RESPONSE AND DEVELOPMENT WORK PLAN

AREA A: SUB-PARCEL A11-2 TRADEPOINT ATLANTIC SPARROWS POINT, MARYLAND

Prepared For:



TRADEPOINT ATLANTIC 1600 Sparrows Point Boulevard Sparrows Point, Maryland 21219

Prepared By:



ARM GROUP LLC

9175 Guilford Road Suite 310 Columbia, Maryland 21046

ARM Project No. 21010111

Respectfully Submitted:

Kay Sul

Kaye Guille, P.E., PMP Senior Engineer

Alal Pets

T. Neil Peters, P.E. Senior Vice President

Revision 3 – June 30, 2022

TABLE OF CONTENTS

1.0 Introd	uction	1
2.0 Site D	escription and History	4
2.1 Site	Description	4
2.2 Site	History	4
3.0 Envire	onmental Site Assessment Results	6
3.1 Pha	se I Environmental Site Assessment Results	6
3.2 Pha	se II Investigations	
3.2.1	Parcel A11 Phase II Investigation	7
3.2.2	Supplemental Delineation Investigation	8
3.2.3	Summary of Results	
3.2.4	Delineation Thresholds	
3.3 Hu	nan Health Screening Level Risk Assessment	10
3.3.1	Analysis Process	10
3.3.2	SLRA Results and Risk Characterization	13
3.4 Eva	luation of RCRA Criteria	16
3.4.1	Establishment of Media Cleanup Objectives	16
3.4.2	Identification of Remedial Alternatives	16
3.4.3	Initial Screening of Remedial Alternatives	19
3.4.4	Detailed Evaluation of Alternatives	20
3.4.4.1	Long-Term Effectiveness	20
3.4.4.2	Reduction in Toxicity, Mobility, or Volume of Wastes	21
3.4.4.3	Short-Term Effectiveness	22
3.4.4.4	Implementability	22
3.4.4.5	Community Acceptance	23
3.4.4.6	State Acceptance	23
3.4.4.7	Cost	24
3.4.5	Justification of Recommendation and Remedial Alternative	24
4.0 Propo	sed Site Development Plan	26
	ponse Phase	
4.1.1	Groundwater Network Abandonments & Retention	27
4.1.2	Groundwater Remedies & Monitoring	28
4.2 Dev	velopment Phase	
4.2.1	Erosion and Sediment Control Installation	29
4.2.2	Hot Spot Soil Excavation	29
4.2.3	Grading and Site Preparation	30
4.2.4	Installation of Structures and Underground Utilities	30
4.2.5	Floor Slabs and Paving	30
4.2.6	Sub-Slab Vapor Barrier with Passive/Active Venting System	31
4.2.7	Landscaping	32
4.2.8	Stormwater Management	32
5.0 Devel	opment Implementation Protocols	33
5.1 Dev	velopment Phase	33
5.1.1	Erosion/Sediment Control	34



5.1	.2 Soil Excavation and Utility Trenching	
5.1	.3 Soil Sampling and Disposal	
5.1	.4 Fill	
5.1	.5 Dust Control	
5.2	Water Management	
5.2	.1 Groundwater PAL Exceedances	
5.2	.2 Dewatering	
5.3	Health and Safety	
5.4	Institutional Controls (Future Land Use Controls)	
5.5	Post Remediation Requirements	
5.6	Construction Oversight	
6.0 P	Permits, Notifications and Contingencies	
	mplementation Schedule	
	-	

FIGURES

Figure 1	Area A & Area B Parcels	.Following Text
Figure 2	Development Plan Layout	.Following Text
Figure 3	Sub-Parcel Comparison	.Following Text
Figure 4	Phase II Investigation Soil Boring Locations	
Figure 5	Phase II Investigation Groundwater Sample Locations	.Following Text
Figure 6	Supplemental Investigation Soil Boring Locations	.Following Text
Figure 7	Supplemental Investigation Groundwater Sample Locations	.Following Text
Figure 8a/b	Soil NAPL Observations	.Following Text
Figure 9	Groundwater Conditions Summary	.Following Text
Figure 10	Groundwater NAPL Gauging Status	.Following Text
Figure 11	Shallow Groundwater Elevations	.Following Text
Figure 12	Soil Sample Results and Vadose Zone Isopach	.Following Text
Figure 13	Well Network, Groundwater Results, & Soil NAPL Observations .	.Following Text
Figure 14	Development Plan Layout – Cap Types	.Following Text
Figure 15	Groundwater Network Abandonment Details	.Following Text
Figure 16	Sub-Slab Piping Layout	.Following Text
Figure 17	Areas Requiring Mitigative Measures	.Following Text

TABLES

Summary of Organics Detected in Soil	Following Text
Summary of Inorganics Detected in Soil	Following Text
Summary of Organics Detected in Groundwater	Following Text
Summary of Inorganics Detected in Groundwater	Following Text
Summary of Remedial Alternatives Evaluation	Following Text
COPC Screening Analysis	Following Text
	Summary of Organics Detected in Soil Summary of Inorganics Detected in Groundwater Summary of Inorganics Detected in Groundwater Summary of Remedial Alternatives Evaluation COPC Screening Analysis



Table 7	Assessment of Lead	.Following Text
Table 8	Soil Exposure Point Concentrations	.Following Text
Table 9	Risk Ratios – Composite Worker Surface Soil	.Following Text
Table 10	Risk Ratios – Composite Worker Subsurface Soil	.Following Text
Table 11	Risk Ratios – Composite Worker Pooled Soil	.Following Text
Table 12	Risk Ratios – Construction Worker Surface Soil	.Following Text
Table 13	Risk Ratios – Construction Worker Subsurface Soil	.Following Text
Table 14	Risk Ratios – Construction Worker Pooled Soil	.Following Text

APPENDICES

Appendix A	CHS Request Letter from Tradepoint Atlantic	Following Text
Appendix B	Construction Worker SSL Calculation Sheet	Following Text
Appendix C	Personal Protective Equipment Standard Operational Procedure	Following Text
Appendix D	Development Plan Drawing	Following Text
Appendix E	Minimum Capping Section Details	Following Text
Appendix F	Venting System & Vapor Barrier Specifications	Following Text
Appendix G	Sub-Slab Soil Gas & Indoor Air Monitoring Plan	Following Text
Appendix H	Utility Trench Section Detail	Following Text
Appendix I	Utility Excavation NAPL Contingency Plan	Following Text
Appendix J	Conceptual Dewatering Flow Diagram	Following Text
Appendix K	Groundwater Historic Trends	Following Text

ELECTRONIC ATTACHMENTS

Soil Laboratory Certificates of Analysis	Electronic Attachment
Soil Data Validation Reports	Electronic Attachment
Groundwater Laboratory Certificates of Analysis	Electronic Attachment
Groundwater Data Validation Reports	Electronic Attachment



1.0 INTRODUCTION

ARM Group LLC (ARM), on behalf of Tradepoint Atlantic, has prepared this Response and Development Work Plan (RADWP) for a portion of the Tradepoint Atlantic property that has been designated as Area A: Sub-Parcel A11-2 (the Site). Tradepoint Atlantic submitted a letter (**Appendix A**) requesting an expedited plan review to achieve construction deadlines for the proposed development on this Site. Parcel A11 is comprised of approximately 102 acres of the approximately 3,100-acre former plant property. As shown on **Figure 1**, Sub-Parcel A11-2 consists of approximately 29.5 acres located within Parcel A11.

As shown on **Figure 2**, Sub-Parcel A11-2 is slated for development and occupancy as two logistics centers. A northern logistics center building will have an area of approximately 368,800 square feet and a southern logistics center building will have an area of approximately 107,400 square feet. Associated water lines, sanitary sewer lines, storm drains, conventional and trailer parking, access roads, and interior roads are also proposed. The planned development activities will generally include grading; construction of buildings; installation of utilities; and paving of parking areas and roadways. Subsequent site-use will involve workers in the on-site buildings, and truck drivers entering and leaving the Site with goods. Outside of the main development area designated as Sub-Parcel A11-2, temporary construction zones (not intended for permanent occupancy) with a total area of less than 4 acres within the Limit of Disturbance (LOD) will be utilized along the edges of the project area.

The conduct of any environmental assessment and cleanup activities on the Tradepoint Atlantic property, as well as any associated development, is subject to the requirements outlined in the following agreements:

- Administrative Consent Order (ACO) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the Maryland Department of the Environment (MDE), effective September 12, 2014; and
- Settlement Agreement and Covenant Not to Sue (SA) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the United States Environmental Protection Agency (USEPA), effective November 25, 2014.

Sub-Parcel A11-2 is part of the acreage that was removed (Carveout Area) from inclusion in the Multimedia Consent Decree between Bethlehem Steel Corporation, the USEPA, and the MDE (effective October 8, 1997) as documented in correspondence received from USEPA on September 12, 2014. Based on this agreement, USEPA determined that no further investigation or corrective measures will be required under the terms of the Consent Decree for the Carveout Area. However, the SA reflects that the property within the Carveout Area will remain subject to the USEPA's Resource Conservation and Recovery Act (RCRA) Corrective Action authorities.



An application to enter the full Tradepoint Atlantic property (3,100 acres) into the MDE Voluntary Cleanup Program (MDE-VCP) was submitted to the MDE and delivered on June 27, 2014. The property's current and anticipated future use is Tier 3 (Industrial) and plans for the property include demolition and redevelopment over several years.

In consultation with the MDE, Tradepoint Atlantic affirms that it desires to accelerate the assessment, remediation, and redevelopment of certain sub-parcels within the larger site due to current market conditions. To that end, the MDE and Tradepoint Atlantic agree that the Controlled Hazardous Substance (CHS) Act (Section 7-222 of the Environment Article) and the CHS Response Plan (Code of Maryland Regulations (COMAR) 26.14.02) shall serve as the governing statutory and regulatory authority for completing the development activities on the Sub-Parcel A11-2 and complement the statutory requirements of the VCP (Section 7-501 of the Environment Article). Upon submission of a RADWP and completion of any remedial activities for the sub-parcel, the MDE shall issue a No Further Action Letter (NFA) upon a recordation of an Environmental Covenant describing any necessary land use controls for the specific sub-parcel. At such time that all the sub-parcels within the larger parcel have completed remedial activities, Tradepoint Atlantic shall submit to the MDE a request for issuing a Certificate of Completion (COC) as well as all pertinent information concerning completion of remedial activities conducted on the parcel. Once the VCP has completed its review of the submitted information it shall issue a COC for the entire parcel described in Tradepoint Atlantic's VCP application.

Alternatively, Tradepoint Atlantic or other entity may elect to submit an application for a specific sub-parcel and submit it to the VCP for review and acceptance. If the application is received after the cleanup and redevelopment activities described in this RADWP are implemented and a NFA is issued by the MDE pursuant to the CHS Act, the VCP shall prepare a No Further Requirements Determination for the sub-parcel.

If Tradepoint Atlantic or other entity has not carried out cleanup and redevelopment activities described in the RADWP, the cleanup and redevelopment activities may be conducted under the oversight authority of either the VCP or the CHS Act, so long as those activities comport with this RADWP.

This RADWP provides a Site description and history; summary of environmental conditions identified by the Phase I Environmental Site Assessment (ESA); summary of environmental conditions identified by the Parcel A11 Phase II Investigation and supplemental sampling activities; brief discussion of a human health Screening Level Risk Assessment (SLRA) conducted for the identified conditions; and any necessary engineering and/or institutional controls to facilitate the planned Sub-Parcel A11-2 development and address the impacts and potential human health exposures. These controls include work practices and applicable protocols that are submitted for approval to support the development and use of the Site. Engineering/institutional controls approved and installed for this RADWP shall be described in closure certification



documentation submitted to the MDE demonstrating that exposure pathways on the Site are addressed in a manner that protects public health and the environment.

