7	VAS-7	VAS-7	VAS-7	VAS-8	VAS-8	VAS-8	VAS-8	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-10	VAS-10	VAS-10	VAS-10	VAS-13
Sample Date:			8/9/2012	8/9/2012	8/9/2012	8/9/2012	8/9/2012	8/9/2012	8/13/2012	8/13/2012	8/13/2012	8/13/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012	9/11/2012	10/17/2012
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(Duplicate)																			
Parameters	Units	DNREC-SIRS																				
		Screening Levels (November 2021)																				
Metals																						
Aluminum	ug/L	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	0.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Notes:																						
U - Not detected at the associated reporting limit																						
J - Estimated concentration																						
UJ - Not detected; associated reporting limit is estimated																						
R - Rejected																						
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section																						
OU - Operable Unit																						
"- " - Not measured																						

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	
Sample Location:			VAS-13	VAS-13	VAS-13	MW-27	MW-27	MW-27	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-29	MW-29	MW-29	MW-29	MW-35	
Sample Date:			10/17/2012	10/17/2012	10/17/2012	11/12/2014	11/1/2011	10/18/2012	11/12/2014	11/12/2014	11/2/2011	10/18/2012	11/4/2017	6/26/2018	11/1/2011	11/1/2011	10/18/2012	11/5/2017	11/12/2014	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)										(Duplicate)							
Parameters	Units	DNREC-SIRS																		
		Screening Levels (November 2021)																		
Volatile Organic Compounds																				
1,1-Dichloroethane	ug/L	2.8	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.4	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2,4-Trimethylbenzene	ug/L	5.6	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	9.1	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0075	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2-Dichlorobenzene	ug/L	30	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2-Dichloroethane	ug/L	0.17	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
1,3,5-Trimethylbenzene	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0.48	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	0.26 J	1.0 U	1.0 U	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	560	5.0 U	5.0 U	5.0 U	-	R	R	-	-	R	R	5.0 U	5.0 U	R	R	R	5.0 U	-	R
2-Hexanone	ug/L	3.8	5.0 U	5.0 U	5.0 U	-	10 U	5.0 U	-	-	10 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	-	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/L	630	5.0 U	5.0 U	5.0 U	-	10 U	5.0 U	-	-	10 U	5.0 U	5.0 U	5.0 U	2.2 J	1.9 J	5.0 U	5.0 U	-	5.0 U
Acetone	ug/L	1400	5.0 U	5.0 U	5.0 U	-	R	R	-	-	R	R	5.0 U	11 U	21 J	32 J	R	5.0 U	-	R
Benzene	ug/L	0.46	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	0.12 J	1.0 U	1.0 U	15	13	11	7.4	-	0.45 J
Carbon tetrachloride	ug/L	0.46	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
Chlorobenzene	ug/L	7.8	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
Chloroform (Trichloromethane)	ug/L	0.22	0.40 J	1.5	1.4	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
cis-1,2-Dichloroethene	ug/L	3.6	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	9.2	8.9	2.6	1.0 U	-	1.0 U
Ethylbenzene	ug/L	1.5	1.0 U	1.0 U	1.0 U	-	1.0 U	0.21 J	-	-	1.0 U	0.37 J	1.0 U	1.0 U	29	27	5.9	0.74 J	-	0.28 J
Isopropyl benzene	ug/L	45	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	0.097 J	1.0 U	1.0 U	2.5	2.5	0.79 J	1.8	-	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	10	1.0 U	0.18 J	0.15 J	-	1.0 U	1.0 U	-	-	0.32 J	1.0 U	1.0 U	1.0 U	0.82 J	0.75 J	0.52 J	0.44 J	-	1.0 U
Methylene chloride	ug/L	5	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
Tetrachloroethene	ug/L	1	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U
Toluene	ug/L	110	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	0.35 J	1.0 U	31	30	1.5	1.0 U	-	1.0 U
Trichloroethene	ug/L	0.28	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	0.69 J	1.0 U	1.0 U	-	0.87 J
Vinyl chloride	ug/L	0.019	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U	42	41	31	0.31 J	-	1.0 U
Xylenes (total)	ug/L	19	3.0 U	3.0 U	3.0 U	-	3.0 U	0.95 J	-	-	3.0 U	1.5 J	2.0 U	2.0 U	140	140	7.9	17	-	1.3 J
Volatile Organic Compounds - Tentatively Identified Compounds																				
Total VOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	71.1	77.1	N/A	N/A	N/A	N/A
Semi-volatile Organic Compounds																				
2,4-Dichlorophenol	ug/L	4.6	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
2,4-Dimethylphenol	ug/L	36	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
2,6-Dinitrotoluene	ug/L	0.049	2.0 U	2.0 U	2.1 U	-	2.0 U	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	-	-
2-Methylnaphthalene	ug/L	3.6	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
2-Methylphenol	ug/L	93	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
4-Chloroaniline	ug/L	0.37	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
4-Methylphenol	ug/L	190	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
Acetophenone	ug/L	190	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
Benzaldehyde	ug/L	19	10 UJ	10 UJ	11 UJ	-	10 UJ	-	-	-	10 UJ	-	10 U	10 U	10 UJ	10 UJ	-	10 U	-	-
Benzo(a)anthracene	ug/L	0.03	1.0 U	1.0 U	1.1 U	-	0.051 U	-	-	-	0.051 U	-	1.0 U	1.0 U	0.051 U	0.051 U	-	1.0 U	-	-
Benzo(a)pyrene	ug/L	0.025	1.0 U	1.0 U	1.1 U	-	0.051 U	-	-	-	0.051 U	-	1.0 U	1.0 U	0.051 U	0.051 U	-	1.0 U	-	-
Biphenyl (1,1-Biphenyl)	ug/L	0.083	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.6	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	2.0 U	2.0 U	10 U	10 U	-	2.0 U	-	-
Dibenz(a,h)anthracene	ug/L	0.025	1.0 UJ	1.0 UJ	1.1 UJ	-	1.0 U	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-	-
Dibenzofuran	ug/L	0.79	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	10 U	10 U	-	10 U	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.25	1.0 U	1.0 U	1.1 U	-	1.0 U	-	-	-	1.0 U	-	1.0 U	2.0 U	1.0 U	1.0 U	-	1.0 U	-	-
Naphthalene	ug/L	0.17	10 U	10 U	11 U	-	10 U	-	-	-	10 U	-	10 U	10 U	7.7 J	9.4 J	-	6.3 J	-	-
Pentachlorophenol	ug/L	0.041	30 U	30 U	32 U	-	0.20 U	-	-	-	0.20 U	-	20 U	20 U	0.20 U	0.20 U	-	20 U	-	-
Semi-volatile Organic Compounds - Tentatively Identified Compounds																				
Total SVOC TICs	ug/L	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.3	126	163.2	N/A	17.4	N/A	N/A

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-4	OU-4	OU-4	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	
Sample Location:			VAS-13	VAS-13	VAS-13	MW-27	MW-27	MW-27	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-29	MW-29	MW-29	MW-29	MW-35	
Sample Date:			10/17/2012	10/17/2012	10/17/2012	11/12/2014	11/1/2011	10/18/2012	11/12/2014	11/12/2014	11/2/2011	10/18/2012	11/4/2017	6/26/2018	11/1/2011	11/1/2011	10/18/2012	11/5/2017	11/12/2014	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)										(Duplicate)							
Parameters	Units	DNREC-SIRS																		
		Screening Levels (November 2021)																		
Metals																				
Aluminum	ug/L	2000	-	-	-	-	751	621	-	-	200 U	558	21.9 J	29.6 J	1540	1450	2890	540	-	321
Antimony	ug/L	0.78	-	-	-	-	10.0 U	10.0 U	-	-	10.0 U	10.0 U	0.79 J	2.0 U	10.0 U	10.0 U	10.0 U	2.0 U	-	10.0 U
Arsenic	ug/L	0.052	-	-	-	-	5.0 U	5.0 U	-	-	7.9	6.4	9.6	7.5	5.0 U	3.9 J	5.0 U	3.8	-	5.0 U
Arsenic (dissolved)	ug/L	0.052	-	-	-	15.0 U	5.0 U	5.0 U	6.3 J	6.1 J	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U	-	15.0 U	5.0 U
Barium	ug/L	380	-	-	-	-	135 J	107 J	-	-	557	474	204	182	1250	1390	903	1010	-	286
Barium (dissolved)	ug/L	380	-	-	-	124 J	140 J	108 J	655	652	491	433	-	-	855	1030	606	-	154 J	301
Cadmium	ug/L	0.92	-	-	-	-	5.0 U	5.0 U	-	-	5.0 U	5.0 U	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	2.0 U	-	5.0 U
Chromium	ug/L	10	-	-	-	-	10.0 U	10.0 U	-	-	10.0 U	10.0 U	4.0 U	4.0 U	10.0 U	10.0 U	6.0 J	2.1 J	-	10.0 U
Chromium (dissolved)	ug/L	10	-	-	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	-	10.0 U	10.0 U	10.0 U	-	10.0 U	10.0 U
Cobalt	ug/L	0.6	-	-	-	-	29.2 J	22.4 J	-	-	50.0	53.4	21.1	26.8	50.0 U	50.0 U	50.0 U	4.0 U	-	50.0 U
Cobalt (dissolved)	ug/L	0.6	-	-	-	51.5	30.7 J	23.6 J	50.9	49.8 J	50.4	54.9	-	-	50.0 U	50.0 U	50.0 U	-	50.0 U	50.0 U
Iron	ug/L	1400	-	-	-	-	1360	262	-	-	42000	37100	19200	23400	78400	78000	76000	64700	-	337
Iron (dissolved)	ug/L	1400	-	-	-	150 U	150 U	150 U	32500	31600	19500	13100	-	-	41200	47500	36600	-	150 U	150 U
Lead	ug/L	15	-	-	-	-	5.0 U	5.0 U	-	-	5.0 U	5.0 U	1.2 U	1.2 U	5.0 U	5.0 U	5.0 U	0.55 J	-	5.0 U
Manganese	ug/L	43	-	-	-	-	1290	1360	-	-	6390	5930	3040	3290	2960	3000	3140	2920	-	101
Manganese (dissolved)	ug/L	43	-	-	-	2320	1400	1400	5750	5500	6510	6020	-	-	3150	3230	3270	-	15.0 U	105
Mercury	ug/L	0.063	-	-	-	-	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U
Mercury (dissolved)	ug/L	0.063	-	-	-	0.20 U	0.20 U	0.53	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U
Nickel	ug/L	39	-	-	-	-	27.5 J	26.0 J	-	-	6.5 J	6.3 J	5.6 U	3.3 J	3.9 J	4.0 J	40.0 U	5.6 U	-	19.7 J
Nickel (dissolved)	ug/L	39	-	-	-	44.7	28.9 J	26.8 J	40.0 U	40.0 U	7.5 J	6.4 J	-	-	40.0 U	40.0 U	40.0 U	-	40.0 U	20.9 J
Selenium	ug/L	10	-	-	-	-	10.0 U	10.0 U	-	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	10.0 U
Selenium (dissolved)	ug/L	10	-	-	-	20.0 U	10.0 U	6.6 J	20.0 U	20.0 U	10.0 U	10.0 U	-	-	4.9 J	10.0 U	13.1	-	20.0 U	6.6 J
Silver	ug/L	9.4	-	-	-	-	10.0 U	10.0 U	-	-	10.0 U	10.0 U	2.0 U	2.0 U	10.0 U	10.0 U	10.0 U	2.0 U	-	10.0 U
Thallium	ug/L	0.02	-	-	-	-	10.0 U	10.0 U	-	-	10.0 U	10.0 U	0.80 U	0.80 U	10.0 U	10.0 U	10.0 U	0.80 U	-	10.0 U
Vanadium	ug/L	8.6	-	-	-	-	3.7 J	50.0 U	-	-	50.0 U	50.0 U	4.0 U	4.0 U	8.1 J	8.1 J	8.8 J	5.0	-	50.0 U
Vanadium (dissolved)	ug/L	8.6	-	-	-	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	-	-	50.0 U	50.0 U	50.0 U	-	50.0 U	50.0 U