Parcel A11 also contains the Sub-Parcel A11-1 development area covered by the previously approved RADWP (Revision 4 dated May 28, 2019). The Sub-Parcel A11-1 consisted of approximately 12.7 acres within the eastern portion of Parcel A11. Sub-Parcel A11-1 and Sub-Parcel A11-2 cover most of the acreage in the eastern half of Parcel A11. **Figure 3** shows the remaining areas that exist outside of the sub-parcel development boundaries, but inside the investigative Parcel A11. The remaining acreage of Parcel A11 will be addressed in future work associated with completion of the obligations of the ACO and associated VCP requirements. This work will include assessments of risk and, if necessary, RADWPs to address unacceptable risks associated with future land use. As noted above, temporary construction zones with a total area of less than 4 acres will be utilized along the edges of the project area outside of the sub-parcel. The temporary work outside of the boundary of the Site is not intended to be the basis for the issuance of a NFA or a COC, although the scope of construction is covered by this RADWP.



2.0 SITE DESCRIPTION AND HISTORY

2.1 SITE DESCRIPTION

Parcel A11 includes an area of 102 acres as shown on **Figure 1**. The Sub-Parcel A11-2 development project consists of 29.5 acres intended for occupancy comprising approximately a third of Parcel A11. The development will include two logistics centers. The northern logistics center will have an area of approximately 368,800 square feet. The southern logistics center will have an area of approximately 107,400 square feet. The configuration of these two logistics centers is presented on **Figure 2**. Outside of the main development area designated as Sub-Parcel A11-2, temporary construction zones (not intended for permanent occupancy) with a total area of less than 4 acres within the construction LOD will be utilized along the edges of the project area. The Site is currently zoned Manufacturing Heavy-Industrial Major (MH-IM) and is not occupied. The adjacent Sub-Parcel A11-1 recently underwent development, and a logistics center was constructed. Development in Sub-Parcel A11-1 was detailed in the Sub-Parcel A11-1 RADWP (Revision 4 dated May 28, 2019). There is no groundwater use on-site or within the surrounding Tradepoint Atlantic property.

Sub-Parcel A11-2 is at an average elevation of approximately 13 feet above mean sea level (amsl). Elevations generally range between 11 and 14 feet over Sub-Parcel A11-2, with the exception of a few higher elevations caused by small soil/slag stockpiles. Elevations are fairly uniform at the Site with no clear discharge direction for surface water drainage. According to Figure B-2 of the Stormwater Pollution Prevention Plan (SWPPP) Revision 8 dated April 30, 2020, stormwater from the main development area of Sub-Parcel A11-2 is discharged through the drainage ditch along Peninsula Expressway and into Bear Creek.

2.2 SITE HISTORY

From the late 1800s until 2012, the production and manufacturing of steel was conducted at Sparrows Point. Iron and steel production operations and processes at Sparrows Point included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, Sparrows Point was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steel making operations at the facility ceased in fall 2012.

The eastern portion of Parcel A11 was formerly used for contractor equipment storage (the Contractor Area) and the western portion of Parcel A11 was formerly used as a spare parts storage yard (the Storage Yard). The majority of Sub-Parcel A11-2 is positioned within the former Storage Yard. According to the Description of Current Conditions (DCC) Report, prepared by Rust Environment and Infrastructure dated January 1998, several features of potential concern were historically located within the Contractor Area (all of which have been removed), including an



earthen oil pit, underground storage tanks (USTs), gas pumps and a pump island, unlabeled drums and containers with evidence of leaking and staining, and a small coal tar area. Numerous features at risk for leaks and releases (drums, tanks, fuel pumps, etc.) have been identified in specific contractor areas within various historical reports. Currently, the former Storage Yard is largely vacant with piles of stockpiled materials (soil and/or slag). Additional information regarding historical activities conducted within Parcel A11 can be found in the approved Phase II Investigation Work Plan dated May 18, 2016.



3.0 ENVIRONMENTAL SITE ASSESSMENT RESULTS

3.1 PHASE I ENVIRONMENTAL SITE ASSESSMENT RESULTS

A Phase I ESA was completed by Weaver Boos Consultants for the entire Sparrows Point property on May 19, 2014. Weaver Boos completed site visits of Sparrows Point from February 19 through 21, 2014, for the purpose of characterizing current conditions at the former steel plant. The Phase I ESA identified particular features across the Tradepoint Atlantic property which presented potential risks to the environment. These Recognized Environmental Conditions (RECs) included buildings and process areas where releases of hazardous substances and/or petroleum products potentially may have occurred. The Phase I ESA also relied upon findings identified during a previous visual site inspection (VSI) conducted as part of the RCRA Facility Assessment (RFA) prepared by A.T. Kearney, Inc. dated August 1993, for the purpose of identifying Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) on the property. This 1991 VSI is regularly cited in the Description of Current Conditions (DCC) Report prepared by Rust Environment and Infrastructure, dated January 1998 (included with Weaver Boos' Phase I ESA).

Weaver Boos' distinction of a REC or Non-REC was based upon the findings of the DCC Report (which was prepared when the features remained on-site in 1998) or on observations of the general area during their site visit. Weaver Boos made the determination to identify a feature as a REC based on historical information, observations during the site visit, and prior knowledge and experience with similar facilities. The following REC was identified in Sub-Parcel A11-2:

Contractor Equipment Storage (REC 16, Finding 256):

According to the Phase I ESA, a Contractor Area was located directly to the east of Greys Landfill within the boundary of Parcel A11. The Phase I ESA indicated that, based on the DCC Report and interviews with site personnel, this area was previously used as a storage area for contractor equipment, and may have been historically used to dispose of wastes of unknown types and quantities. Further action was recommended in this area due to the potential for surface and subsurface impacts as a result of the storage/dumping activities. Additional historical information regarding the Contractor Area is provided in Section 2.2.

Relevant SWMUs and AOCs were also identified from Figure 3-1 and Table 3-1 in the DCC Report. The DCC figure generally shows the SWMUs, AOCs, and main facility areas within the property boundaries. There were no AOCs identified at the Site, but there was one SWMU identified as the trash transfer station (SWMU 95) that was the only unit identified within the Site boundary. This unit was designated in the DCC Report as non-releasing.



3.2 PHASE II INVESTIGATIONS

3.2.1 Parcel A11 Phase II Investigation

A Phase II Investigation specific to soil conditions was performed for the Site in accordance with the requirements outlined in the ACO as further described in the Phase II Investigation Work Plan for Area A: Parcel A11 (Revision 1 dated May 18, 2016). Findings from the original Parcel A11 Phase II Investigation were presented within the Phase II Investigation Report (Revision 1 dated May 22, 2020), and the pertinent findings are summarized in this document.

The Phase II Investigation for soil conditions was developed to target specific features which represented a potential release of hazardous substances and/or petroleum products to the environment, including RECs, SWMUs, and AOCs (discussed above) as well as numerous other targets defined from former operations that would have the potential for environmental contamination. Soil samples were also collected at site-wide locations to ensure full coverage of the parcel. The Phase II Investigation for overall groundwater conditions included collection points distributed regularly throughout and along the perimeter of the Parcel A11 boundary.

A total of 143 soil samples (from 62 boring locations) and 11 shallow groundwater samples were collected for analysis between July 27, 2016 and March 8, 2017 as part of the Parcel A11 Phase II Investigation. Nine other groundwater wells (GL-02 (-5), GL-03 (-3), GL-08 (-3), GL-09 (-2), GL-11 (-1), GL-17 (-1), GL-18 (-3), GL-19, and TS-01 (-7)) are sampled semi-annually as part of the separate Greys Landfill groundwater monitoring, and relevant data collected from these sample locations were included within the Parcel A11 Phase II Investigation Report to supplement the overall groundwater characterization. The relevant soil and groundwater sample locations which provided pertinent data for discussion of the upcoming development of Sub-Parcel A11-2 are shown on **Figure 4** and **Figure 5**, respectively.

Soil and groundwater samples obtained from Parcel A11 were submitted to Pace Analytical Services, Inc. (PACE) and analyzed for the USEPA Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs) including polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH) diesel range organics (DRO) and gasoline range organics (GRO), Oil & Grease, USEPA Target Analyte List (TAL) Metals, hexavalent chromium, and cyanide based on the parcel-specific sampling plan. Shallow soil samples collected from 0 to 1 foot below ground surface (bgs) were also analyzed for polychlorinated biphenyls (PCBs). The relevant laboratory Certificates of Analysis (including Chains of Custody) and Data Validation Reports (DVRs) from the Phase II Investigation are included as electronic attachments.



3.2.2 Supplemental Delineation Investigation

During the Phase II Investigation, several soil samples were identified with elevated concentrations of SVOCs, particularly naphthalene. To supplement the original Phase II Investigation, a Work Plan for the delineation of naphthalene (and associated chemical constituents including benzene and benzo[a]pyrene) was submitted to the MDE and USEPA to facilitate additional soil and groundwater delineation sampling activities in Parcel A11. The scope of the supplemental investigation proposed within the Work Plan was later expanded from the original scope, and the findings were periodically reported to the MDE and USEPA. Pertinent findings from the supplemental sampling activities are summarized in this document.

A total of 293 soil samples (from 119 boring locations) and 21 shallow groundwater samples were collected for analysis between June 12, 2018 and August 23, 2018 as part of the supplemental delineation sampling activities. The relevant soil and groundwater sample locations which provided pertinent data for discussion of the upcoming development of Sub-Parcel A11-2 are shown on **Figure 6** and **Figure 7**, respectively. The samples from the original Phase II Investigation are also shown for reference.

Soil and groundwater samples obtained from the supplemental delineation activities were submitted to PACE and analyzed for the TCL-VOCs, PAHs, TPH-DRO/GRO, and Oil & Grease. The relevant laboratory Certificates of Analysis (including Chains of Custody) from the supplemental investigation are included as electronic attachments. These additional samples did not undergo the formal validation process, so DVRs are not provided.

3.2.3 Summary of Results

Soil and groundwater results relevant for the Sub-Parcel A11-2 development project were screened against the Project Action Limits (PALs) established in the property-wide Quality Assurance Project Plan (QAPP) dated April 5, 2016, or based on other direct agency guidance (e.g., TPH/Oil & Grease). The PALs for relevant PAHs have been adjusted based on revised toxicity data published by the USEPA. **Table 1** and **Table 2** provide a summary of the detected compounds (organics and inorganics) in the soil samples collected during both the original Phase II Investigation as well as during the supplemental delineation sampling. **Table 3** and **Table 4** provide a summary of the detected compounds (organics and inorganics) in the groundwater samples obtained during both investigations, including the most recent analytical data (December 2020) obtained from the relevant Greys Landfill groundwater monitoring wells.

The PAL exceedances in soil and groundwater are highlighted on the respective detection summary tables. PAL exceedances in soil included five inorganics (arsenic, manganese, thallium, vanadium, and lead), one VOC (benzene), eight SVOCs (benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, indeno[1,2,3-c,d]pyrene, and naphthalene), TPH-DRO/GRO, and Oil & Grease.



There were multiple locations within, or adjacent to, the proposed development LOD with soil exceedances of the TPH/Oil & Grease PAL (6,200 mg/kg) and/or potential indications of NAPL in the soil cores. Figure 8a (0 to 5 feet bgs) and Figure 8b (below 5 feet bgs) provide an overview of the distribution of NAPL observed in soil cores within the proposed LOD. Due to the known presence of NAPL, utility alignments and invert elevations must be considered with respect to these impacts prior to trenching.

PAL exceedances in groundwater included six total/dissolved metals (arsenic, cadmium, cobalt, iron, manganese, and thallium), 10 VOCs (1,1,2,2-tetrachloroethane, 1,1-dichloroethane, 1,2-dibromo-3-chloropropane, benzene, bromodichloromethane, carbon tetrachloride, chloroform, methylene chloride, toluene, and vinyl chloride), 12 SVOCs (1,4-dioxane, 2-methylnaphthalene, benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, dibenz[a,h]anthracene, indeno[1,2,3-c,d]pyrene, naphthalene, n-nitroso-di-n-propylamine, pyrene, and 3&4-methylphenol), TPH-DRO/GRO, and Oil & Grease. Refer to Figure 9 for a summary of groundwater PAL exceedances.

Although NAPL was observed within the soil cores at numerous locations, free-phase product has not been observed to accumulate in any of the NAPL screening piezometers (gauged at standard 0-hr, 48-hr, and 30-day intervals) or groundwater monitoring points (gauged prior to sampling) that are relevant for the proposed development project. A summary of the NAPL gauging status for wells and piezometers within or near the development LOD is provided as **Figure 10**, indicating that all NAPL screening piezometers had clean 30-day measurements (i.e., no detected presence of NAPL). At this time, all NAPL screening piezometers at the Site have been abandoned. Each piezometer was gauged a final time on the abandonment date in accordance with agency guidance, and NAPL was not detected at any location. For reference, shallow groundwater contours are shown in **Figure 11**.

3.2.4 **Delineation Thresholds**

Based on existing data obtained during the Parcel A11 Phase II Investigation and supplemental delineation sampling, there is a known potentially unacceptable risk for future Composite Worker occupants of the Site due to NAPL contamination and associated VOC and SVOC constituents, in particular elevated levels of benzene, benzo[a]pyrene, and naphthalene, which have been identified as the main constituents of potential concern (COPCs) at the Site. These constituents, along with other representative VOCs and SVOCs in Parcel A11, are provided in the table below along with concentrations corresponding to baseline carcinogenic risk screening levels of 1E-6 to 1E-4:



Davamatar	1E-6 (RSLs)	1E-5	1E-4
Parameter	(mg/kg)	(mg/kg)	(mg/kg)
Biphenyl	410	4,100	41,000
Benzene	5.10	51.0	510
Benz(a)anthracene	21.0	210	2,100
Benzo(a)pyrene	2.10	21.0	210
Benzo(b)fluoranthene	21.0	210	2,100
Dibenz(a,h)anthracene	2.10	21.0	210
Indeno(1,2,3-c,d)pyrene	21.0	210	2,100
Naphthalene	8.6	86	860

The concentrations associated with 1E-4 were considered to be the delineation thresholds for each individual compound during the preceding delineation activities. However, since the carcinogenic risk is cumulative for PAHs, the delineation thresholds for the three primary risk drivers were set at approximately 1/3 of the concentration corresponding to the risk level of 1E-4, as follows:

Delineation Thresholds		
Benzene 150		
Benzo(a)pyrene	75.0	
Naphthalene	275	

The soil data obtained during the original Phase II Investigation and the supplemental delineation sampling were compared to the listed delineation thresholds. If a soil sample contained a concentration of benzene, benzo[a]pyrene, or naphthalene above one of the specified delineation thresholds, the associated soil boring was flagged with elevated chemical data. Soil borings exhibiting these analytical exceedances were often co-located with observations of NAPL in the soil cores. Based on this screening approach, summaries of elevated soil conditions at the Site are presented in **Figure 8a** (0 to 5 feet bgs) and **Figure 8b** (below 5 feet bgs). As shown on the figures, there are two main areas which are potentially impacted by NAPL and/or associated elevated chemical data. One of these areas is positioned in the northwestern portion of the Site and is partially located below the future northern warehouse building footprint. The second area is located to the west of the southern warehouse, extending slightly below the building's footprint.

3.3 HUMAN HEALTH SCREENING LEVEL RISK ASSESSMENT

3.3.1 Analysis Process

A human health SLRA has been completed for the Composite Worker and Construction Worker scenarios based on the analytical data obtained from the characterization of surface and subsurface



soils in Sub-Parcel A11-2. Refer to **Table 1** for a Summary of Organics Detected in Soil, and to **Table 2** for a Summary of Inorganics Detected in Soil.

The SLRA included the following evaluation process:

Identification of Exposure Units (EUs): The SLRA was evaluated using a single sitewide EU with an area of 32.8 acres. The same EU and associated soil datasets were used for the evaluation of the Composite Worker and Construction Worker scenarios.

Identification of Constituents of Potential Concern (COPCs): For the project-specific SLRA, compounds that were present at concentrations at or above the USEPA Regional Screening Levels (RSLs) set at a target cancer risk of 1E-6 or target non-cancer Hazard Quotient (HQ) of 0.1 were identified as COPCs to be included in the SLRA. A COPC screening analysis is provided in **Table 6** to identify compounds above the relevant screening levels.

Exposure Point Concentrations (EPCs): The COPC soil datasets for the site-wide EU were divided into surface (0 to 2 foot), subsurface (>2 foot), and pooled depths for estimation of potential EPCs. Thus, there are three soil datasets associated with the site-wide EU. A statistical analysis was performed for each COPC dataset using the ProUCL software (version 5.1) developed by the USEPA to determine representative reasonable maximum exposure (RME) values for the EPC for each constituent. The RME value is typically the 95% Upper Confidence Limit (UCL) of the mean. For lead, the arithmetic mean for each depth was calculated for comparison to the Adult Lead Model (ALM)-based values, and any results above 10,000 mg/kg would be delineated for possible excavation and removal (not applicable at this Site). For PCBs, all results above 50 mg/kg would be delineated for excavation and removal (not applicable at this Site).

Risk Ratios: The surface soil EPCs, subsurface soil EPCs, and pooled soil EPCs were compared to the USEPA RSLs for the Composite Worker and to site-specific Soil Screening Levels (SSLs) for the Construction Worker based on equations derived in the USEPA Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (OSWER 9355.4-24, December 2002). Risk ratios were calculated with a cancer risk of 1E-6 and a non-cancer HQ of 1. The risk ratios for the carcinogens were summed to develop a screening level estimate of the baseline cumulative cancer risk. The risk ratios for the non-carcinogens were segregated and summed by target organ to develop a screening level estimate of the baseline cumulative non-cancer Hazard Index (HI).

For the Construction Worker, site-specific risk-based evaluations were completed for a range of potential exposure frequencies to determine the maximum exposure frequency for the site-wide EU that would result in risk ratios equivalent to a cumulative cancer risk of 1E-5 or HI of 1 for the individual target organs. This analysis indicated that there is no



allowable exposure frequency before additional worker protections or more detailed job safety evaluations would be required. This SLRA presents baseline Construction Worker risks for a 1-day exposure duration.

There is no potential for direct human exposure to groundwater for a Composite Worker since groundwater is not used on the TPA property (and is not proposed to be utilized). In the event that any future construction/excavation leads to a potential Construction Worker exposure to groundwater during development, health and safety plans and management procedures shall be followed to limit exposure risk.

Assessment of Lead: For lead, the arithmetic mean concentrations for surface soils, subsurface soils, and pooled soils for the site-wide EU were compared to the applicable RSL (800 mg/kg) as an initial screening. If the mean concentrations for the EU were below 800 mg/kg, the Site was identified as requiring no further action for lead. If a mean concentration exceeded the RSL, the mean values were compared to calculated ALM values (ALM Version dated 6/21/2009 updated with the 5/17/2017 OLEM Directive) with inputs of 1.8 for the geometric standard deviation and a blood baseline lead level of 0.6 ug/dL. The ALM calculation generates a soil lead concentration of 1,050 mg/kg, which is the most conservative (i.e., lowest) concentration which would yield a probability of 5% of a blood lead concentration of 5 ug/dL. If the arithmetic mean concentrations were below 1,050 mg/kg, the Site was identified as requiring no further action for lead. The average and maximum lead concentrations are presented for surface, subsurface, and pooled soils in **Table 7**. None of the average lead concentrations exceeded the initial screening threshold of 800 mg/kg, indicating no further action is needed with respect to lead.

Assessment of TPH/Oil & Grease: EPCs were not calculated for TPH/Oil & Grease. Instead, the individual soil results were compared to the TPH/Oil & Grease PAL set to a HQ of 1 (6,200 mg/kg). There were multiple soil boring locations within, or adjacent to, the proposed development boundary with soil exceedances of the TPH/Oil & Grease PAL and/or indications of NAPL in the soil cores. A comprehensive description of impacts is provided in Section 3.2, with analytical detection summary tables included as **Table 1** and **Table 2**. The summary **Figure 8a** (0 to 5 feet bgs) and **Figure 8b** (below 5 feet bgs) provide an overview of the distribution of NAPL impacts in soil at the Site.

Due to the known presence of NAPL, Section 5.1.2 specifies that utility alignments and invert elevations must be considered with respect to NAPL impacts prior to trenching. Soil screening will be especially important during any excavation of existing soil in areas impacted by NAPL. Section 5.1.2 includes contingency measures to ensure utilities will be constructed in a manner that will prevent the migration of any encountered NAPL, and that excavated materials will be properly managed.



Risk Characterization Approach: If the baseline risk ratio for each non-carcinogenic COPC or cumulative target organ does not exceed 1, and the sum of the risk ratios for the carcinogenic COPCs does not exceed a cumulative cancer risk of 1E-5, then a no further action determination will be recommended. If the baseline estimate of cumulative cancer risk exceeds 1E-5 but is less than or equal to 1E-4, then capping of the EU will be considered an acceptable remedy for the Composite Worker. The efficacy of capping for elevated non-cancer hazard will be evaluated in terms of the magnitude of exceedance and other factors such as bioavailability of the COPC. For the Construction Worker, cumulative cancer risks exceeding 1E-5 (but less than or equal to 1E-4) or HI values exceeding 1 will be mitigated via site-specific health and safety requirements.

The USEPA's acceptable risk range is between 1E-6 and 1E-4. If the sum of the risk ratios for carcinogens exceeds a cumulative cancer risk of 1E-4, further analysis of site conditions will be required including the consideration of toxicity reduction in any proposal for a remedy. The magnitude of any non-carcinogen HI exceedances and bioavailability of the COPC will also dictate further analysis of site conditions including consideration of toxicity reduction in any proposal for a remedy.

3.3.2 SLRA Results and Risk Characterization

Soil data were divided into three datasets (surface, subsurface, and pooled) for Sub-Parcel A11-2 to evaluate potential exposure scenarios. Each of these potential exposure scenarios is relevant for both the Composite Worker and Construction Worker.

EPCs were calculated for each soil dataset (i.e., surface, subsurface, and pooled depths) in the sitewide EU. ProUCL output tables (with computed UCLs) derived from the data for each COPC in soils are provided as electronic attachments, with computations presented and EPCs calculated for COPCs within each of the datasets. The ProUCL input tables are also included as electronic attachments. The results were evaluated to identify any samples that may require additional assessment or special management based on the risk characterization approach. The calculated EPCs for the surface, subsurface, and pooled exposure scenarios are provided in **Table 8**. These EPCs were used for both the Composite Worker and Construction Worker assessments.

As indicated above, the EPCs for lead are the average (i.e., arithmetic mean) values for each dataset. A lead evaluation spreadsheet, providing the computations to determine lead averages for each dataset, is also included as an electronic attachment. The screening criterion for lead was set at an arithmetic mean of 800 mg/kg based on the RSL, with a secondary limit of 1,050 mg/kg based on the May 2017 updated ALM developed by the USEPA (corresponding to a 5% probability of a blood lead level of 5 ug/dL). The average and maximum lead concentrations are presented for each dataset in **Table 7**, which indicates that neither surface, subsurface, nor pooled soils exceeded an average lead value of 800 mg/kg.