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
R - Rejected
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section
OU - Operable Unit
"- " - Not measured

Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5
Sample Location:			MW-35	MW-35	MW-48	MW-48	MW-107	MW-108	MW-112	MW-113	MW-113	MW-109	MW-109
Sample Date:			11/16/2012	11/4/2017	11/12/2014	11/4/2017	11/3/2017	11/3/2017	7/13/2018	7/13/2018	7/13/2018	11/12/2014	11/4/2017
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-
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Table A.2

Historical Groundwater Exceedances Data Summary
Long-Term Stewardship Plan
Former GM Wilmington Assembly Plant
Wilmington, Delaware

Operable Unit:			OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	OU-5	
Sample Location:			MW-35	MW-35	MW-48	MW-48	MW-107	MW-108	MW-112	MW-113	MW-113	MW-109	MW-109	
Sample Date:			11/16/2012	11/4/2017	11/12/2014	11/4/2017	11/3/2017	11/3/2017	7/13/2018	7/13/2018	7/13/2018	11/12/2014	11/4/2017	
Sample Depth:			-	-	-	-	-	-	-	-	-	-	-	
			(Duplicate)										(Duplicate)	
DNREC-SIRS														
Parameters	Units	Screening Levels (November 2021)												
Metals														
Aluminum	ug/L	2000	-	45.9	-	22.6 J	239	86.4	39.5 J	22.4 J	40.0 U	-	33.2 J	47.2
Antimony	ug/L	0.78	-	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U
Arsenic	ug/L	0.052	-	2.0 U	-	2.0 U	0.97 J	2.0 U	2.2	0.77 J	0.86 J	-	2.0 U	2.0 U
Arsenic (dissolved)	ug/L	0.052	-	-	15.0 U	-	-	-	-	-	-	15.0 U	-	-
Barium	ug/L	380	-	162	-	193	27.6	53.8	156	226	224	-	72.4	73.1
Barium (dissolved)	ug/L	380	-	-	258	-	-	-	-	-	-	85.2 J	-	-
Cadmium	ug/L	0.92	-	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U
Chromium	ug/L	10	-	4.0 U	-	4.0 U	3.9 J	4.0 U	4.0 U	4.0 U	4.0 U	-	4.0 U	4.0 U
Chromium (dissolved)	ug/L	10	-	-	10.0 U	-	-	-	-	-	-	10.0 U	-	-
Cobalt	ug/L	0.6	-	4.0 U	-	3.6 J	4.0 U	3.9 J	10.8	9.2	8.8	-	4.0 U	4.0 U
Cobalt (dissolved)	ug/L	0.6	-	-	8.1 J	-	-	-	-	-	-	50.0 U	-	-
Iron	ug/L	1400	-	125	-	64.7 J	108 J	935	1330	4680	4570	-	54.9 J	86.8 J
Iron (dissolved)	ug/L	1400	-	-	3610	-	-	-	-	-	-	150 U	-	-
Lead	ug/L	15	-	1.2 U	-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	-	1.2 U	1.2 U
Manganese	ug/L	43	-	50.4	-	6050	4.6 J	147	3840	2400	2330	-	29.2	31.2
Manganese (dissolved)	ug/L	43	-	-	6370	-	-	-	-	-	-	30.2	-	-
Mercury	ug/L	0.063	-	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.063	-	-	0.20 U	-	-	-	-	-	-	0.20 U	-	-
Nickel	ug/L	39	-	13.0 U	-	5.6 U	4.0 U	5.6 U	3.7 J	1.5 J	1.9 J	-	5.6 U	5.6 U
Nickel (dissolved)	ug/L	39	-	-	40.0 U	-	-	-	-	-	-	40.0 U	-	-
Selenium	ug/L	10	-	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	10.0 U	10.0 U
Selenium (dissolved)	ug/L	10	-	-	20.0 U	-	-	-	-	-	-	20.0 U	-	-
Silver	ug/L	9.4	-	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U
Thallium	ug/L	0.02	-	0.80 U	-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	-	0.80 U	0.80 U
Vanadium	ug/L	8.6	-	4.0 U	-	4.0 U	3.6 J	4.0 U	4.0 U	4.0 U	4.0 U	-	4.0 U	4.0 U
Vanadium (dissolved)	ug/L	8.6	-	-	50.0 U	-	-	-	-	-	-	50.0 U	-	-

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
R - Rejected
DNREC-RS – Department of Natural Resources and Environmental Control – Remediation Section
OU - Operable Unit
"- " - Not measured

Appendix B

OU-2 Groundwater Monitoring Plan



OU-2 Groundwater Monitoring Plan

**Former GM Wilmington Assembly Plant
Wilmington, Delaware**

RACER Trust

(Revitalizing Auto Communities Environmental Response Trust)

Appendix B to the Long-Term Stewardship Plan

Original – April 2017

Revision 1 – December 2019

Revision 2 – December 2021

January 14, 2022

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Figure 1.1	Facility Location
Figure 1.2	Site Layout
Figure 3.1	Groundwater Sampling Locations

1. Introduction

This Groundwater Monitoring Plan (GMP) has been developed by GHD to monitor groundwater in Operable Unit 2 (OU-2). The objective of the GMP is to:

- Ensure the groundwater impacted with Chemicals of Concern (COCs) are not extending beyond the property boundary.
- Ensure the COC concentrations are not exhibiting an increasing trend over the monitoring period.

The GMP covers OU-2 at the Former General Motors (GM) Corp. Wilmington Assembly Plant (Site or Facility) located at 851 and 1025 Boxwood Road in Wilmington, Delaware. The Site location is provided on Figure 1.1. The location of OU-2 is shown on Figure 1.2.

2. Background

2.1 Site History

The Site consists of the property located at 851 and 1025 Boxwood Road, New Castle County, Wilmington, Delaware. The Facility consists of two tax parcels totaling approximately 142 acres of land which, formerly included a 3.2 million square foot Main Assembly Building, Waste Water Treatment Plant (WWTP), Pump Houses and a Powerhouse. The Facility was developed in 1945 by GM Corporation for the purpose of automobile assembly operation until July 2009 when the plant was idled. Presently, the site has been redeveloped for logistics and warehouse use, to be contained in two buildings which are both substantially complete.

Due to GM Corporation's 2009 bankruptcy, certain operating assets of GM Corporation were sold on July 10, 2009 to General Motors LLC. Existing non continuing assets, including the Site, remained the property of GM Corporation which was known as Motors Liquidation Company (MLC), in its capacity as debtor in possession in the bankruptcy case. The Site was sold by MLC to Fisker Automotive, Inc. (Fisker) in July 2010.

On March 31, 2011, the Revitalizing Auto Communities Environmental Response Trust (RACER Trust) became effective and RACER Trust has been conducting, managing, and funding cleanup at the 89 former GM Corporation sites, including the former Wilmington Assembly Plant.

Between July 2009 and April 2014, the plant remained idle with limited activities present at the Site while Fisker evaluated opportunities to revive the assembly plant. Fisker filed for bankruptcy in November 2013 and the Site was purchased by Wanxiang Delaware Real Estate Holdings (Wanxiang) in April 2014 as part of a purchase by Wanxiang of Fisker's assets. In October 2017, Harvey, Hanna & Associates, Inc.'s special purpose entity, Boxwood Industrial Park, LLC (Boxwood), purchased the Site from Wanxiang. On November 7, 2019, Dermody Properties special purchase entity DPIF2 DE 1 New Castle, LLC (Dermody) purchased portions of the site (OU-1, OU-2 and OU-3) from Boxwood. On January 29, 2020, Dermody purchased additional portions of the Site (OU-4 and OU-5) from Boxwood. Dermody completed Site redevelopment activities in September 2021, which included an approximately 820,000 square foot logistics building in OU-1, OU-2, and OU-3 and an approximately 220,000 square foot second warehouse building in OU-3 and OU-5. No buildings are currently planned in the OU-4 area and it is currently parking or landscaped; however, this area may be developed with additional buildings or other improvements in the future. Dermody also reconfigured the Site into two tax parcels by legal subdivision, whereas there were formerly five total. DPIF2 DE 1 New Castle, LLC currently owns Lot 1 which contains the approximately 820,000 square foot building and associated improvements, and DPIF2 DE2 New Castle2, LLC currently owns Lot 2 which contains the approximately 220,000 square foot building and associated improvements.

The Site contained operations for the manufacturing of automobiles including, but not limited to, petroleum products for fueling and heating, painting, wastewater treatment plant, cleaning parts, and hazardous waste storage. Each of

these operations used various chemicals. Releases occurred at the Site likely as a result of historical operations, which impacted the soil and groundwater beneath the Site.

2.2 Geology

A review of the soil borings completed during the 2015 Remedial Investigation (RI) shows the soils at the Site to be fill underlain by unconsolidated sediments consisting primarily of silty sands and clays, from below the paved surface to a depth of approximately 8 to 10 feet below ground surface (bgs). Gravel lenses are seen ranging in thickness from 1 to 10 feet at varying depths across the Site.

A review of historical soil boring logs from previous investigations indicates that there appears to be a continuous sand layer ranging from 16 to 30 feet in thickness with starting depths ranging from approximately 7.8 to 11.5 feet bgs and extending to depths ranging from approximately 23.8 to 40 feet bgs (based on ground surface elevations prior to development activities, which included regrading of the Site). The historical logs also indicate that the sand layer is underlain by reddish brown clay of an undetermined thickness.

2.3 Hydrogeology

On Site, groundwater was observed at an average depth of approximately 12 feet bgs (based on ground surface elevations prior to development activities, which included regrading of the Site) during previous investigations from 2011 to 2013. The now-demolished Main Assembly Plant appeared to have created a groundwater divide at the Site, with groundwater on the east side flowing to the east toward Little Mill Creek and groundwater on the west side flowing to the west towards Red Clay Creek.

Historically surface water flow across the Facility was directed to the Facility storm sewer system, which discharged to Little Mill Creek at Outfall 001. The redevelopment of the Site did not change the point of storm sewer system discharge to Little Mill Creek; however, some surface water flow is directed to three bio-basins before entering the on-Site storm sewer system which connects to Outfall 001. With the exception of Little Mill Creek which is located in OU-6, there were no surface water bodies or waterways (streams, rivers, lakes, etc.), including associated wetlands, floodplains, and riparian zones present on Facility or immediately adjacent to the Facility.

Little Mill Creek is located in the wooded area along the eastern property boundary. Approximately 1,000 feet of this creek is located within the Facility property. Little Mill Creek discharges to the Christina River approximately 1 mile downstream. Red Clay Creek is located approximately 1.1 miles west of the Facility and also discharges to the Christina River. The Christina River is the major river draining this portion of New Castle County. There are no lakes or significant ponds within one mile of the Facility.

2.4 Impacted Area: OU-2

OU-2 was previously a large aboveground storage tank (AST) and truck unloading area. A petroleum release occurred at OU-2 likely as a result of historical leaks from the tanks and piping of the large ASTs. GM Corporation conducted a Remedial Investigation and Feasibility Study (RI/FS) in 2009 to evaluate groundwater conditions in the OU-2 area. The OU-2 Groundwater RI/FS included a human health risk assessment (HHRA) that concluded that the concentrations of constituents in groundwater within OU-2 do not pose a significant risk either under current conditions or if future operations at OU-2.

Subsequently, a Limited Action remedy consisting of routine groundwater sampling was conducted in the vicinity of the OU-2 Area from August 2008 to May 2010. Groundwater samples were collected from twenty wells (MW-2 through MW-21), sampled for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals, and compared to United States Environmental Protection Agency (USEPA) Region 9 drinking water criteria. A number of VOCs (benzene, acetone, chlorobenzene, 1,4-dichlorobenzene, ethylbenzene, methyl tertiary butyl ether (MTBE), toluene, and xylenes), SVOCs (4-methylphenol, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene), and metals (antimony, arsenic, iron, lead, manganese, and vanadium) were found to exceed drinking water criteria. The groundwater analytical data collected during the duration of the Limited Action remedy demonstrated that the

extent of groundwater contamination had not migrated beyond OU-2 and that, with the exception of chlorobenzene at MW-7, the relevant concentrations of groundwater contaminants had not increased significantly over the monitoring period.

3. Monitoring Activities

3.1 Monitoring Well Re-Installation

Monitoring wells MW-3, MW-8, MW-9, MW-11, and MW-19 were abandoned in June 2018 to prepare the site for redevelopment activities. Upon completion of the site development activities in OU-2, wells MW-8, MW-9 and MW-19 were reinstalled (and named as MW-8R, MW-9R, and MW-19R, respectively) consistent with the original installation of each well. MW-8R and MW-19R were installed in April 2021 and MW-9R was installed in July 2021. Source area wells, MW-3 and MW-11, were not reinstalled since the newly-constructed 820,000 square foot logistics building, shown on Figure 1.2 and 3.1, completely covers the source area. Based on the location of the logistics building, wells MW-8R, MW-9R, and MW-19R were installed in OU-3, west of the original locations in OU-2: MW-8R was installed southwest of MW-8, MW-9R was installed west of MW-9, and MW-19R was installed west of MW-19R. The location of each replacement well was chosen after consultation with and agreement from DNREC to capture potential changes in groundwater flow as a result of site development activities.

3.2 Groundwater Monitoring

3.2.1 Static Water Levels

Static water levels will be collected annually from all OU-2 LTS monitoring well locations. Depth to water will be recorded to the nearest hundredth of a foot, utilizing the top of the riser as the reference point.

3.2.2 Groundwater Sampling

Groundwater samples will be collected annually from groundwater monitoring wells MW-8R, MW-9R and MW-19R, shown on Figure 3.1. MW-8, MW-9 and MW-19 had shown low to non-detect concentrations of COCs and were located on the perimeter of OU-2, southwest of the source area. The new wells will be monitored for increased concentrations of COCs, which will reveal if the plume has migrated toward the Site property boundary.

Groundwater samples will be analyzed for VOCs by USEPA Method 8260 per HSCA Standard Operating Procedures for Chemical Analytical Programs (SOPCAP). VOCs were selected as parameters based on previous groundwater data sets from OU-2 monitoring wells.

An initial round of groundwater sampling occurred in 2017 and included both perimeter and source area monitoring wells. This established a baseline that can be used to compare to future sampling events. A second round of groundwater sampling occurred in 2018 prior to the abandonment of monitoring wells in OU-2.

The groundwater monitoring will continue for 5 years (five additional sampling events). Analytical data from the sampling events will be compared to historical data to determine if COC concentrations are increasing or migrating to the Site property boundary. After 5 sampling events the monitoring plan will be adjusted to increase or decrease frequency of sampling (detailed in Section 3.3).

All groundwater samples will be collected using low flow sampling techniques. Prior to groundwater sample collection, each monitoring well will be purged until field parameters stabilize. Field parameters will consist of pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity.

Groundwater samples will be placed into a pre cleaned laboratory provided container, properly labeled, placed on ice, and submitted under chain of custody protocol for selected laboratory analysis. All generated purge water will be visually examined and will be discharged directly to ground surface unless it has an odor, sheen, or non-aqueous phase liquid (NAPL). If odor, sheen, or NAPL is present, purge water will be placed in Department of Transportation (DOT) approved 55-gallon closed top drums prior to appropriate off-Site disposal by RACER Trust.

3.3 Monitoring Plan Adjustments

3.3.1 Monitoring Plan: Step Up

After five sampling events, analytical results will be compared to historical data to determine if COC concentrations are increasing, decreasing, or stable. If a statistically significant increase in concentration of VOCs is observed, RACER Trust will contact the Department of Natural Resources and Environmental Control – Remediation Section (DNREC-RS) to discuss the next steps including evaluating active remediation.

3.3.2 Monitoring Plan: Step Down

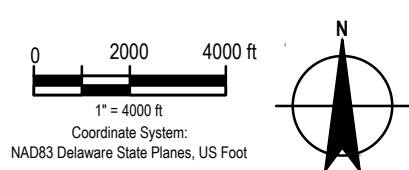
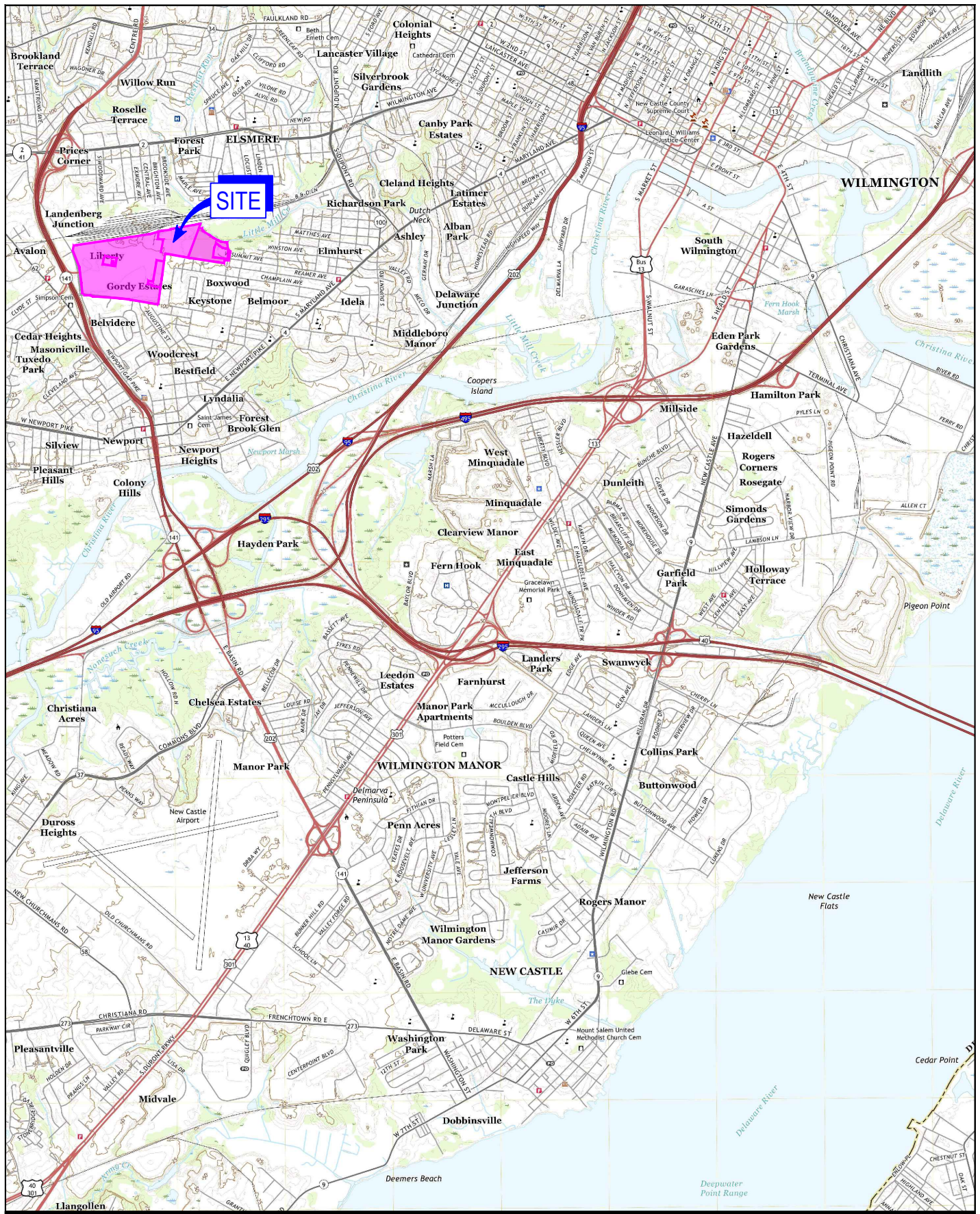
After five sampling events, analytical results will be compared to historical data to determine if COC concentrations are increasing, decreasing or stable. If a decrease in concentrations of VOCs is observed at MW-8R, MW-9R or MW-19R or the wells are non-detect for COCs, the monitoring frequency will decrease from annually to biennially. If COCs continually decrease or remain stable at the monitoring wells after eight consecutive biennial monitoring events, RACER Trust will submit a written request to DNREC-RS to eliminate the GMP at OU-2.

Due to the location of the new building, the source area is no longer accessible. As such, MW-3 and MW-11 will not be reinstalled or sampled.

4. Reporting

Upon completion of each annual sampling event and each 5-year sampling event, along with the receipt of the final analytical result, a data quality assessment and validation will be completed. DNREC-RS will be provided an annual letter report summarizing the analytical results generated from the sampling event. The report will document trends, if any, noted from the analytical data and water table aquifer groundwater contour maps. The report will also evaluate data to determine whether adjustments to the monitoring program are needed based on the criteria presented in Section 3.3. No reduction in the groundwater monitoring program will be made in the first 5 years of monitoring. Thereafter, if the groundwater data indicates that there are no significant variations in the impacted groundwater, RACER Trust will present a written request to modify the groundwater monitoring plan and provide the technical rationale for any sampling reduction request.

The annual report will be submitted to DNREC-RS within 90 days following completion of the annual sampling event. Analytical results will be compared to DNREC RS Screening Levels.