Composite Worker Assessment:

Risk ratios for the estimates of potential EPCs for the Composite Worker scenario for the site-wide EU are shown in **Table 9** (surface), **Table 10** (subsurface), and **Table 11** (pooled soils). The results are summarized as follows:

Worker Scenario	Exposure Unit	Medium	Hazard Index (>1)	Total Cancer Risk
		Surface Soil	Dermal = 2	3E-6
Composite Worker	Site-Wide EU (32.8 acres)	Subsurface Soil	Nervous = 5 Respiratory = 5	5E-4
		Pooled Soil	Nervous = 4 Respiratory = 4	4E-4

The non-carcinogenic HI values for the dermal, nervous, and respiratory systems exceeded 1 for multiple depth scenarios. The carcinogenic risk estimates for the Composite Worker subsurface and pooled exposure scenarios were greater than the acceptable risk level of 1E-5 and the secondary risk level of 1E-4. Cancer risk was primarily driven by the constituents benzo[a]pyrene and naphthalene while non-cancer hazard was primarily driven by naphthalene. Subsurface NAPL within the Site poses an unquantified risk to the potential future Composite Worker. Since potential exposure to NAPL cannot be quantified, it was not included in the risk assessment and the risks presented above may be biased low. Per the accepted Risk Characterization Approach (above) further analysis of site conditions was required including the consideration of toxicity reduction in any proposal for a remedy.

Construction Worker Assessment:

Construction Worker risks were evaluated for several different exposure scenarios to determine the maximum exposure frequency for the site-wide EU that would result in risk ratios equivalent to a cumulative cancer risk of 1E-5 or HI of 1 for any individual target organ. This analysis indicated that there is no allowable exposure frequency before additional worker protections would be required. This SLRA presents the baseline Construction Worker scenario for a 1-day exposure duration. Risk ratios for the Construction Worker scenario using the selected duration are shown in **Table 12** (surface), **Table 13** (subsurface), and **Table 14** (pooled). The variables entered for calculation of the site-specific Construction Worker SSLs (EU area, input assumptions, and exposure frequency) are indicated as notes on the tables. The spreadsheet used for computation of



the site-specific Construction Worker SSLs is included as **Appendix B**. The results are summarized as follows:

Worker Scenario	Exposure Unit	Medium	Hazard Index (>1)	Total Cancer Risk
		Surface Soil	none	3E-9
Construction Worker	Site-wide EU (32.8 acres)	Subsurface Soil	Nervous = 5 Respiratory = 5	9E-6
	(1 exposure day)	Pooled Soil	Nervous = 5 Respiratory = 5	7E-6

Using the minimum selected exposure duration of 1 day, the computed carcinogenic risks were less than 1E-5 for each depth scenario. However, the non-carcinogenic HI values for the nervous and respiratory systems exceeded 1 for the subsurface and pooled exposure scenarios. Additionally, subsurface NAPL within the Site poses an unquantified risk to the potential future Construction Worker. Since potential exposure to NAPL cannot be quantified, it was not included in the risk assessment and the risks presented above may be biased low. This evaluation indicates that additional site-specific health and safety requirements (beyond standard Level D protection) will be required for any future work within the site-wide EU regardless of the work duration.

Based on the findings of the Construction Worker SLRA, additional site-specific health and safety requirements will be required for any future work within the site-wide EU regardless of the work duration. There requirements will include:

- TPA will notify the MDE prior to the start of any future ground-intrusive work at the Site that is expected to breach the approved capping remedy (regardless of the work duration);
- Site-specific HASP which will be applied to all on-site OSHA HAZWOPER trained workers who may be engaged in ground intrusive construction work or activities which require contact with potentially impacted materials;
- Modified Level D PPE (coveralls, gloves, dust mask, etc.) for ALL ground intrusive activities to reduce ingestion and dermal exposures;
- OSHA HAZWOPER trained workers for ALL ground intrusive activities;



• Contingent air monitoring (in accordance with Section 7 of the property-wide TPA HASP) for ALL ground intrusive work at the site, to include an enhanced breathing space air monitoring program.

3.4 EVALUATION OF RCRA CRITERIA

Based on the results and conclusions of the site investigation activities and human health risk screening, this section presents a summary of the identification and evaluation of remedial alternatives for Sub-Parcel A11-2 in general accordance with USEPA guidance under RCRA. In particular, this section presents the establishment of media cleanup objectives, the identification and initial screening of remedial alternatives for meeting the cleanup objectives, a detailed evaluation of the final remedial alternatives based on the RCRA evaluation criteria, and a recommendation of the most appropriate remedial alternative based on the evaluation criteria.

3.4.1 Establishment of Media Cleanup Objectives

This section summarizes the cleanup objectives for Sub-Parcel A11-2 based on the results of the site investigation activities, plans for redevelopment of the Site, applicable environmental cleanup regulations, and an evaluation of potential risks to human health and the environment. In general, the cleanup objectives for Sub-Parcel A11-2 are to mitigate potential risks to future Composite Workers and Construction Workers associated with the identified NAPL contamination and associated VOC and SVOC constituents in soil and groundwater. These objectives are further discussed as follows:

- Potential future direct contact risks to NAPLs and contaminated soils should be mitigated through appropriate containment, treatment, and/or removal actions.
- Potential future inhalation risks from VOCs/SVOCs in soil, groundwater and NAPLs should be mitigated through appropriate containment, treatment, and/or removal actions.
- While there are no current or anticipated future exposure pathways to impacted groundwater (since groundwater is not used on the Tradepoint Atlantic property and is not proposed to be used), potential future exposures to contaminated groundwater should be mitigated through use restrictions or treatment. No additional remedial actions are proposed to mitigate the potential migration of NAPL or associated constituents in groundwater below the Site as part of this RADWP. If additional response actions are required to address the presence of NAPL in the subsurface either inside or outside Sub-Parcel A11-2, such measures will be proposed under separate Work Plan.

3.4.2 Identification of Remedial Alternatives

This section presents the identification of potential remedial alternatives to be evaluated against the threshold screening criteria (i.e., protection of human health and the environment; attainment



of media cleanup objectives; and controlling the sources). The potential remedial alternatives were developed based on the media clean-up objectives, communications with the MDE, and professional experience with the identification and screening of remedial alternatives, and consist of the following.

- <u>Alternative 1 No Action</u>: This alternative does not include the implementation of any remedial activities, and essentially represents leaving the Site in its existing condition. This alternative does not address the media cleanup objectives, but is presented as a baseline condition for comparison purposes.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL removal:</u> This alternative has been developed to meet the media cleanup objectives, and generally involves the following major activities: placement of a cap (concrete floor slab of building, asphalt pavement, and/or soil cap) above the areas of contamination; installation of a subslab vapor barrier and passive venting system; and hot-spot NAPL removal.
 - The planned cap will help reduce infiltration through the unsaturated zone, prevent direct contact exposures, and prevent the generation of dust;
 - The primary purpose of the proposed venting system is to prevent vapors from entering the building by venting those vapors to outside of the building structure. The venting system can be upgraded to an active venting and sub-slab depressurization system to restrict the migration of vapors into the proposed new buildings;
 - Impacted soil encountered during utility installation will be excavated and removed from the site. In addition, low permeability backfill and/or trench plugs will be utilized to prevent preferential contaminant migration along utilities that pass through the areas of contamination;
 - Hot Spot NAPL excavations to reduce risk. Each point shown on Figures 8a and 8b as having an exceedance of the delineation criteria was further evaluated. For screening purposes, the delineation criteria was calculated by dividing the EPA RSL concentration at 1E-4 by three (refer to Section 3.2.4) to account for the cumulative risk from benzene, benzo[a]pyrene, and naphthalene. Locations A11-024AA-SB and A11-024Y-SB were originally identified as locations above the 1E-4 delineation threshold based on the benzo[a]pyrene concentrations of 144 mg/kg and 95.8 mg/kg, respectively. However, due to the low levels of benzene and naphthalene in these locations, the actual risk at both locations is less than 1E-4; these locations were removed from consideration for hot spot excavations.



The remaining locations were further evaluated to determine whether the impacts were observed to be above or below the water table. An isopach map of the thickness of the unsaturated zone was created by subtracting the groundwater elevation shown on **Figure 11** from the ground surface elevation from the original topographic survey. This unsaturated zone thickness is shown on the attached **Figure 12**. The location of each exceedance was then plotted on this map and the depth of the samples exceeding the delineation criteria were posted and compared to the calculated thickness of the unsaturated zone thickness, that location. If the sample depth is less than the unsaturated zone thickness, that location would be identified as a soil hotspot that could be excavated above the saturated zone.

Based on this analysis, the following locations are proposed for hot spot excavation:

- A11-024B-SB
- A11-024CC-SB
- A11-024H-SB
- A11-024O-SB
- A11-024S-SB
- A11-024V-SB

The hotspot excavations will begin at each soil boring location noted above and proceed laterally and vertically (to a maximum depth of the water table) based on the presence of NAPL or the observation of sheen. Further details will be included in a separate Work Plan.

• Review of historical groundwater data indicates that concentrations of naphthalene and benzene have decreased with time in wells GL-03, GL-08 and LF-01 (all located either proximate to or downgradient of NAPL impacted soil), indicating a depletion of contaminant mass in the saturated zone and natural attenuation occurring within the groundwater. Refer to **Appendix K** for trend charts for benzene and naphthalene at these select wells.

An enhanced groundwater monitoring network will be installed to confirm that these trends of natural attenuation and contaminant mass reduction continue. This will include two additional monitoring wells to be installed along the northern subparcel boundary, which is downgradient of observed soil impacts (refer to **Figure 13**).

The proposed monitoring well network will also include installation of a 2" monitoring well in vicinity of 057 / O / S / V area to determine if recoverable NAPL is present in that area (refer to **Figure 13**). If measurable NAPL is detected post development, NAPL will be removed from monitoring wells via bailer, absorbent



socks, and/or EFR events, which will reduce the overall volume of NAPL in the subsurface.

- Long-term property use restrictions, inspection and maintenance of the cap and vapor barrier systems, and downgradient groundwater monitoring will be implemented to ensure that the controls remain effective.
- <u>Alternative 3 In-Situ Treatment by Chemical Stabilization</u>: This alternative represents one of a number of potential in-situ treatment alternatives for the identified contamination. In particular, this alternative would involve the in-situ treatment of the contamination through the injection of specialized chemical reagents using direct push technology or injection wells. The treatment works as a two-step process, generally consisting of permeability reduction followed by chemical weathering and NAPL encapsulation. The goal of the treatment would be to reduce contaminant concentrations to the point that no additional engineering controls or long-term monitoring would be required. Treatability studies would be required to confirm the effectiveness of the treatment and to refine the application rates and methods.
- <u>Alternative 4 Removal and Disposal</u>: This alternative has been developed for comparative purposes, and would involve the excavation and off-site disposal of all contaminated soils and NAPLs, above and below the water table. Excavated materials would have to be dewatered, loaded, and transported to an approved disposal facility. Non-hazardous materials could potentially be disposed of at Greys Landfill, and any materials that are determined to be RCRA-hazardous would require treatment and disposal at an approved off-site hazardous waste facility. The excavated area would be backfilled with acceptable fill to facilitate the planned redevelopment.