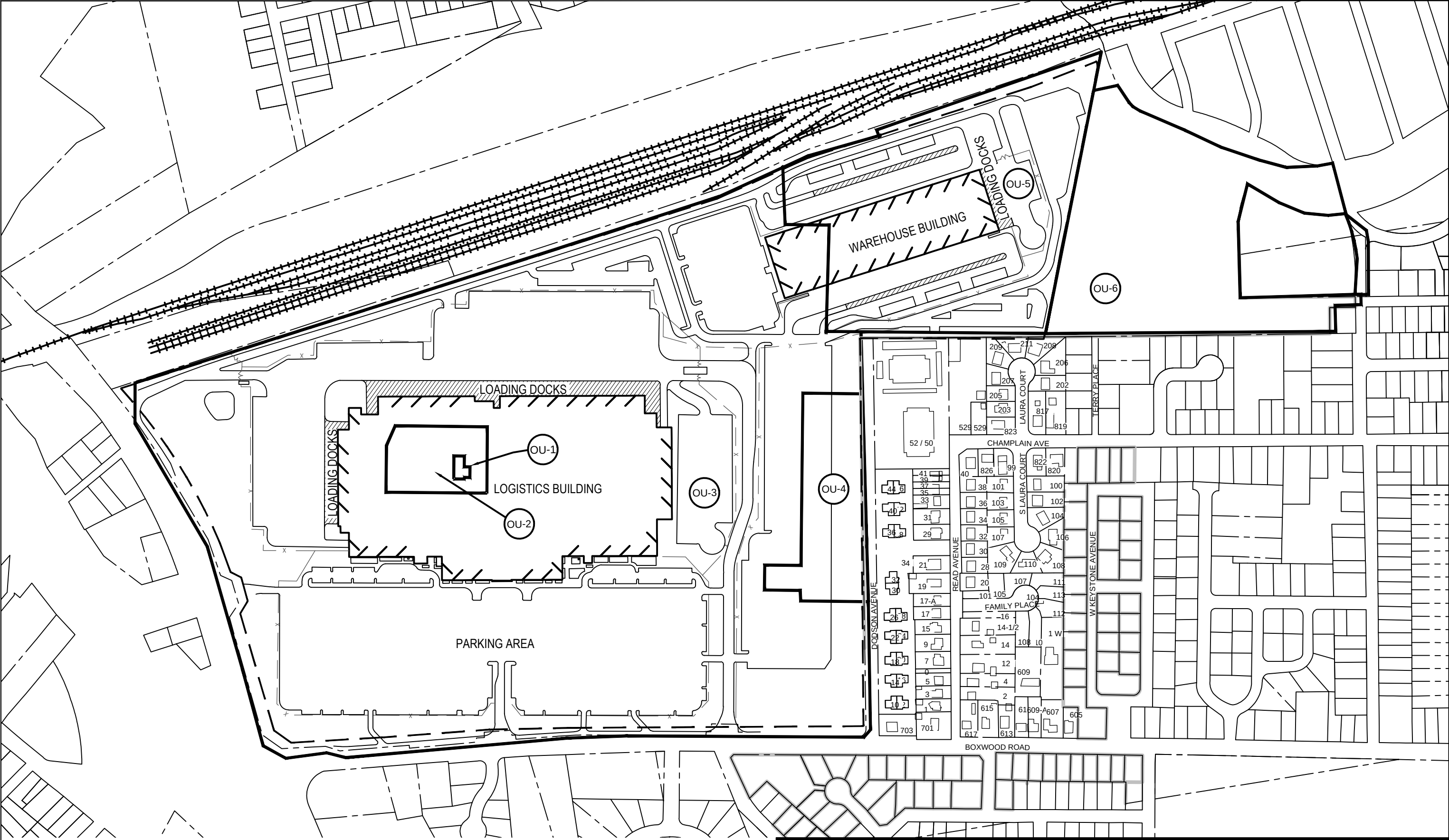


RACER
WILMINGTON, DELAWARE
OU-2 GROUNDWATER MONITORING PLAN

Project No. 11222397
 Date December 2021

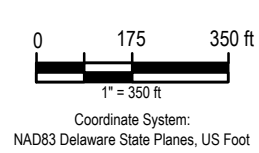
FACILITY LOCATION

FIGURE 1.1



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- ++++ RAILWAY
- - - FENCELINE

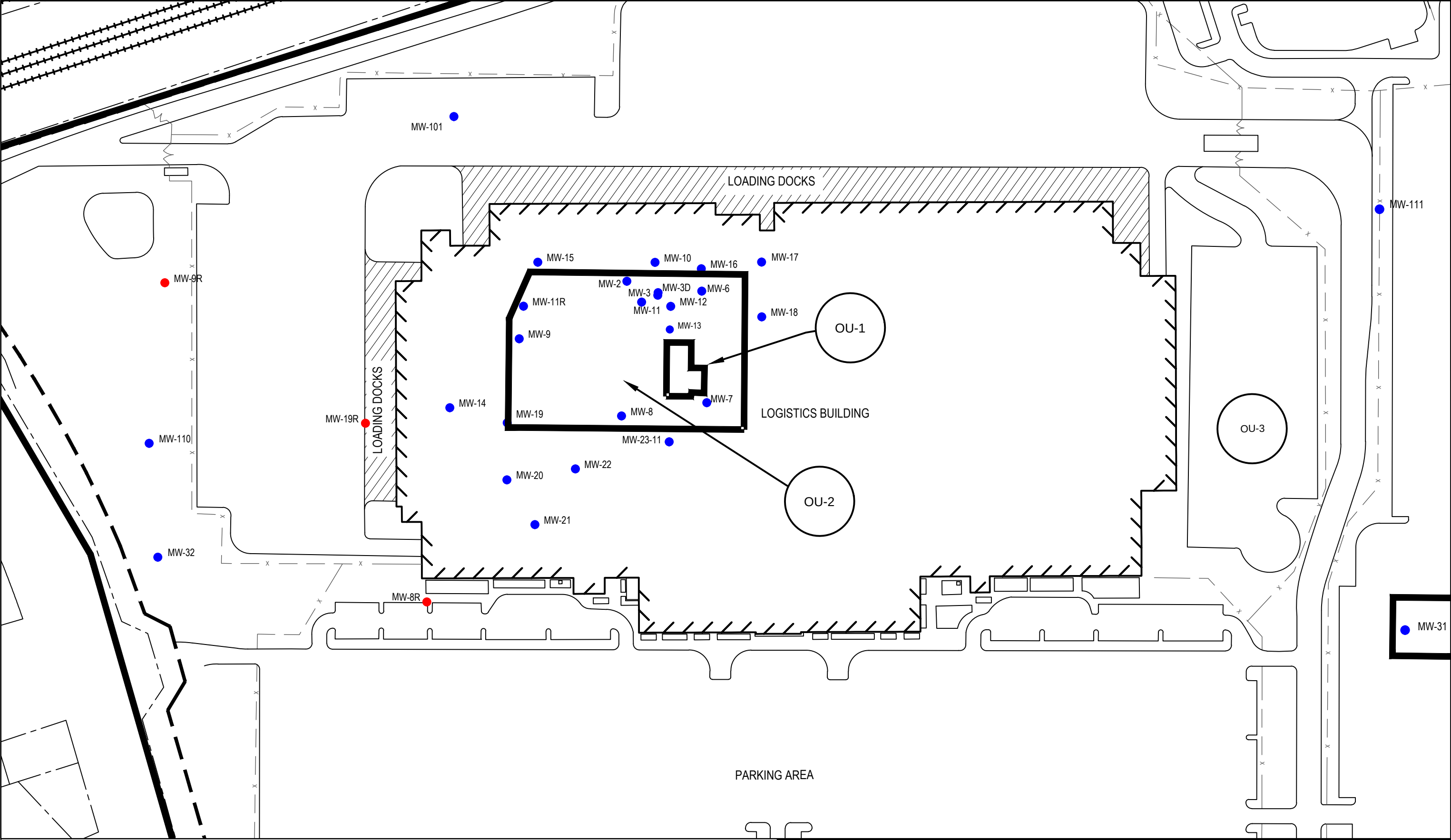


RACER
WILMINGTON, DELAWARE
OU-2 GROUNDWATER MONITORING PLAN

LOCATION OF OPERABLE UNITS

Project No. 11222397
Date December 2021

FIGURE 1.2



LEGEND

	APPROXIMATE FACILITY BOUNDARY		MW-28	ABANDONED MONITORING WELL
	OPERABLE UNIT (OU) BOUNDARY		MW-19R	REINSTALLED LTS MONITORING WELL
	RAILWAY			
	FENCELINE			

0 75 150 ft
1" = 150 ft
Coordinate System:
NAD83 Delaware State Planes, US Foot

RACER
WILMINGTON, DELAWARE
OU-2 GROUNDWATER MONITORING PLAN

GROUNDWATER SAMPLING LOCATIONS

Project No. 11222397
Date January 2022

FIGURE 3.1

Appendix C

OU-4 Groundwater Monitoring Plan



OU-4 Groundwater Monitoring Plan

**Former GM Wilmington Assembly Plant
Wilmington, Delaware**

RACER Trust

(Revitalizing Auto Communities Environmental Response Trust)

Appendix C to the Long-Term Stewardship Plan

Original – August 2020

Revision 1 – December 2021

Revision 2 – January 2025

January 01, 2025

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Figure index

Figure 1.1	Facility Location
Figure 1.2	Site Layout
Figure 3.1	Groundwater Sampling Locations

1. Introduction

This Groundwater Monitoring Plan (GMP) has been developed by GHD to monitor groundwater in Operable Unit 4 (OU-4). The objectives of the GMP are to:

- Ensure the groundwater impacted with Constituents of Concern (COCs) are stable or decreasing.
- Ensure the COC concentrations are not statistically increasing over the monitoring period.

The GMP covers OU-4 at the Former General Motors (GM) Corporation Wilmington Assembly Plant (Site or Facility) located at 851 and 1025 Boxwood Road in Wilmington, Delaware. The Site location is provided on Figure 1.1. The location of OU-4 is shown on Figure 1.2.

2. Background

2.1 Site History

The Site consists of the property located at 851 and 1025 Boxwood Road, New Castle County, Wilmington, Delaware. The Facility consists of two tax parcels totaling approximately 142 acres of land which, formerly, included a 3.2 million square foot Main Assembly Building, Waste Water Treatment Plant (WWTP), Pump Houses and a Powerhouse. The Facility was developed in 1945 by GM Corporation for the purpose of automobile assembly operation until July 2009 when the plant was idled. Presently, the site has been redeveloped for logistics and warehouse use, to be contained in two buildings which are both substantially complete.

Due to GM Corporation's 2009 bankruptcy, certain operating assets of GM Corporation were sold on July 10, 2009 to General Motors LLC. Existing non continuing assets, including the Site, remained the property of GM Corporation which was known as Motors Liquidation Company (MLC), in its capacity as debtor in possession in the bankruptcy case. The Site was sold by MLC to Fisker Automotive, Inc. (Fisker) in July 2010. On March 31, 2011, the Revitalizing Auto Communities Environmental Response Trust (RACER Trust) became effective and assumed the liability of MLC/GM Corporation for addressing, through specifically identified and negotiated environmental action tasks, historical environmental releases at the property. RACER Trust has been conducting, managing, and funding cleanup at the 89 former GM Corporation sites, including the former Wilmington Assembly Plant.

Between July 2009 and April 2014, the plant remained idle with limited activities present at the Site while Fisker evaluated opportunities to revive the assembly plant. The Site was purchased by Wanxiang Delaware Real Estate Holdings (Wanxiang) in April 2014 as part of a purchase by Wanxiang of Fisker's assets. In October 2017, Harvey, Hanna & Associates, Inc's special purpose entity, Boxwood Industrial Park, LLC (Boxwood), purchased the Site from Wanxiang. On November 7, 2019, Dermody Properties special purchase entity DPIF2 DE 1 New Castle LLC (Dermody) purchased portions of the Site (OU-1, OU-2, and OU-3) from Boxwood. On January 29, 2020, Dermody purchased additional portions of the site (OU-4 and OU-5) from Boxwood. Dermody completed Site redevelopment activities in September 2021, which included an approximately 820,000 square foot logistics building in OU-1, OU-2, and OU-3 and an approximately 220,000 square foot warehouse building in OU-3 and OU-5. No buildings are currently planned in the OU-4 area and it is currently parking or landscaped; however, this area may be developed with additional buildings or other improvements in the future. Dermody also reconfigured the Site into two tax parcels by legal subdivision, whereas there were formerly five total. DPIF2 DE 1 New Castle, LLC currently owns Lot 1 which contains the approximately 820,000 square foot building and associated improvements, and DPIF2 DE2 New Castle2, LLC currently owns Lot 2 which contains the approximately 220,000 square foot building and associated improvements.

The Site contained operations for the manufacturing of automobiles including, but not limited to, petroleum products for fueling and heating, painting, wastewater treatment plant, cleaning parts, and hazardous waste storage. Each of

these operations used various chemicals. Any releases occurred at the Site as a result of historical operations, which impacted the soil and groundwater beneath the Site.

2.2 Geology

A review of soil borings advanced during the remedial investigation showed the soils in OU-4 to be fill underlain by unconsolidated sediments consisting primarily of silty sands and clays, from below the paved surface to a depth of approximately 5 to 30 feet below ground surface (bgs). Gravel and clay lenses are seen ranging in thickness from 1 to 5 feet at varying depths across OU-4.

A review of historical OU-4 soil boring logs indicates that there appears to be a continuous sand layer ranging from 15 to 30 feet in thickness with starting depths ranging from approximately 10 feet bgs to 15 feet bgs and extending to depths of approximately 40 feet bgs (based on ground surface elevations prior to development activities which included regrading of the Site). The logs also indicate that the sand layer is underlain by reddish brown clay of an undetermined thickness.

2.3 Hydrogeology

OU-4 groundwater was observed at an average depth of approximately 15 feet bgs (based on ground surface elevations prior to development activities which included regrading of the Site) during investigations from 2011 to 2017. The now-demolished Main Assembly plant appeared to have created a groundwater divide at the Site with groundwater on the east side flowing to the east toward Little Mill Creek and groundwater on the west side flowing to the west towards Red Clay Creek.

Historically, surface water flow across the Facility was directed to the Facility storm sewer system, which discharged to Little Mill Creek at Outfall 001. The redevelopment of the Site did not change the storm sewer system point of discharge to Little Mill Creek; however, some surface water flow is directed to three bio-basins before entering the on-Site storm sewer system which connects to Outfall 001. With the exception of Little Mill Creek which is located in OU-6, there were no surface water bodies or waterways (streams, rivers, lakes, etc.), including associated wetlands, floodplains, and riparian zones present on Facility or immediately adjacent to the Facility.

Little Mill Creek is located in the wooded area along the eastern property boundary. Approximately 1,000 feet of this creek is located within the Facility property. Little Mill Creek discharges to the Christina River approximately 1 mile downstream. Red Clay Creek is located approximately 1.1 miles west of the Facility and also discharges to the Christina River. The Christina River is the major river draining this portion of New Castle County. There are no lakes or significant ponds within one mile of the Facility.

2.4 Impacted Area: OU-4

OU-4 is located along the eastern side of the Site and includes the former Anchor Motor Freight Building. OU-4 is bordered to the east by Dodson Avenue. An April 9, 1990, letter from DNREC to GM Corporation stated that 12 underground storage tanks (USTs) were removed from the property. Ten of those tanks were adjacent to the former Anchor Motor Freight Building. Additionally, one gasoline UST (GMGT-1) was removed from near the southeastern corner of the assembly plant and one waste oil tank (WW-1) was removed from the stormwater area. The USTs at the former Anchor Motor Freight building contained diesel (four tanks), gasoline (two tanks), heating oil (two tanks), waste oil (one tank), and engine oil (one tank).

A comprehensive review and evaluation of potential releases to the environment for OU-4 was completed and summarized in the 2015 RI Report. The Remedial Investigation (RI) Report identified that groundwater in OU-4 contained concentrations of volatile organic compounds (VOCs) (1,2,4-trimethylbenzene, 1,2-dichloroethane, 1,4-dichlorobenzene, 2-hexanone, benzene, carbon tetrachloride, chloroform, ethylbenzene, isopropyl benzene, toluene, trichloroethene, and xylenes), semi volatile organic compounds (SVOCs) (2-methylnaphthalene, biphenyl, dibenzofuran, and naphthalene), and metals (aluminum, arsenic, barium, cobalt, iron, manganese, and vanadium)

above the Department of Natural Resources and Environmental Control – Remediation Section (DNREC RS) Screening Levels.

Site wide groundwater samples were collected in 2017 to facilitate potential reuse of the Site and were reported in the draft 2019 Site Wide Groundwater Monitoring Report (GHD, 2019). Groundwater samples were collected from select OU-4 wells on-Site and off-Site in 2018 as part of the three-year Soil Vapor Extraction (SVE) system evaluation. Groundwater concentrations of VOCs, SVOCs, and metals exceeded DNREC RS Screening Levels in OU-4 in both the 2017 and 2018 sampling events. However, in general, concentrations decreased in the 2017 and 2018 sampling events compared to concentrations reported in the RI Report.

The Final Plan of Remedial Action for OU-4 includes an environmental covenant with use restrictions, including the limitation of groundwater withdrawal. This restriction stipulates that no groundwater wells can be installed, or groundwater withdrawn on the property without written approval from DNREC-RS and DNREC's Division of Water.

3. Monitoring Activities

3.1 Monitoring Well Condition Assessment

A monitoring well condition assessment will be conducted to verify the current condition of the remaining monitoring wells in OU-4. This will consist of a visual inspection, water level measurement, and well depth sounding. The results of the monitoring well condition assessment will be presented in a memorandum to DNREC. Any deficiencies in the wells identified will be addressed. Once well deficiencies are addressed, selected wells for groundwater sampling will be redeveloped prior to sample collection.

3.2 Groundwater Monitoring

3.2.1 Static Water Levels

Static water levels will be collected annually from OU-4 LTS monitoring wells MW-36S, MW-36D, and MW-50 in OU-4. Additionally, static water levels will be collected annually from off-Site monitoring wells DA-MW-40 and DA-MW-41. Depth to water will be recorded to the nearest hundredth of a foot, utilizing the top of the riser as the reference point. Previously, a new monitoring well (MW-51) was planned for installation between MW-36D and MW-50 following completion of development activities, to be gauged annually for static water levels and potential presence of LNAPL. In an August 21, 2024, email, DNREC approved RACER Trust's request to not install MW-51 because: this well would not impact the conclusions related to groundwater contours based on current data; existing wells at similar depths would detect LNAPL, if present; and safety concerns related to newly installed utilities.

3.2.2 Groundwater Sampling

Groundwater samples will be collected annually from groundwater monitoring wells MW-36S, MW-36D, DA-MW-40, DA-MW-41, and MW-50, shown on Figure 3.1. DA-MW-40, DA-MW-41, have low to non-detect concentrations of COCs and are located off-site to the east of OU-4. These perimeter wells will be monitored to ensure concentrations of COCs are not increasing compared to historical data, where potentially increasing concentrations would indicate impacted groundwater may be migrating further off-Site and east of Dodson Avenue.

Groundwater samples will be analyzed for VOCs and SVOCs. VOCs and SVOCs were selected as parameters based on previous groundwater data sets from OU-4 monitoring wells.

The annual groundwater monitoring will continue for 5 years (five additional sampling events). Analytical data from the sampling events will be compared to historical data to confirm COC concentrations are not increasing or migrating to

the perimeter wells (DA-MW-40 and DA-MW-41). Based on the comparison to historical data, the monitoring plan will be adjusted to increase or decrease frequency of sampling (detailed in Section 3.3).

All groundwater samples will be collected using low flow sampling techniques. Prior to groundwater sample collection, each monitoring well will be purged until field parameters stabilize. Field parameters will consist of pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity.

Groundwater samples will be placed into a pre cleaned laboratory provided container, properly labeled, placed on ice, and submitted under chain of custody protocol for selected laboratory analysis. All generated purge water will be visually examined and will be discharged directly to ground surface unless it has an odor, sheen, or non-aqueous phase liquid (NAPL). If odor, sheen, or NAPL is present, purge water will be placed in Department of Transportation (DOT) approved 55-gallon closed top drums prior to appropriate off-Site disposal by RACER Trust.

3.3 Monitoring Plan Adjustments

3.3.1 Monitoring Plan: Step Up

After five sampling events, a statistical analysis will be completed to compare analytical results to historical data to determine if COC concentrations are increasing, decreasing or stable. If a statistically significant increase in concentration of VOCs or SVOCs is observed, RACER Trust will contact DNREC-RS to discuss the next steps including evaluating active remediation.

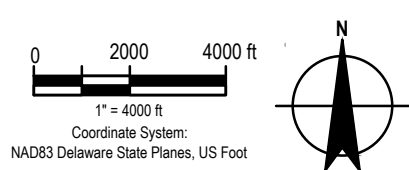
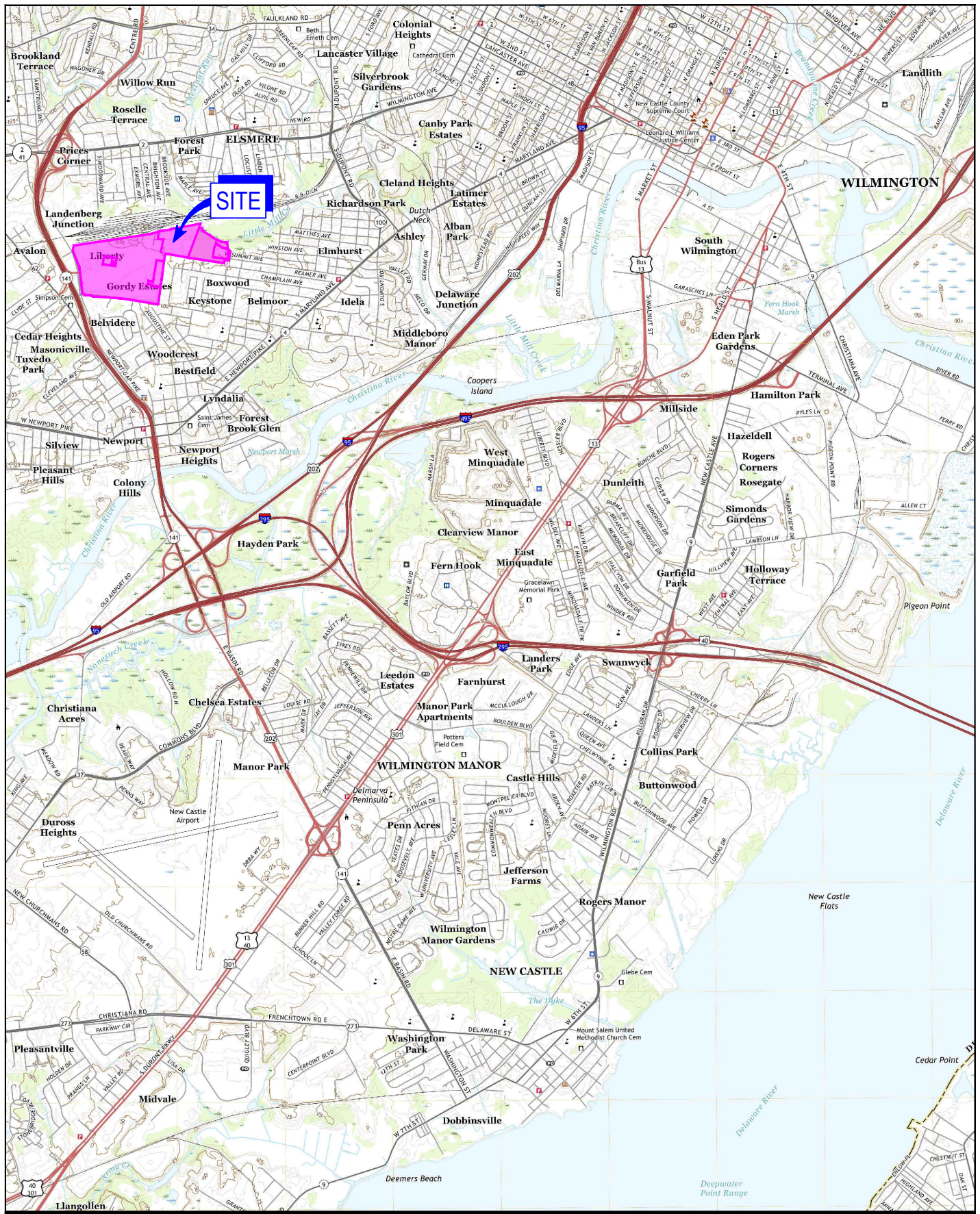
3.3.2 Monitoring Plan: Step Down

After five sampling events, a statistical analysis will be completed to compare analytical results to historical data to determine if COC concentrations are increasing, decreasing or stable. If no statistically significant increase in concentrations of VOCs or SVOCs is observed at the perimeter wells, or the concentrations are non-detect for COCs, the monitoring frequency will decrease from annually to biennially. If COCs continually are not increasing at the monitoring wells after eight consecutive biennial monitoring events (i.e., sixteen years), RACER Trust will submit a written request to DNREC-RS to eliminate the GMP at OU-4.

4. Reporting

Upon completion of each annual sampling event, along with the receipt of the final analytical result, a data quality assessment and validation will be completed. DNREC-RS will be provided an annual letter report summarizing the analytical results generated from the sampling event. The report will document trends, if any, noted from the analytical data and water table aquifer groundwater contour maps. The report will also evaluate data to determine whether adjustments to the monitoring program are needed based on the criteria presented Section 3.3. No reduction in the groundwater monitoring program will be made in the first 5 years of monitoring. Thereafter, if the groundwater data indicates that there are no significant variations in the impacted groundwater, RACER Trust will present a written request to modify the groundwater monitoring plan from annually to biennial and provide the technical rationale for any sampling reduction request.

The annual report will be submitted to DNREC-RS within 90 days following completion of the annual sampling event. Analytical results will be compared to DNREC RS Screening Levels.