3.4.3 Initial Screening of Remedial Alternatives

This section presents an initial screening of the identified remedial alternatives against the threshold criteria (i.e., protection of human health and the environment; attainment of media cleanup objectives; and controlling the sources). The screening is summarized as follows:

• Protection of Human Health and the Environment: Alternative 1 (No Action) does not provide adequate protection of human health and the environment because it does not mitigate the identified risks or address the remedial objective. Alternatives 2 through 4 (In-Place Containment, In-Situ Treatment, and Removal and Disposal) have the potential to provide adequate protection of human health and the environment, although Alternative 3 (In-Situ Treatment) and particularly Alternative 4 (Removal and Disposal) have the potential to increase short-term exposure risks associated with waste treatment/handling.



- Attainment of Media Cleanup Objectives: Alternative 1 (No Action) would not meet any of the established media cleanup objectives, while Alternatives 2 through 4 (In-Place Containment, In-Situ Treatment, and Removal and Disposal) would address all of the established media cleanup objectives.
- Controlling the Sources: Historic sources of contamination to the area have previously been eliminated through the decommissioning and removal of the previous steel production operations at the Site. Alternative 1 (No Action) would not provide any additional control of the existing contaminants, although Alternatives 2 through 4 (In-Place Containment, In-Situ Treatment, and Removal and Disposal) would provide varying levels of control with respect to the risks posed by the current site conditions.

Based on this initial screening, Alternative 1 (No Action) does not meet the threshold screening criteria, but Alternatives 2 through 4 (In-Place Containment, In-Situ Treatment, and Removal and Disposal) would meet the threshold criteria and will be retained for detailed evaluation in the following section of this report. Even though the No Action Alternative does not meet the threshold criteria, it has also been retained for detailed evaluation in the following section of this report to provide a baseline condition for comparison purposes.

3.4.4 **Detailed Evaluation of Alternatives**

This section presents a detailed evaluation of the remedial alternatives that were identified and screened in the previous section. This detailed evaluation has been conducted with respect to the following evaluation/balancing criteria: long-term effectiveness; toxicity, mobility and volume reduction; short-term effectiveness; implementability; community acceptance; state acceptance; and cost. A summary of the detailed evaluation of alternatives is presented on **Table 5**.

3.4.4.1 Long-Term Effectiveness

This criterion refers to the expected effectiveness, reliability and risk of failure of the alternatives, including the effectiveness under analogous site conditions, the potential impact resulting from a failure of the alternative, and the projected useful life of the alternative.

- <u>Alternative 1 No Action</u>: This alternative is not effective in the long-term because it does not address the identified contamination or exposure pathways of concern.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL Removal</u>: The proposed capping and vapor control measures have been proven to be effective in the long-term at similar sites with similar conditions. Historical groundwater data indicates that concentrations of the naphthalene and benzene have decreased with time in local wells, suggesting a depletion of contaminant mass in the saturated zone and natural attenuation occurring within the groundwater. An enhanced groundwater monitoring network will



monitor and confirm these trends of natural attenuation and contaminant mass reduction. Property use restrictions, and continued inspections, maintenance, and monitoring will ensure the long-term effectiveness of this alternative.

- <u>Alternative 3 In-Situ Treatment by Chemical Stabilization</u>: The long-term effectiveness of this alternative is currently unknown and would have to be estimated from treatability studies and possibly additional sampling. The treatment measures have the potential to increase contaminant mobility in the long-term because of the required disturbance and chemical changes.
- <u>Alternative 4 Removal and Disposal</u>: This alternative provides long-term effectiveness through the removal and secure disposal of contaminated materials.

3.4.4.2 Reduction in Toxicity, Mobility, or Volume of Wastes

This criterion generally refers to how much the remedial alternatives will reduce the waste toxicity, mobility and/or volume, primarily through treatment.

- <u>Alternative 1 No Action</u>: This alternative does not provide any reduction in the toxicity, mobility, or volume of the contaminated materials.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL Removal</u>: This alternative provides reduction in toxicity, mobility, and volume. The hot spot excavation will remove the most impacted soil areas in the unsaturated zone, which will result in a reduction in toxicity, mobility, and volume, along with risk to receptors. Impacted soil encountered during installation of utilities will be excavated and removed from the site, further resulting reducing the mass of NAPL and contaminants in impacted soils. NAPL (if present) will also be removed from monitoring wells via bailer, absorbent socks, and/or EFR events, which will reduce the overall volume of NAPL in the subsurface.

The planned cap and vapor migration controls (such as the use of low permeability backfill and/or trench plugs) will help reduce potential contaminant mobility by reducing infiltration through the unsaturated zone, preventing migration along utility corridors, and preventing the generation of dust.

• <u>Alternative 3 – In-Situ Treatment by Chemical Stabilization</u>: This alternative has the potential to provide reduction in contaminant toxicity, mobility, and volume through treatment, but this would need to be confirmed through treatability studies, and in-situ treatment has the potential to increase contaminant mobility.



• <u>Alternative 4 – Removal and Disposal</u>: This alternative involves complete reduction in toxicity, mobility, and volume of the waste for the Site. The significant site disturbance associated with this alternative could increase contaminant mobility in the short term.

3.4.4.3 Short-Term Effectiveness

This criterion generally refers to potential short-term risks to on-site workers and the community in association with implementation of the remedial alternatives, such as might be associated with the excavation, handling, treatment, containment, and transportation of contaminated materials.

- <u>Alternative 1 No Action</u>: This alternative does not increase or decrease short-term exposure risks.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL Removal</u>: This cap and vapor barrier can be quickly implemented with minimal short-term exposure risks. The NAPL removal via hot spot excavations will increase short-term risks to onsite workers due to exposure to the contaminated soils. Any such short-term exposure risks would be mitigated through the implementation of site-specific health and safety controls to be executed by OSHA HAZWOPER trained workers.
- <u>Alternative 3 In-Situ Treatment by Chemical Stabilization</u>: This alternative would be expected to increase short-term exposure risks through the intrusive disturbance of contaminated materials and the handling of reactive chemicals.
- <u>Alternative 4 Removal and Disposal</u>: This alternative is expected to significantly increase short-term risks to on-site workers and the community because of the exposure, handling and transportation of a relatively large volume of waste.

3.4.4.4 Implementability

This criterion refers to the relative ease of alternative implementation (construction), including duration, administrative and technical feasibility, and availability of the required services and materials.

- <u>Alternative 1 No Action</u>: This alternative provides the greatest ease of implementation as no action is required; however, it is not expected to be implementable because it does not address the applicable environmental requirements.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL Removal</u>: This alternative can be quickly implemented with readily available, typically acceptable, and proven technologies.



- <u>Alternative 3 In-Situ Treatment by Chemical Stabilization</u>: This alternative presents implementation concerns because it requires specialized equipment and materials, and treatability studies would be required to confirm the technical feasibility.
- <u>Alternative 4 Removal and Disposal</u>: This alternative presents significant implementation concerns because of potential short-term exposure risks, required airemission and odor controls, the removal of materials from below the groundwater table, and the handling and transportation of a relatively large volume of waste materials.

3.4.4.5 Community Acceptance

This criterion refers to the known or anticipated community acceptance associated with the remedial alternatives.

- <u>Alternative 1 No Action</u>: This alternative is not expected to be favorable because it does not address the identified contamination or the remedial objectives.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL Removal</u>: This alternative is expected to be acceptable because it addresses the remedial objectives without increasing risks to the community.
- <u>Alternative 3 In-Situ Treatment by Chemical Stabilization</u>: This alternative is potentially acceptable depending on the results of treatability studies and other supplemental studies.
- <u>Alternative 4 Removal and Disposal</u>: This alternative is potentially acceptable, but the transportation of large volumes of waste through any community is generally not favorable, and fugitive emissions and odors are expected to be a potential concern.

3.4.4.6 State Acceptance

This criterion refers to how the remedial alternatives will comply with applicable environmental regulations (e.g., permit requirements).

- <u>Alternative 1 No Action</u>: This alternative is not expected to be acceptable because it does not meet the remedial action objectives.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL Removal</u>: This alternative is expected to be acceptable because it meets the remedial action objectives and can be implemented in a manner consistent with all anticipated regulatory and permitting requirements.
- <u>Alternative 3 In-Situ Treatment by Chemical Stabilization</u>: This alternative is potentially acceptable depending on the results of treatability and other supplemental studies.



• <u>Alternative 4 – Removal and Disposal</u>: This alternative is potentially acceptable and would likely not adversely impact any State permitting agencies.

3.4.4.7 Cost

This criterion addresses the anticipated short- and long-term costs associated with implementation of the remedial alternatives.

- <u>Alternative 1 No Action</u>: This alternative does not have any cost.
- <u>Alternative 2 In-Place Containment with Cap and Vapor Barrier, and NAPL Removal</u>: The estimated costs for implementation of this alternative (~\$2 million) are relatively low in both the short term and long term.
- <u>Alternative 3 In-Situ Treatment by Chemical Stabilization</u>: The costs for this alternative would depend on the results of treatability studies and subsequent designs, but preliminary estimates from vendor-supplied data and previous experience indicate an anticipated cost of at least \$7 million.
- <u>Alternative 4 Removal and Disposal</u>: The costs for this alternative would depend on the final volume of materials to be removed, the need for air-emission and other controls during excavation and handling, the amount of excavated material that could be characterized as RCRA-hazardous waste, and costs for off-site transportation, treatment, and disposal. Preliminary estimates based on previous experience with similar materials and typical waste transportation and disposal costs indicate anticipated costs of at least \$12 million.

3.4.5 Justification of Recommendation and Remedial Alternative

Based on the detailed evaluation of remedial alternatives as presented in the preceding section(s), <u>Alternative 2 – In-Place Containment with Cap and Vapor Barrier, with NAPL removal, is</u> <u>recommended for Sub-Parcel A11-2</u>. This alternative clearly satisfies the evaluation criteria better than the other potential alternatives and is an appropriate and favorable remedial alternative for the identified contamination. Supporting rational for selection of Alternative 2 – In-Place Containment with Cap and Vapor Barrier, with NAPL removal, is summarized below:

- it satisfies the threshold screening criteria;
- it best satisfies the detailed alternative evaluation criteria;
- it meets the media cleanup goals;
- it can be readily and quickly implemented with proven and reliable technologies;
- it is consistent and compatible with the proposed site development plans;
- it provides for long-term protection of human health and the environment; and



• it can be conducted in accordance with applicable regulations.

Based on the findings of the Composite Worker SLRA, and the detailed alternatives analysis presented in this RADWP, Alternative 2 – In-place Containment with Cap and Vapor Barrier, with NAPL removal and institutional controls, is recommended for Sub-Parcel A11-2. This is an acceptable remedy to be protective of future Composite Workers for the surface, subsurface, and pooled soils. The specific NAPL removal, capping requirements and institutional controls are specified in this RADWP.

Based on the findings of the Construction Worker SLRA, additional site-specific health and safety requirements will be required for any future work within the site-wide EU regardless of the work duration. There requirements will include:

- Site-specific HASP which will be applied to all on-site OSHA HAZWOPER trained workers who may be engaged in ground intrusive construction work or activities which require contact with potentially impacted materials;
- Modified Level D PPE (coveralls, gloves, dust mask, etc.) for ALL ground intrusive activities to reduce ingestion and dermal exposures;
- OSHA HAZWOPER trained workers for ALL ground intrusive activities;
- Contingent air monitoring (in accordance with Section 7 of the property-wide TPA HASP) for ALL ground intrusive work at the site, to include an enhanced breathing space air monitoring program.



4.0 PROPOSED SITE DEVELOPMENT PLAN

Tradepoint Atlantic is proposing to construct two logistics centers totaling approximately 476,200 square feet on Sub-Parcel A11-2. The proposed development will include permanent improvements on approximately 29.5 acres of land intended for occupancy within Parcel A11. The proposed future use of Sub-Parcel A11-2 is Tier 3 – Industrial. The remainder of Parcel A11 will be addressed in separate development plans in accordance with the requirements of the ACO that will include RADWPs, if necessary. Outside of the main development area, temporary construction zones with a total area of less than 4 acres will be utilized along the edges of the project area. The temporary work outside of the boundary of the Site is not intended to be the basis for the issuance of a NFA or a COC, although the scope of construction work is covered by this RADWP. The Site (29.5 acres encompassing Sub-Parcel A11-2; excluding the temporary construction zones) will be fully capped by surface engineering controls.

Certain compounds are present in the soils located near the surface and in the subsurface at concentrations in excess of the PALs. Therefore, soil is considered a potential media of concern. Potential risks/hazards exist for future adult Composite Workers based on existing impacts to soil including NAPL and chemical constituents exceeding the PALs. Surface engineering controls are required throughout the Site to be protective of future adult Composite Workers by preventing contact with potentially contaminated surface soil (or relocated subsurface soil) at the Site. Based on the existing conditions, the entire Site will be subject to surface engineering controls (i.e., capping). In addition, a sub-slab vapor barrier with a passive/active venting system will be installed below the future building footprints.

Construction Workers may contact impacted surface and/or subsurface soil during earth movement activities associated with construction, including within the temporary construction zones outside of the primary development area. All of the required ground intrusive construction work or activities which require contact with potentially impacted materials will be performed by OSHA HAZWOPER trained workers. The use of OSHA HAZWOPER trained workers will mitigate potential risks to Construction Workers by ensuring that the on-site work is performed by personnel who are trained and equipped for the conditions at the Site. The OSHA HAZWOPER trained workers will adhere to the PPE SOP provided as **Appendix C**. The modified Level D PPE requirements which will be applied during this project, including specific PPE details, planning, tracking/supervision, enforcement, and documentation, are outlined in the PPE SOP. The contractor will develop a site-specific HASP which will be applied to all on-site OSHA HAZWOPER trained workers who may be engaged in ground intrusive construction work or activities which require contact with potentially impacted materials. OSHA HAZWOPER trained workers will not be required during construction activities which do not have a significant exposure risk, such as above-grade building construction.



A restriction prohibiting the use of groundwater for any purpose at the Site will be included as an institutional control in the NFA and COC issued by the MDE, and a deed restriction prohibiting the use of groundwater will be filed. These groundwater use restrictions will protect future Composite Workers from potential exposures. Proper water management is required to prevent unacceptable discharges or risks to Construction Workers during development. Work practices and health and safety plans governing groundwater encountered during excavation activities will provide protection for (OSHA HAZWOPER trained) Construction Workers involved with development at the Site.

The development plan for the Site is indicated in **Figure 2**, and the development drawing provided by Morris & Ritchie Associates, Inc. (MRA) is included as **Appendix D**. The various types of surface engineering controls proposed to be installed on the Site (concrete, asphalt, and landscaping) are summarized on **Figure 14**. The process of constructing the proposed warehouse buildings and support facilities will involve the tasks identified below. As-built and regulatory documentation for the outlined tasks and procedures will be provided in a Sub-Parcel A11-2 Development Completion Report.

4.1 **Response Phase**

4.1.1 Groundwater Network Abandonments & Retention

All temporary groundwater sample collection points (piezometers) and NAPL screening piezometers within Parcel A11 have previously been abandoned.

A total of 14 permanent monitoring wells are located within, or very close to, the Sub-Parcel A11-2 LOD. These monitoring wells include GL-08 (-3), GL-08 (-36), GL-09 (-2), GL-09 (-20), LF-02, GL-03 (-3), GL-03 (-16), GL04-PZP001, GL04-PZM026, GL04-PZM046, GL-18 (-3), GL-18 (-33), LF-01, and LF-01D. These monitoring well locations are presented on Figure 15. Based on their location below buildings, GL-03 (-3) and GL-03 (-16) were abandoned in accordance with COMAR 26.04.04.34 through 36 prior to the Spring 2021 sampling event. Following the well abandonments, the MDE requested (via an email dated May 19, 2021) that existing shallow monitoring well LF-01 be sampled as part of the Greys Landfill (GLF) monitoring program as a substitute for GL-03 (-3), beginning in the Fall 2021. It was determined that LF-01 and GL-03 (-3) were in close proximity to each other and had similar screen intervals (LF-01 at 5-15 ft bgs and GL-03 (-3) at 7-17 ft bgs). In a subsequent email dated July 14, 2021, the MDE requested that an intermediate monitoring well be installed adjacent to LF-01 with a similar screen interval to the abandoned intermediate well GL-03 (-16). Following the completion of site development, an intermediate monitoring well will be installed adjacent to LF-01 (the proposed replacement location and approximate construction details will be provided to the MDE prior to installation) and will be incorporated into future GLF monitoring events. Installation details will be provided with the monitoring report following its installation.



Based on its location in a high traffic, LF-02 is proposed for abandonment in accordance with COMAR 26.04.04.34 through 36. Following the completion of site development, a shallow monitoring well will be installed in the vicinity of the former LF-02 location, but outside of high traffic areas. The proposed location and approximate construction details will be presented to the MDE for concurrence prior to installation, and the final location and well construction log will be provided to the MDE following completion. This shallow well will serve as a perimeter monitoring location once development work is complete on the parcel.

The abandonment of any permitted groundwater wells must be reported to the Water Management Administration as per COMAR 26.04.04, and records of all groundwater well and piezometer abandonments (including abandonment forms, if available) will be included in the Development Completion Report. It is understood that the agencies may require the installation of additional permanent monitoring wells in the future following site development.

The remainder of the existing monitoring wells in the Sub-Parcel A11-2 LOD will be retained during development. To ensure that the locations are not damaged/destroyed, these wells should be protected using sonotubes, flagging, and/or barriers as needed. Once the new capping surface (asphalt or landscape) has been placed surrounding each sonotube, the monitoring well will be completed with a well pad and manhole cover flush with the new surface.

4.1.2 Groundwater Remedies & Monitoring

There is no potential for direct exposure to groundwater for a Composite Worker since groundwater is not used on the Tradepoint Atlantic property (and is not proposed to be utilized); however, elevated levels of VOCs/SVOCs in groundwater in the vicinity of the Site could potentially cause an unacceptable VI condition for the proposed warehouse building without additional action. Elevated aqueous concentrations east of the development boundary may be indicative of past contaminant migration. However, the site investigation activities completed to date have indicated the absence of measurable NAPL; therefore, the NAPL does not appear to be highly mobile. Groundwater at the Site is being addressed via the following actions:

- <u>Capping Remedy with Groundwater Use Restrictions</u>: The capping remedy (i.e., surface engineering controls) and groundwater use restrictions will be installed at the Site to eliminate direct exposures to contaminants in groundwater. The capping remedy also reduces the potential for additional migration of contaminants into groundwater by reducing the influx of surface water through infiltration.
- <u>Vapor Barrier and Vapor Extraction System</u> A vapor barrier remedy will be installed to
 prevent exposures to organic vapors that have volatilized from groundwater (or NAPL) by
 preventing the migration of vapors through the floor slab and into the building. A
 passive/active venting system will be installed below the vapor barrier to extract soil vapors
 from beneath the proposed buildings.



- <u>NAPL Removal</u> Following development activities, one (or more) monitoring wells will be installed in areas with known NAPL impacts. NAPL gauging will be conducted initially on a monthly basis. If no NAPL is encountered after the first quarter of monitoring, the gauging will be reduced to quarterly. After the first year, or upon completion of the Sitewide Groundwater CMS, whichever is sooner, the gauging frequency will follow the Sitewide Groundwater CMS requirements. If NAPL is identified, then NAPL removal will be conducted via bailers, absorbent socks, and/or enhanced fluid recovery (EFR);
- <u>Groundwater Monitoring</u> Groundwater impacts below the Site will be addressed by a combination of the remedies listed above (capping, vapor barrier, and NAPL removal). To further evaluate groundwater and prevent potential exposures in other areas of the Tradepoint Atlantic property, downgradient monitoring wells were installed east of the Sub-Parcel A11-1 development area to monitor the potential migration of known contaminant plumes. The installation and sampling of the downgradient wells were discussed in the Parcel A11 Eastern Groundwater Delineation Monitoring Network Letter Report (dated March 5, 2020). Ultimately the monitoring wells will be incorporated into the property-wide groundwater monitoring program. It is understood that the agencies may require the installation of additional permanent monitoring wells in the future following site development on Sub-Parcel A11-2. Additional evaluations or response actions for the impacts downgradient from Sub-Parcel A11-1 (and Sub-Parcel A11-2) may be coordinated with the agencies beyond the scope of this RADWP.

4.2 **DEVELOPMENT PHASE**

4.2.1 Erosion and Sediment Control Installation

Installation of erosion and sediment controls will be completed in accordance with the requirements of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control prior to any construction at the Site. Any soils which are disturbed during the installation of erosion and sediment controls will be replaced on-site below the cap.

4.2.2 Hot Spot Soil Excavation

As discussed in Section 3.4.2, the following locations are proposed for hot spot excavation:

- A11-024B-SB
- A11-024CC-SB
- A11-024H-SB
- A11-024O-SB
- A11-024S-SB
- A11-024V-SB



This is based on soil locations with concentrations above the 1E-4 delineation thresholds (Sections 3.2.4) AND located within the unsaturated zone.

The hotspot excavations will begin at each soil boring location noted above and proceed laterally and vertically (to a maximum depth of the water table) based on the presence of NAPL or the observation of sheen. Further details will be included in a separate Work Plan.

4.2.3 Grading and Site Preparation

Grading activities including both cut and fill will occur within the Sub-Parcel A11-2 boundary. Any material that is not suitable for compaction will be excavated and replaced with subbase material, although it is not anticipated that poor soils will be encountered. Borrow materials will be obtained from MDE-approved sources and will be documented prior to transport to the Site. Processed slag aggregate sourced from the Tradepoint Atlantic property or other materials approved by the MDE for industrial use will be used as fill. Fill sources shall be free of organic material, frozen material, or other deleterious material. In the case that there is excess material (not anticipated), the spoils will be stockpiled at a suitable location in accordance with the Materials Management Plan (MMP) for the Sparrows Point Facility (Papadopulos & Associates, et al., June 17, 2015). This work will be coordinated with MDE accordingly. No excess material will leave the 3,100-acre property without prior approval from MDE.

4.2.4 Installation of Structures and Underground Utilities

The logistics center buildings, parking lots, and other infrastructure associated with the development of Sub-Parcel A11-2 will be installed as shown on the development plans in **Appendix D**. Excavated soil with elevated PID readings or other signs of contamination will be stockpiled separately and managed in accordance with the requirements outlined in Sections 5.1.3 and 5.1.4. Resulting analytical data will be submitted to the MDE to determine the suitability of the material for reuse. Excavated soils without elevated PID readings or other signs of contamination may be replaced on-site below the cap. All utility trenches will be backfilled with bedding and backfill approved by the MDE for industrial use (which may include utility trench spoils). Additional protocols for the installation of utilities at the Site are provided in Section 5.1.2.

4.2.5 Floor Slabs and Paving

Much of the Site will be covered with floor slabs or paving as indicated in the development plans provided in **Appendix D** and summarized on **Figure 14**. The paved areas will receive a layer of subbase material which will consist of compacted aggregate base, which may include processed slag aggregate sourced from the Tradepoint Atlantic property.