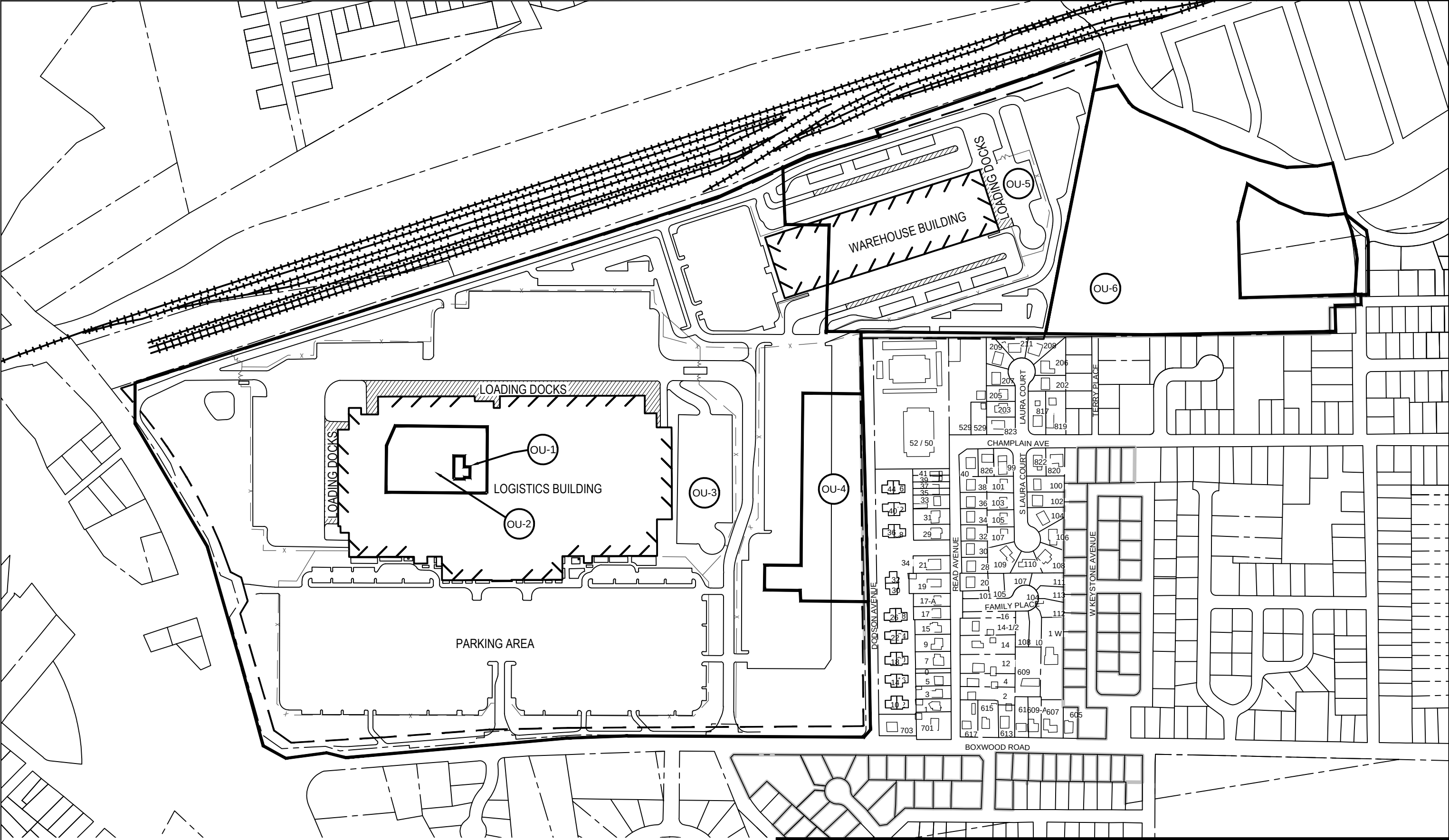


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Project No. 1122397
 Date December 2021

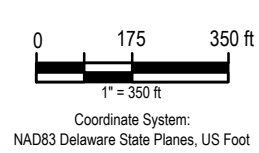
FACILITY LOCATION

FIGURE 1.1



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- +++++ RAILWAY
- - - FENCELINE

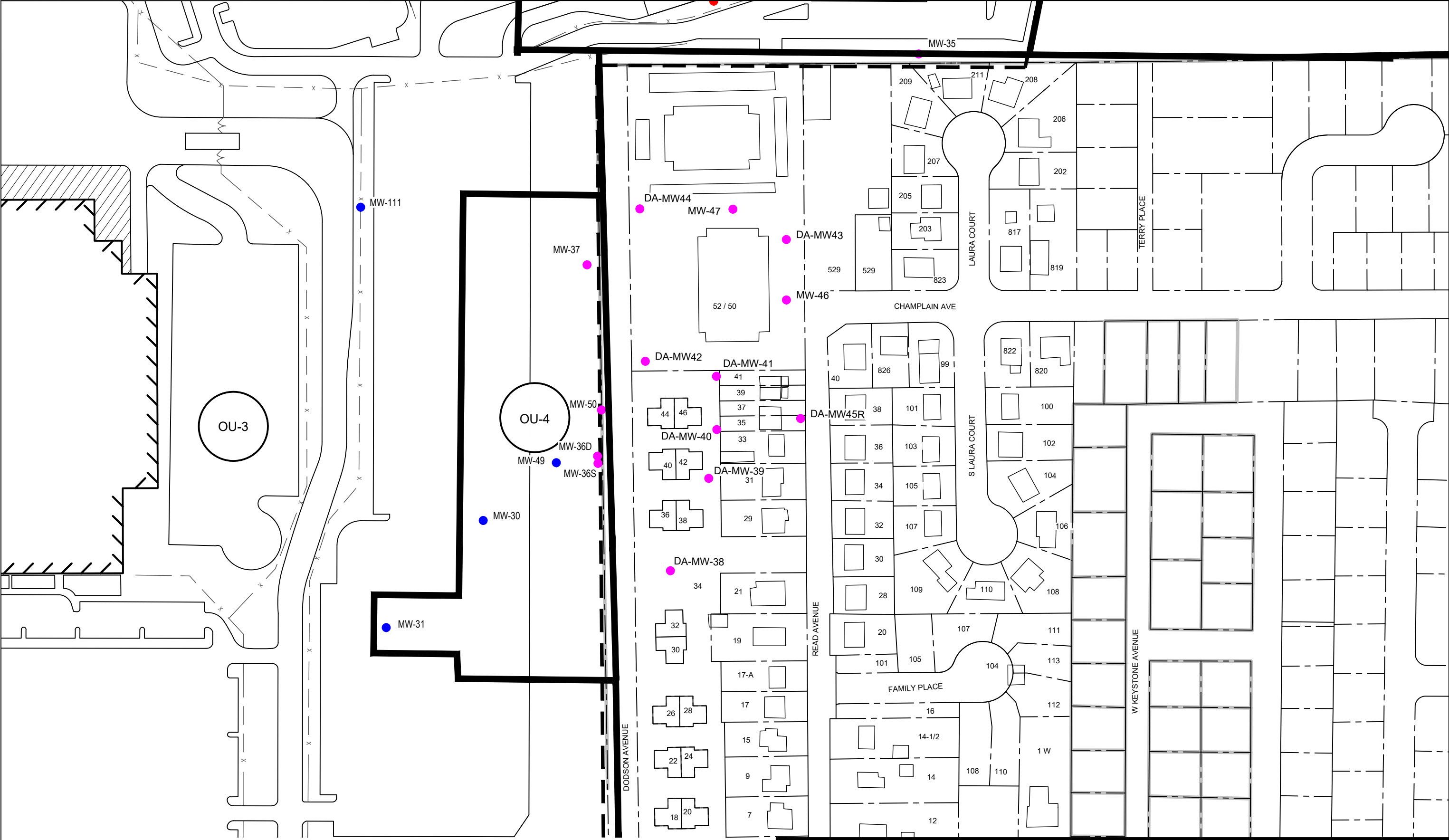


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LOCATION OF OPERABLE UNITS

Project No. 11222397
Date December 2021

FIGURE 1.2



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- ++++ RAILWAY
- - - - FENCELINE

MW-109 MONITORING WELL

MW-28 ABANDONED MONITORING WELL

0 75 150 ft

1" = 150 ft

Coordinate System:
NAD83 Delaware State Planes, US Foot

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OU-4 GROUNDWATER MONITORING PLAN

Project No. 11222397
Date August 2024

GROUNDWATER SAMPLING LOCATIONS

FIGURE 3.1

Appendix D

OU-5 Groundwater Monitoring Plan



OU-5 Groundwater Monitoring Plan

**Former GM Wilmington Assembly Plant
Wilmington, Delaware**

RACER Trust

(Revitalizing Auto Communities Environmental Response Trust)

Appendix D to the Long-Term Stewardship Plan

Original – December 2019

Revision 1 – December 2021

January 14, 2022

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Figure index

Figure 1.1	Facility Location
Figure 1.2	Site Layout
Figure 3.1	Groundwater Sampling Locations

1. Introduction

This Groundwater Monitoring Plan (GMP) has been developed by GHD to monitor groundwater in Operable Unit 5 (OU-5). The objectives of the GMP are to:

- Ensure the groundwater impacted with Chemicals of Concern (COCs) are not extending beyond the OU-5 boundary.
- Ensure the COC concentrations are not exhibiting an increasing trend over the monitoring period.

The GMP covers OU-5 at the Former General Motors (GM) Corp. Wilmington Assembly Plant (Site or Facility) located at 851 and 1025 Boxwood Road in Wilmington, Delaware. The Site location is provided on Figure 1.1. The location of OU-5 is shown on Figure 1.2.

2. Background

2.1 Site History

The Site consists of the property located at 851 and 1025 Boxwood Road, New Castle County, Wilmington, Delaware. The Facility consists of two tax parcels totaling approximately 142 acres of land which, formerly included a 3.2 million square foot Main Assembly Building, Waste Water Treatment Plant (WWTP), Pump Houses and a Powerhouse. The Facility was developed in 1945 by GM Corporation for the purpose of automobile assembly operation until July 2009 when the plant was idled. Presently, the site has been redeveloped for logistics and warehouse use, to be contained in two buildings which are both substantially complete.

Due to GM Corporation's 2009 bankruptcy, certain operating assets of GM Corporation were sold on July 10, 2009 to General Motors LLC. Existing non continuing assets, including the Site, remained the property of GM Corporation which was known as Motors Liquidation Company (MLC), in its capacity as debtor in possession in the bankruptcy case. The Site was sold by MLC to Fisker Automotive, Inc. (Fisker) in July 2010. On March 31, 2011, the Revitalizing Auto Communities Environmental Response Trust (RACER Trust) became effective and RACER Trust has been conducting, managing, and funding cleanup at the 89 former GM Corporation sites, including the former Wilmington Assembly Plant.

Between July 2009 and April 2014, the plant remained idle with limited activities present at the Site while Fisker evaluated opportunities to revive the assembly plant. Fisker filed for bankruptcy in November 2013 and the Site was purchased by Wanxiang Delaware Real Estate Holdings (Wanxiang) in April 2014 as part of a purchase by Wanxiang of Fisker's assets. In October 2017, Harvey, Hanna & Associates, Inc.'s special purpose entity, Boxwood Industrial Park, LLC (Boxwood), purchased the Site from Wanxiang. On November 7, 2019, Dermody Properties special purchase entity DPIF2 DE 1 New Castle LLC (Dermody) purchased portions of the site (OU-1, OU-2, and OU-3) from Boxwood. On January 29, 2020, Dermody purchased additional portions of the site (OU-4 and OU-5) from Boxwood. Dermody completed Site redevelopment activities in September 2021, which included an approximately 820,000 square foot logistics building in OU-1, OU-2 and OU-3 and an approximately 220,000 square foot warehouse building in OU-3 and OU-5. No buildings are currently planned in the OU-4 area, and it is currently parking or landscaped; however, this area may be developed with additional buildings or other improvements in the future. Dermody also reconfigured the Site into two tax parcels by legal subdivision, whereas there were formerly five total. DPIF2 DE 1 New Castle, LLC currently owns Lot 1 which contains the approximately 820,000 square foot building and associated improvements, and DPIF2 DE2 New Castle2, LLC currently owns Lot 2 which contains the approximately 220,000 square foot building and associated improvements.

The Site contained operations for the manufacturing of automobiles including, but not limited to, petroleum products for fueling and heating, painting, wastewater treatment plant, cleaning parts, and hazardous waste storage. Each of

these operations used various chemicals. Releases occurred at the Site likely as a result of historical operations, which impacted the soil and groundwater beneath the Site.

2.2 Geology

A review of soil borings advanced during the remedial investigation showed the soils in OU 5 to be fill underlain by unconsolidated sediments consisting primarily of silty sands and clays, from below the paved surface to a depth of approximately 5 to 10 feet below ground surface (bgs). Gravel lenses are seen ranging in thickness from 1 to 5 feet at varying depths across OU-5.

A review of historical soil boring logs from previous investigations indicates that there appears to be a continuous sand layer ranging from 16 to 30 feet in thickness with starting depths ranging from approximately 7.8 feet bgs to 11.5 feet bgs and extending to depths ranging from approximately 23.8 feet bgs to 40 feet bgs (based on ground surface elevations prior to development activities which included regrading of the Site). The historical logs also indicate that the sand layer is underlain by reddish brown clay of an undetermined thickness.

2.3 Hydrogeology

OU-5 groundwater was observed at an average depth of approximately 8 feet bgs (based on ground surface elevations prior to development activities which included regrading of the Site) during previous investigations from 2011 to 2017. The now-demolished Main Assembly Plant appeared to have created a groundwater divide at the Site with groundwater on the east side flowing to the east toward Little Mill Creek and groundwater on the west side flowing to the west towards Red Clay Creek.

Historically surface water flow across the Facility was directed to the Facility storm sewer system, which discharged to Little Mill Creek at Outfall 001. The redevelopment of the Site did not change the point of storm sewer system discharge to Little Mill Creek; however, some surface water flow is directed to three bio-basins before entering the on-Site storm sewer system which connects to Outfall 001. With the exception of Little Mill Creek which is located in OU-6, there were no surface water bodies or waterways (streams, rivers, lakes, etc.), including associated wetlands, floodplains, and riparian zones present on Facility or immediately adjacent to the Facility.

Little Mill Creek is located in the wooded area along the eastern property boundary. Approximately 1,000 feet of this creek is located within the Facility property. Little Mill Creek discharges to the Christina River approximately 1 mile downstream. Red Clay Creek is located approximately 1.1 miles west of the Facility and also discharges to the Christina River. The Christina River is the major river draining this portion of New Castle County. There are no lakes or significant ponds within one mile of the Facility.

2.4 Impacted Area: OU-5

OU-5 is located in the northeast corner of the Site and includes the former WWTP and former test track area. The area currently consists primarily of paved areas which were used for the staging of completed vehicles prior to shipment in the most recent active years of the plant. Historical activities in OU-5 reportedly included the open burning of pallets and boxes near the Tire Building and in the vicinity of the former test track, and the former storage of paint sludge and/or other sludges. The boundaries of OU-5 are shown on Figure 1.2.

A comprehensive review and evaluation of potential releases to the environment for OU-5 was completed and summarized in the 2015 Remedial Investigation (RI) Report. The RI Report identified that groundwater in OU-5 contained concentrations of volatile organic compounds (VOCs) (benzene, cis 1,2 dichloroethene, ethylbenzene, trichloroethene, xylenes and vinyl chloride), semi volatile organic compounds (SVOCs) (naphthalene), and metals (aluminum, arsenic, barium, cobalt, iron, manganese, and vanadium) above the Department of Natural Resources and Environmental Control – Remediation Section (DNREC RS) Screening Levels.

Site wide groundwater samples were collected in 2017 to facilitate potential reuse of the Site and were reported in the draft 2019 Site Wide Groundwater Monitoring Report (GHD, 2019). Concentrations of VOCs (1,2,4 trimethylbenzene,

benzene, trichloroethene, and vinyl chloride), SVOCs (naphthalene), and metals (antimony, arsenic, barium, cobalt, iron and manganese) exceeded DNREC RS Screening Levels in OU-5, consistent with the findings from the RI Report.

Two new shallow monitoring wells (MW-112 and MW-113) were installed along the eastern boundary of OU-5 in 2018 and sampled (along with MW-28) to assess groundwater near the perimeter of OU-5 and potential migration of contaminants of concern (COCs) toward Little Mill Creek, as summarized in a November 15, 2018, letter to DNREC-RS (GHD, 2018b). The 2018 sampling identified that concentrations of four metals (arsenic, cobalt, iron and manganese) exceeded the DNREC RS Screening Levels and five metals (arsenic, barium, cobalt, iron, and manganese) exceeded DNREC RS Ecological Surface Water Fresh (Eco FW) Screening Levels. Only barium, iron, and manganese exceeded the Eco FW Screening Levels in the two perimeter wells (MW-112 and MW-113). As noted in the November 15, 2018, letter to DNREC-RS, barium was detected in Little Mill Creek in 2014, but is attributed to natural sources. Iron and manganese concentrations were estimated in Little Mill Creek based on maximum concentrations in groundwater from MW-112 and MW-113. The calculated concentrations were both below the respective Eco FW Screening Levels. As such, OU-5 groundwater is not impacting off-Site receptors.

3. Monitoring Activities

3.1 Monitoring Well Condition Assessment

A monitoring well condition assessment will be conducted to verify the current condition of the remaining monitoring wells in OU-5. This will consist of a visual inspection, water level measurement, and well depth sounding. The results of the monitoring well condition assessment will be presented in a memorandum. Any deficiencies in the wells identified will be addressed. Once well deficiencies are addressed, selected wells for groundwater sampling will be redeveloped prior to sample collection.

Monitoring well MW-35 is located beneath a permanent privacy berm and will be abandoned, as approved by DNREC in a July 26, 2021, email.

Monitoring wells MW-48, MW-109, and MW-113 were relocated from paved areas to landscaped areas in OU-5 and reinstalled as MW-48R, MW-109R, and MW-113R in September 2021 at locations discussed and agreed upon with DNREC and at vertical depths consistent with the original wells. Additionally, MW-112 was damaged during site development activities and was repaired and raised to existing grade in September 2021. Monitoring well MW-28R was reinstalled in November 2021 at a location discussed and agreed upon with DNREC and at a vertical depth consistent with the original installation of MW-28. The location of OU-5 LTS wells is shown on Figure 3.1.

3.2 Groundwater Monitoring

3.2.1 Static Water Levels

Static water levels will be collected annually from monitoring wells MW-28R, MW-48R, MW-109R, MW-112 and MW-113R in OU-5. Depth to water will be recorded to the nearest hundredth of a foot, utilizing the top of the riser as the reference point.

3.2.2 Groundwater Sampling

Groundwater samples will be collected annually from perimeter groundwater monitoring wells MW-48R, MW-109R, MW-112 and MW-113R, shown on Figure 3.1. MW-48R, MW-109R, MW-112 and MW-113R have shown low to non-detect concentrations of COCs and are located on the south and eastern perimeter of OU-5. These perimeter wells will be monitored for increased concentrations of COCs compared to historical data, which will identify if impacted groundwater is migrating either off Site or toward surface water in Little Mill Creek.

Groundwater samples will be analyzed for total metals. Metals were selected as parameters based on previous groundwater data sets from OU-5 monitoring wells. Previously, groundwater from MW-35 was analyzed for VOCs (benzene and trichloroethene); however, because MW-35 will be abandoned, groundwater from MW-48R will be analyzed for VOCs since it is closest in proximity to MW-35, as requested in a July 26, 2021 email from DNREC.

An initial round of groundwater sampling occurred in 2020 prior to completion of permanent cap in the Test Track Area.

The groundwater monitoring for the perimeter wells will continue for 5 years (four additional sampling events). Analytical data from the sampling events will be compared to historical data to determine if COC concentrations are increasing or migrating to the perimeter wells (MW-48R, MW-109R, MW-112 and MW-113R). Based on the comparison to historical data, the monitoring plan will be adjusted to increase or decrease frequency of sampling (detailed in Section 3.3).

All groundwater samples will be collected using low flow sampling techniques. Prior to groundwater sample collection, each monitoring well will be purged until field parameters stabilize. Field parameters will consist of pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity.

Groundwater samples will be placed into a pre cleaned laboratory provided container, properly labeled, placed on ice, and submitted under chain of custody protocol for selected laboratory analysis. All generated purge water will be visually examined and will be discharged directly to ground surface unless it has an odor, sheen, or non-aqueous phase liquid (NAPL). If odor, sheen, or NAPL is present, purge water will be placed in Department of Transportation (DOT) approved 55-gallon closed top drums prior to appropriate off-Site disposal by RACER Trust.

3.3 Monitoring Plan Adjustments

3.3.1 Monitoring Plan: Step Up

After five sampling events, analytical results will be compared to historical data to determine if COC concentrations are increasing, decreasing or stable. If a statistically significant increase in concentration of metals is observed, RACER Trust will contact DNREC-RS to discuss the next steps including evaluating active remediation.

3.3.2 Monitoring Plan: Step Down

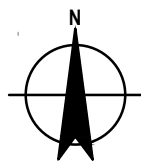
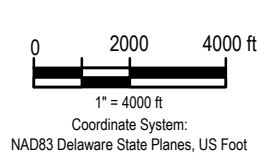
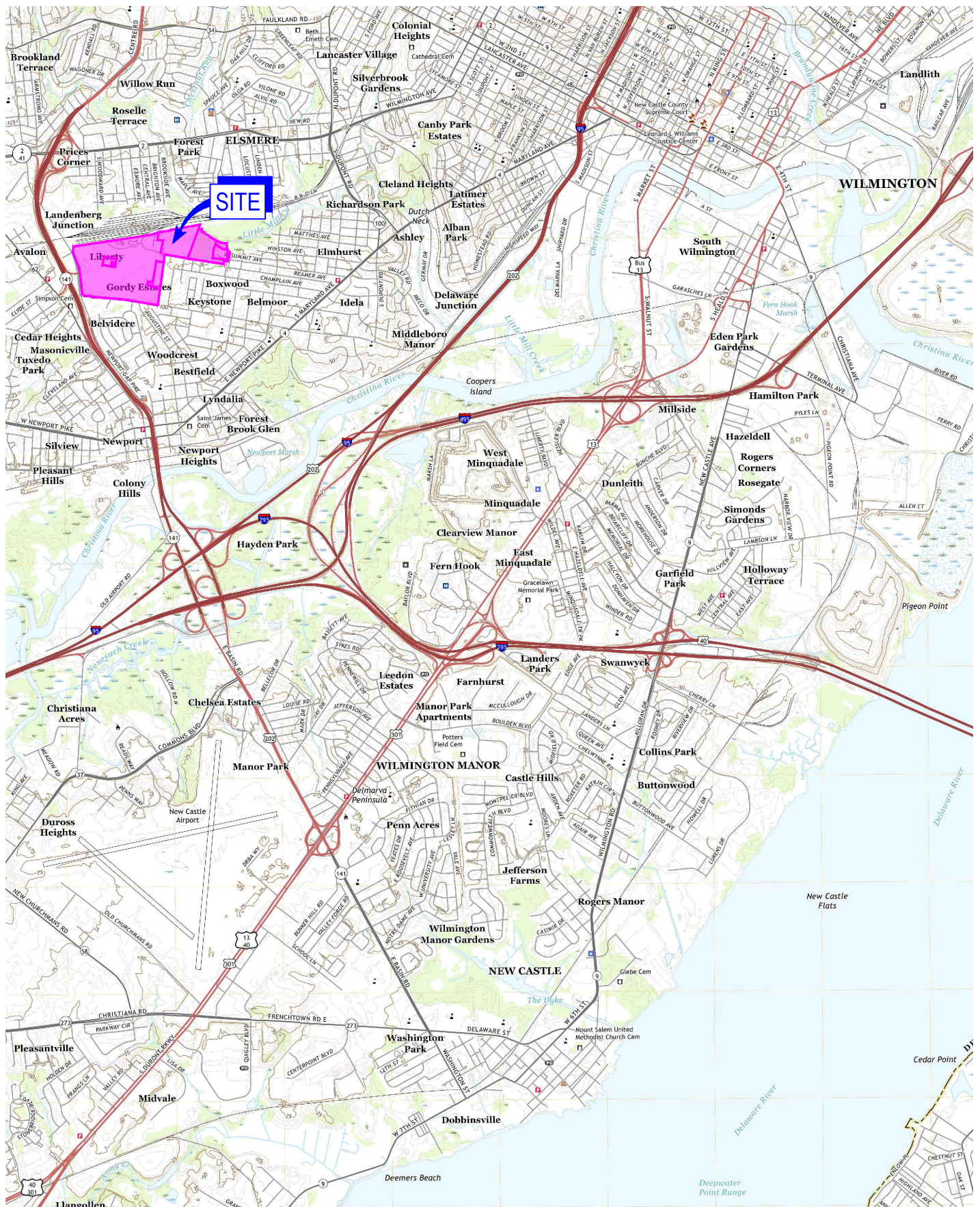
After five sampling events, analytical results will be compared to historical data to determine if COC concentrations are increasing, decreasing or stable. If a statistically significant decrease in concentrations of metals is observed at the perimeter wells, or they are non-detect for COCs, the monitoring frequency will decrease from annually to biennially. If COCs continually decrease or remain stable at the monitoring wells after eight consecutive biennial monitoring events, RACER Trust will submit a written request to DNREC to eliminate the GMP at OU-5. If the results of the GMP indicate migration or an increasing trend, the contingency measures set forth in the Final Plan of Remediation for OU-5 will be implemented by RACER Trust.