The required minimum thicknesses of all site-wide pavement sections which will serve as surface engineering controls are shown in the minimum capping section details provided in **Appendix E**.



According to the development plans, all paved areas at the Site will be installed with a minimum of 4 inches of compacted aggregate base and a minimum of 4 inches of overlying pavement surface (asphalt or concrete), which meet these required minimum thicknesses.

4.2.6 Sub-Slab Vapor Barrier with Passive/Active Venting System

As noted earlier, a sub-slab vapor barrier with a passive/active venting system (sub-slab depressurization system) will be installed below the concrete floor slab of both logistics centers to prevent the intrusion of VOC/SVOC vapors to indoor air. The installation of the vapor barrier and venting system will address the potential for unacceptable VI risks/hazards resulting from the known presence of VOCs/SVOCs and NAPL at the Site.

The venting system will initially be a passive system, with some negative pressure created below the floor slab (and vapor barrier) through a wind-blown turbine connected to the vent pipes. If indoor air concentrations are later determined to exceed health-based levels based on post-construction indoor air sampling, an electric fan or blower will be connected to the end of the venting system to increase the effectiveness. The venting systems will be constructed with solid-walled riser pipes within (or interior of) the building structure, extending above the roof line. The preliminary design of the sub-slab passive/active venting system is depicted on **Figure 16** and in **Appendix F**. Installation of the sub-slab system will consist of:

- A one-foot deep by one-foot-wide trench will be dug into existing materials. Two to three inches of 57 stone will be placed in the trench, followed by 4-inch perforated drainpipe. The remainder of the trench will be backfilled with 57 stone;
- Above the trench, approximately 12-inches of CALCIMENT[™] (a lime cement product) will be utilized to form a semi-rigid layer;
- Approximately four inches of granular aggregate base (GAB) will be placed above the CALCIMENTTM layer;
- Vapor barrier will be placed above the GAB;
- Approximately 7-inches of concrete to complete the system installation / cap.

Alternate system materials may be used in place of the specified materials if approved in advance by the MDE.

The vapor barrier (overlying the venting system) will consist of a Stego[®] Wrap (or equal) vapor barrier membrane that has been proven to be effective for similar applications. The barrier will be chemically resistant to the anticipated VOC vapors, and will be sealed at all penetrations, seams, and edges. The manufacturer's information and seaming details for Stego[®] Wrap vapor barrier are presented in **Appendix F**. Installation methods for the vapor barrier, including methods for ensuring the seams and penetrations are sealed properly are included in **Appendix F** (see "Installation Instructions"). The manufacturer's recommended methods for sealing any seams or surface penetrations generally include overlapping pieces of the Stego[®] Wrap and then sealing



with Stego[®] Tape or Stego[®] Mastic. Alternate vapor barrier materials may be used in place of the specified materials if approved in advance by the MDE.

The MDE must be notified at least four business days prior to the installation of the vapor barrier on-site. The installation of the vapor barrier will be performed by a trained construction crew. Daily oversight during installation will be provided by the Environmental Professional (EP) providing oversight on the project. Following installation of the vapor barrier, and prior to concrete placement, a smoke test will be performed to confirm that the barrier is properly sealed at all penetrations, seams, and edges. The MDE must be notified at least four business days prior to conducting the smoke test on-site.

A monitoring program has been developed to ensure sub-slab soil gas and indoor air are monitored following the installation of the vapor barrier and venting system. Details on the configuration of the sub-slab soil gas and indoor air monitoring points, installation specifications for the sub-slab monitoring points, sampling protocols and analyte list, and the proposed sampling schedule are included in the Sub-Slab Soil Gas & Indoor Air Monitoring Plan provided as **Appendix G**.

4.2.7 Landscaping

Much of the Site will be covered with landscaping caps as indicated in the development plans provided in **Appendix D** and summarized on **Figure 14**. The required minimum thicknesses of all site-wide landscaping sections which will serve as surface engineering controls are shown in the minimum capping section details provided in **Appendix E**. Landscaped areas at the Site will be installed with a minimum of 24 inches of VCP clean fill, with a geotextile marker fabric between the VCP clean fill and the existing underlying material. The proposed landscape sections for the Site meet the minimum capping requirements.

4.2.8 Stormwater Management

The proposed stormwater utility layout for the Site is provided on the development plan drawings in **Appendix D**. New stormwater infrastructure will be installed throughout the Site and will connect to existing subgrade stormwater utilities.

Tradepoint Atlantic is working with the MDE Industrial & General Permits Division to renew the property-wide National Pollutant Discharge Elimination System (NPDES) permit. The proposed stormwater management systems for each parcel are reviewed and approved by Baltimore County for each individual development project.



Tradepoint Atlantic

5.0 DEVELOPMENT IMPLEMENTATION PROTOCOLS

5.1 DEVELOPMENT PHASE

This plan presents protocols for the handling of soils and fill materials in association with the development of Sub-Parcel A11-2. In particular, this plan highlights the minimum standards for construction practices and managing potentially contaminated materials to reduce potential risks to workers and the environment.

Exceedances of the PALs were identified in soil samples across the Site. The PALs are set based on USEPA's RSLs for industrial soils, or other direct guidance from the MDE. Because PAL exceedances can present potential risks to human health and the environment at certain concentrations, this plan presents material management and other protocols to be followed during the work to adequately mitigate such potential risks for material remaining on-site during the development phase. There were multiple locations within, or adjacent to, the proposed development LOD with soil exceedances of the TPH/Oil & Grease PAL (6,200 mg/kg) and/or potential indications of NAPL in the soil cores. **Figure 8a** and **Figure 8b** provide an overview of the distribution of the NAPL and associated elevated chemical impacts in soil. Due to the known presence of NAPL, utility alignments and invert elevations must be considered with respect to these impacts prior to trenching. Soil screening will be especially important during any excavation of existing soil in these areas.

Construction Workers may contact impacted surface and/or subsurface soil during earth movement activities associated with construction, including within the temporary construction zones outside of the primary development area. All of the required ground intrusive construction work or activities which require contact with potentially impacted materials will be performed by OSHA HAZWOPER trained workers. The use of OSHA HAZWOPER trained workers will mitigate potential risks to Construction Workers by ensuring that the on-site work is performed by personnel who are trained and equipped for the conditions at the Site. The OSHA HAZWOPER trained workers will adhere to the PPE SOP provided as **Appendix C**. The modified Level D PPE requirements which will be applied during this project, including specific PPE details, planning, tracking/supervision, enforcement, and documentation, are outlined in the PPE SOP. The contractor will develop a site-specific HASP which will be applied to all on-site OSHA HAZWOPER trained workers who may be engaged in ground intrusive construction work or activities which require contact with potentially impacted materials. OSHA HAZWOPER trained workers will not be required during construction activities which do not have a significant exposure risk, such as above-grade building construction.

Based on the characterization of surface and subsurface soils, surface engineering controls are an acceptable remedy to be protective of future adult Composite Workers who otherwise could potentially contact surface soil (or relocated subsurface soil) at the Site. The proposed capping



sections will meet the required minimum thicknesses for surface engineering controls, which are provided in **Appendix E**. The potential for unacceptable VI risks/hazards resulting from the known presence of VOCs/SVOCs and NAPL will require the installation of a vapor barrier (with an underlying passive/active venting system) to mitigate the potential for intrusion of contaminant vapors into the logistics center.

5.1.1 Erosion/Sediment Control

Erosion and sediment controls will be installed prior to commencing work in accordance with the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control. The erosion and sediment controls will be approved by the MDE. In addition, the following measures will be taken to prevent contaminated soil from exiting the Site:

- Stabilized construction entrance will be placed at site entrance.
- A dry street sweeper will be used as necessary on adjacent roads, and the swept dust will be collected and properly managed.
- Accumulated sediment removed from silt fence, and sediment traps if applicable, shall be periodically removed and returned to the Site.

5.1.2 Soil Excavation and Utility Trenching

A pre-excavation meeting shall be held to address proper operating procedures for working on-site and monitoring excavations and utility trenching in potentially contaminated material. This meeting shall include the construction manager and the EP providing oversight on the project. During the meeting, the construction manager and the EP shall review the proposed excavation/trenching locations and any associated utility inverts. The construction manager will be responsible for conveying all relevant information regarding excavation/grading and/or utility work to the workers who will be involved with these activities. Evidence of NAPL has been observed in multiple areas within the development LOD based on prior investigations (see attached summary **Figure 8a** and **Figure 8b**). The Utility Excavation NAPL Contingency Plan (discussed below) must also be reviewed during the pre-excavation meeting. The HASP and PPE SOP for the project shall also be reviewed and discussed.

The EP will provide oversight of soil excavation/trenching activities as described in Section 5.6. Soil excavation/trenching will occur during various phases of construction. In general, and based on the existing sampling information, all excavated materials are expected to be suitable for replacement on the Site below surface engineering controls. However, the EP will monitor the soil excavation activities for signs of significantly contaminated material which may not be suitable for reuse (as described below). The EP will also be responsible for monitoring organic vapor concentrations in the worker breathing zone within utility trenches and excavations (as further described in Section 5.3).



To the extent practical, all excavation activities should be conducted in a manner to minimize double or extra handling of materials. Any stockpiles shall be kept within the Site footprint, and in a location that is not subjected to concentrated stormwater runoff. Stockpiles shall be managed as necessary to prevent the erosion and off-site migration of stockpiled materials, and in accordance with the applicable provisions of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control. Soil designated for replacement on-site which does not otherwise exhibit evidence of contamination (as determined by the EP) may be managed in large stockpiles (no size restriction) as long as they remain within the erosion and sediment controls.

All utility trenches will be backfilled with bedding and backfill materials approved by the MDE for industrial use. A general utility cross section is provided as **Appendix H**. Additional preventative measures will be required if evidence of petroleum contamination is encountered, to prevent the discharge to, or migration of, petroleum product along a utility conduit. Contingency measures have been developed to ensure that utilities will be constructed in a manner that will prevent the migration of any encountered NAPL, and that excavated material will be properly managed. The Utility Excavation NAPL Contingency Plan (**Appendix I**) provides protocols to be followed if NAPL is encountered during the construction activities. Preventative measures to inhibit the spread of petroleum product will be conducted in accordance with this plan.

All utility corridors which pass through areas containing elevated chemical impacts and that have the potential to preferentially transmit contaminated vapors or groundwater along the utility line shall be plugged using 1) low permeability backfill material; or 2) trench plugs in accordance with the details shown on the utility trench plug detail within the Utility Excavation NAPL Contingency Plan. **Figure 17** highlights areas which have already been identified with NAPL or elevated VOC/SVOC impacts in soil or groundwater based on prior investigations. Mitigative measures (i.e., low permeability backfill and/or trench plugs) will be required in these areas; an approximately 25-foot buffer was added surrounding the known impacts to conservatively define the area where mitigative measures shall be implemented to prevent potential migration. Low permeability backfill is defined as material with a permeability less than the permeability of the existing subgrade. The use of trench fill material with a permeability less than the surrounding subgrade will prevent the creation of a preferential flow conduit along the trench. Geotechnical testing data for any proposed low permeability backfill will be submitted to the MDE for approval prior to placement of the selected material along utility corridors.

The EP will monitor all soil excavation and utility trenching activities for signs of potential contamination. In particular, soils will be monitored with a hand-held PID for potential VOCs, and will also be visually inspected for the presence of staining, petroleum waste materials, or other indications of significant contamination. If screening of excavated materials by the EP indicates the presence of conditions of potential concern (i.e., sustained PID readings greater than 10 ppm, visual staining, unsuitable waste materials, etc.), such materials shall be segregated for additional sampling and special management.