4. Reporting

Upon completion of each annual sampling event, along with the receipt of the final analytical result, a data quality assessment and validation will be completed. DNREC-RS will be provided an annual letter report summarizing the analytical results generated from the sampling event. The report will document trends, if any, noted from the analytical data and water table aquifer groundwater contour maps. The report will also evaluate data to determine whether adjustments to the monitoring program are needed based on the criteria presented Section 3.3. No reduction in the groundwater monitoring program will be made in the first 5 years of monitoring. Thereafter, if the groundwater data indicates that there are no significant variations in the impacted groundwater, RACER Trust will present a written

request to modify the groundwater monitoring plan and provide the technical rationale for any sampling reduction request.

The annual report will be submitted to DNREC-RS within 90 days following completion of the annual sampling event. Analytical results will be compared to DNREC RS Screening Levels.

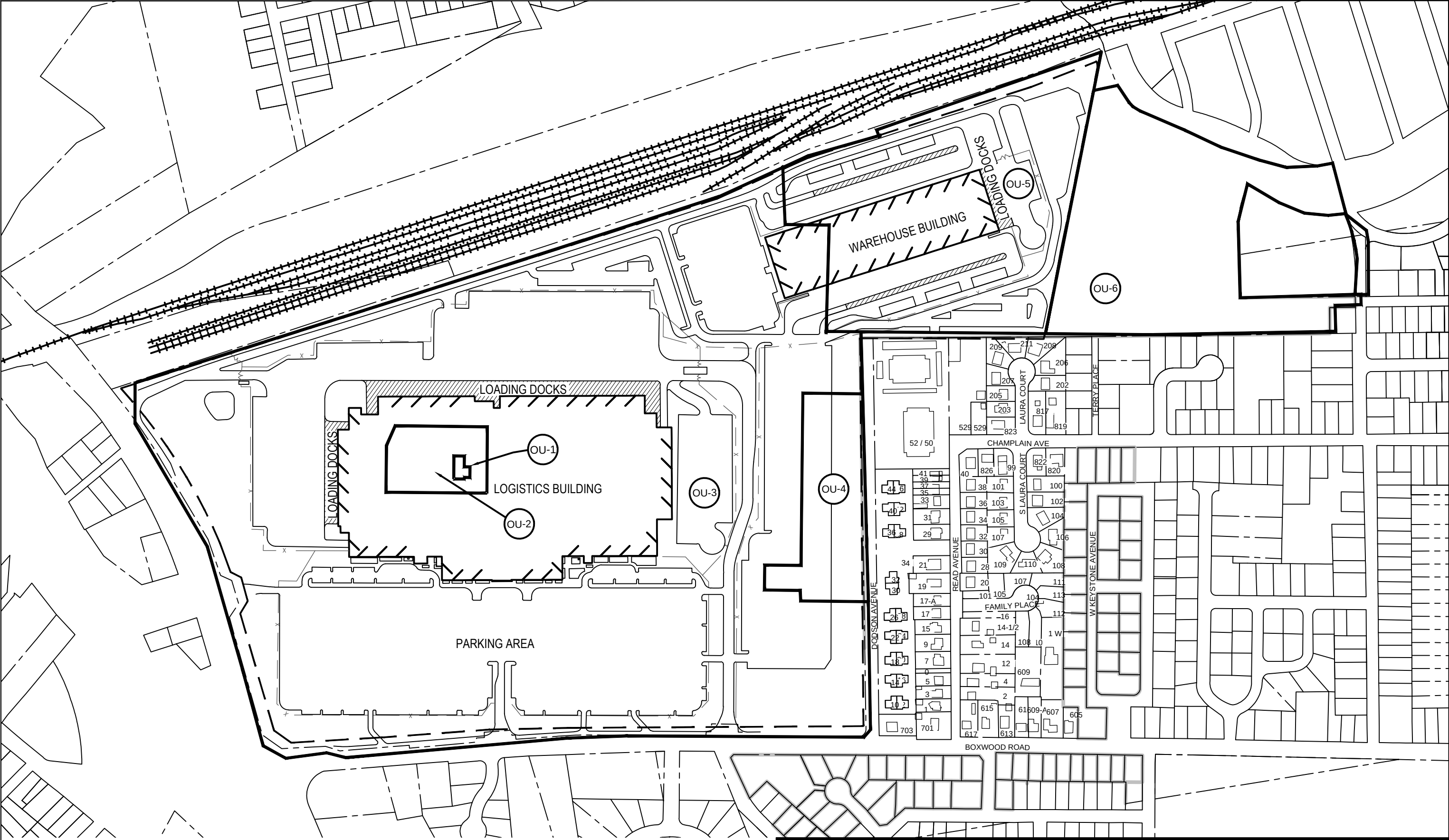


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Project No. 11222397
 Date December 2021

FACILITY LOCATION

FIGURE 1.1

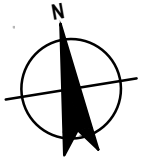


LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- ++++ RAILWAY
- x-x- FENCELINE



Coordinate System:
NAD83 Delaware State Planes, US Foot

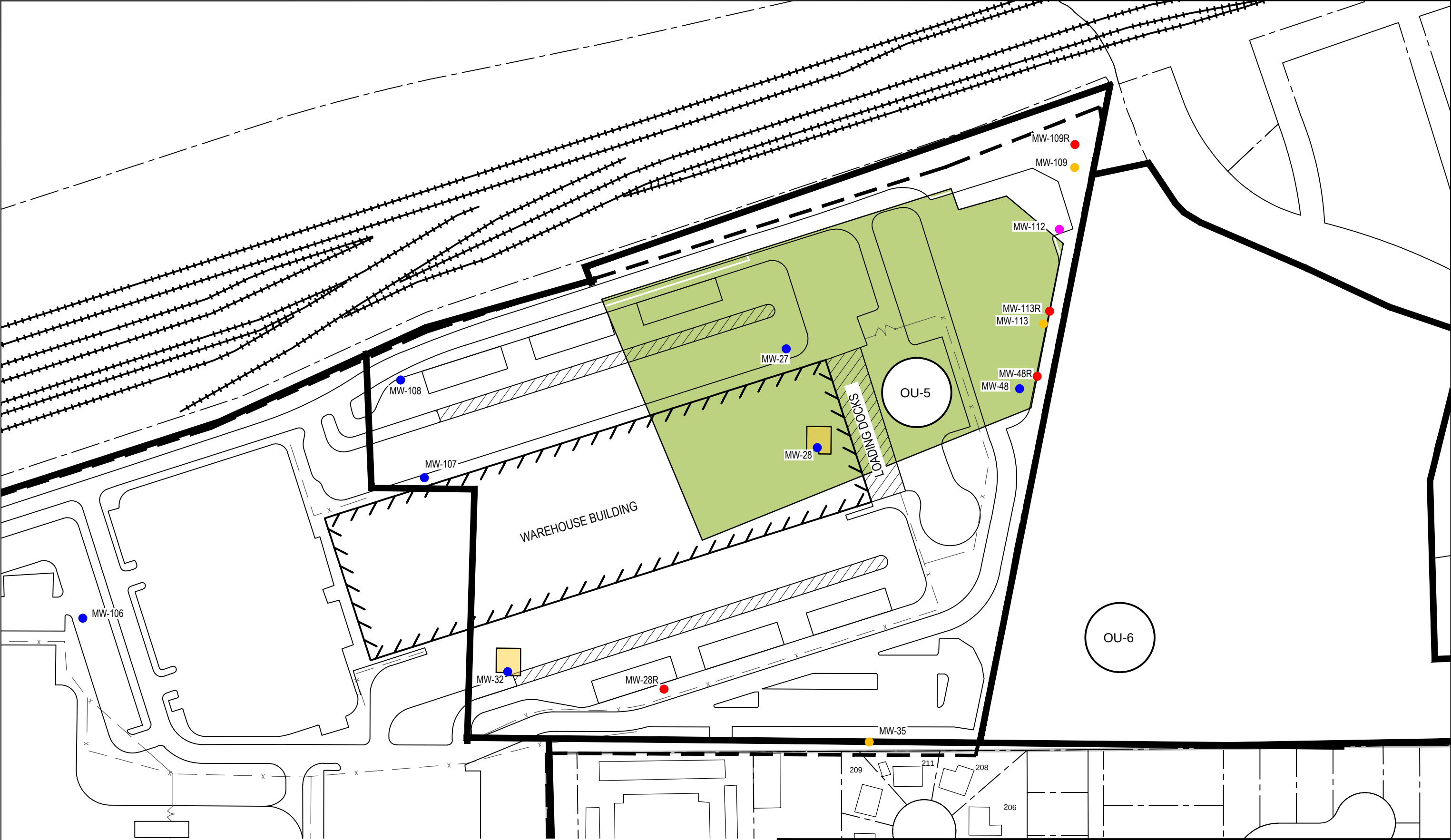


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LOCATION OF OPERABLE UNITS

Project No. 11222397
Date December 2021

FIGURE 1.2

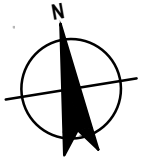
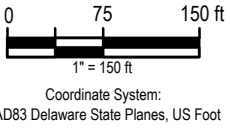


LEGEND

- APPROXIMATE FACILITY BOUNDARY
- OPERABLE UNIT (OU) BOUNDARY
- ++++ RAILWAY
- - - FENCELINE

- MW-112 MONITORING WELL
- MW-28 ABANDONED MONITORING WELL
- MW-19R REINSTALLED LTS MONITORING WELL
- MW-109 INACCESSIBLE MONITORING WELLS

- TEST TRACK CAP AREA EXTENT
- APPROXIMATE EXTENT OF 2019 EXCAVATION



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OU-5 GROUNDWATER MONITORING PLAN

GROUNDWATER SAMPLING LOCATIONS

Project No. 11222397
Date January 2022

FIGURE 3.1