Excavated material exhibiting evidence of significant contamination shall be placed in stockpiles (not to exceed 500 cubic yards) on polyethylene sheeting and covered with polyethylene sheeting to minimize potential exposures and erosion when not in use. Materials stockpiled due to evidence of contamination will be sampled in accordance with waste disposal requirements and transported to an appropriate permitted disposal facility. Plans for analysis of segregated soils for any use other than disposal must be submitted to the MDE for approval.

Excavated material that is visibly impacted by NAPL will be segregated and managed in accordance with the requirements specified in the Utility Excavation NAPL Contingency Plan. Excavated material with indications of possible NAPL contamination will also be containerized or placed in a stockpile (not to exceed 500 cubic yards) on polyethylene sheeting and covered with polyethylene sheeting until the material can be analyzed for TPH/Oil & Grease and PCBs (total) to characterize the material for appropriate disposal. The MDE will be notified if such materials are encountered during excavation or utility trenching activities.

5.1.3 Soil Sampling and Disposal

Excavated materials that are determined by the EP to warrant sampling and analysis because of elevated PID readings or other indications of potential contamination shall be sampled and analyzed to determine how the materials should be managed. If excavated and stockpiled, such materials should be covered with a polyethylene tarp to minimize potential exposures and erosion. All stockpiled soil may be considered for use as fill at this Site or on other areas of the property depending on the analytical results. A sampling Work Plan including a description of the material, estimated volume, and sampling parameters will be submitted to the MDE for approval. The resulting analytical data will be submitted to the MDE to determine the suitability of the material for reuse. If the MDE determines that the materials are unsuitable for reuse, the materials will be sampled to determine if they are classified as hazardous waste.

Soil material that is determined to be a hazardous waste shall be shipped off-site in accordance with applicable regulations to an appropriate and permitted RCRA disposal facility. Soil material may be taken to an appropriate non-hazardous landfill (including Greys Landfill) for proper disposal if the concentrations of excavated sampled materials indicate that the materials are not hazardous, but still are not suitable for reuse. The quantities of all materials that require disposal, if any, will be recorded and identified in the Development Completion Report.

5.1.4 Fill

Processed slag aggregate sourced from the Tradepoint Atlantic property will be used as the primary fill material for this project. The processed slag aggregate will be placed below the surface engineering controls (i.e., caps) installed across the Site. Soil excavated on the sub-parcel has been determined to be suitable for re-use at the Site below the surface engineering controls, unless such



materials are determined by the EP/MDE to be unsuitable for use as outlined in Section 5.1.2 and Section 5.1.3.

All utility trenches will be backfilled with bedding and backfill approved by the MDE for industrial use (which may include utility trench spoils). As with structural fill, processed slag aggregate and other materials approved for industrial use can be used as backfill in utility trenches if the area will be covered by a VCP cap. Any utility backfill which will extend into the cap (i.e., top 2 feet of backfill in landscaped areas) must meet the VCP clean fill requirements, and a geotextile marker fabric will be placed between the VCP clean fill and any underlying material. Materials placed in areas outside of the Site boundary (i.e., within the temporary construction zones outside of Sub-Parcel A11-2) must meet the VCP clean fill requirements, or be otherwise approved by the MDE prior to placement. A general utility detail drawing is provided as **Appendix H**. Material imported to the Site will be screened according to MDE guidance for suitability.

All utility corridors which pass through areas containing NAPL or elevated chemical impacts and that have the potential to preferentially transmit contaminated vapors or groundwater along the utility line (as defined on **Figure 17**) shall be plugged using 1) low permeability backfill material (less than or equal to the permeability of the existing subgrade); or 2) trench plugs in accordance with the details shown in the Utility Excavation NAPL Contingency Plan (**Appendix I**).

5.1.5 **Dust Control**

General construction operations, including soil excavation and transport, and trenching for utilities will be performed at the Site. These activities are anticipated to be performed in areas of soil impacted with COPCs. Best management practices should be undertaken at the Sparrows Point property as a whole to prevent the generation of dust which could impact other areas of the property outside of the immediate work zone. To limit worker exposure to contaminants borne on dust and windblown particulates, dust monitoring will be performed in the immediate work zone and at the upwind and downwind perimeter of the Site, and dust control measures will be implemented if warranted based on the monitoring results. The action level proposed for the purpose of determining the need for dust suppression techniques (e.g. watering and/or misting) during the development activities at the Site will be 3.0 mg/m³. The lowest of the site-specific dust action levels, OSHA PELs, and ACGIH TLV was selected as the proposed action level.

The EP will be responsible for the dust monitoring program. Air monitoring will be performed using Met One Instruments, Inc. E-Sampler dust monitors or equivalent real-time air monitoring devices. The EP will set-up dust monitoring equipment at the outset of ground intrusive work or other dust-generating activities, and continuous dust monitoring will be performed during this work. In addition to work area monitoring, a dust monitor will be placed at selected perimeter locations that will correspond to the upwind and downwind boundaries based on the prevailing wind direction predicted for that day. The prevailing wind direction will be assessed during the



day, and the positions of the perimeter monitors will be adjusted if there is a substantial shift in the prevailing wind direction.

Once all dust-generating activities are complete (which may occur at a later stage of the project once ground intrusive work has been completed or after the Site has been capped), the dust monitoring program may be discontinued. If additional dust-generating activities commence, additional dust monitoring activities will be performed.

If sustained dust concentrations exceed the action level (3.0 mg/m³) at any of the monitoring locations as a result of conditions occurring at the Site, operations will be stopped temporarily until dust suppression can be implemented. Operations may be resumed once monitoring indicates that dust concentrations are below the action level. The background dust concentration will be utilized to evaluate whether Site activities are the source of the action level exceedance. The background dust concentration will be based on measurements over a minimum of a 1-hour period at the upwind Site boundary. The upwind data will be used to calculate a time weighted average background dust concentration. As noted above, the locations of the perimeter dust monitors may be adjusted periodically if there is a substantial shift in the prevailing wind direction.

As applicable, air monitoring will be conducted during development implementation activities to assess levels of exposure to Site workers, establish that the work zone designations are valid, and verify that respiratory protection being worn by personnel, if needed, is adequate. Concurrent with the work zone air monitoring, perimeter air monitoring will also be performed at the upwind and downwind Site boundaries to ensure contaminants are not migrating off-site. The concentration measured at the downwind perimeter shall not exceed the action level of 3.0 mg/m³, unless caused by background dust from upwind of the Site. If exceedances of the action level are identified downwind for more than five minutes, the background dust concentration shall be evaluated to determine whether the action level exceedances are attributable to Site conditions. If on-site activities are the source of the exceedances, dust control measures and additional monitoring will be implemented. The dust suppression measures may include wetting or misting using a hose connected to a water supply or a water truck stationed at the Site.

Dust control measures will be implemented as described above to address dust generated as a result of construction activities conducted at the Site. However, based on the nature of the area and/or ongoing activities surrounding the Site, it is possible that windblown particulates may come from surrounding areas. As discussed above, the dust concentration in the upwind portion of the Site will be considered when monitoring dust levels in the work area. A pre-construction meeting will be held to discuss the potential of windblown particulates from other activities impacting the air monitoring required for this RADWP. Site contact information will be provided to address the possibility of upwind dust impacts. If sustained dust is observed above the action level (3.0 mg/m³) and it is believed to originate from off-site (i.e., upwind) sources, this will immediately be reported to the MDE-VCP project team, as well as the MDE Air and Radiation Administration (ARA).



5.2 WATER MANAGEMENT

This plan presents the protocols for handling any groundwater or surface water that needs to be removed to facilitate construction of the proposed Sub-Parcel A11-2 development.

5.2.1 Groundwater PAL Exceedances

The shallow groundwater wells and temporary groundwater sample collection points which were sampled within and surrounding the development LOD during the Parcel A11 Phase II Investigation and supplemental sampling activities are shown on **Figure 5** and **Figure 7**. Aqueous PAL exceedances in shallow groundwater in the vicinity of the development LOD included both inorganic and organic compounds, including several elevated detections of VOCs and SVOCs. The aqueous PAL exceedances from the shallow hydrogeologic zone are provided in the detection summary tables (**Table 3** and **Table 4**). While the concentrations of PAL exceedances are not deemed to be a significant human health hazard for future Composite Workers since there is no on-site groundwater use which could lead to direct exposures (and indirect exposures will be mitigated via the installation of the sub-slab vapor barrier and passive/active venting system), proper water management is required during construction to prevent unacceptable discharges or risks to Construction Workers.

5.2.2 Dewatering

Dewatering may be necessary during the installation of underground utilities and within excavations/trenches due to intrusion of groundwater, stormwater, and/or dust control waters. **Figure 11** displays the shallow groundwater elevations underlying the Site based on prior investigation data. If dewatering is required, it shall be done in accordance with all local, state, and federal regulations.

Tradepoint Atlantic is coordinating with Baltimore County to determine if dewatering fluids may be discharged into the county sanitary sewer system through their Industrial Wastewater Discharge program. If pursued, Tradepoint Atlantic will apply for a temporary Industrial Wastewater Discharge Permit for the development activities from Baltimore County and will abide by all requirements of the permit. Discharge into the county sanitary sewer system may be utilized with or without pre-treatment based on the requirements of the county's temporary Industrial Wastewater Discharge Permit. Based on its location on the property, discharge into the county sanitary sewer system is the preferred disposal method for dewatering fluids.

If Tradepoint Atlantic determines it is infeasible to discharge dewatering fluids into the county sanitary sewer system, dewatering fluids may be transported to the Humphrey Creek Wastewater Treatment Plant (HCWWTP), in which case the water will be treated and discharged in accordance with NPDES Permit No. 90-DP-0064A; I. Special Conditions; A.4; Effluent Limitations and Monitoring Requirements. Water in the Tin Mill Canal (TMC) flows into the HCWWTP for final treatment before being discharged into Bear Creek. If the HCWWTP is selected as the disposal



location, dewatering fluids will be tested pursuant to the protocol submitted within the HCWWTP Constituent Threshold Limits for Dewatering Activities related to Remediation, Development, and Capping Letter dated March 3, 2021. If the groundwater does not meet the constituent threshold limits specified in the protocol, the groundwater will be pre-treated. Due to the conditions identified in the area, additional test pitting will be performed (above the density specified in the protocol), in order to demonstrate compliance with the HCWWTP constituent thresholds. A sampling plan will be provided to the MDE prior to this sampling. If required the groundwater will be pre-treated, periodically tested, transported, and discharged per the following procedure:

A conceptual flow diagram showing the treatment system is provided as **Appendix J**. Accumulated dewatering fluids will be pumped into an inlet collection tank. The collection tank will be a frac tank which will provide settling time for solids. The water will then be pumped through bag filters and granular activated carbon (GAC) vessels. Following this pre-treatment, the water will be either: 1) discharged to the TMC through a newly constructed conveyance pipe, or 2) trucked directly to the HCWWTP for final treatment.

Samples will be collected at the inlet after the filter bags (influent), between the first and second GAC vessels (midfluent), and after the last GAC vessel (effluent). The pre-treated water will be tested upon startup and then weekly thereafter for VOCs and SVOCs until the completion of the water treatment portion of the Sub-Parcel A11-2 project. Breakthrough of organic contaminants through the GAC vessels is not anticipated. Early detection of potential breakthrough will be achieved via the weekly midfluent VOC and SVOC samples. Note that additional analyses could be required if warranted based on field observations by the EP. In such case, the analyses run will be dependent on the suspected source of contamination and local site conditions.

The results of the analyses will be reviewed by the HCWWTP operator to determine if any wastewater treatment system adjustments are necessary. If the results of the analyses are above the listed threshold levels, the water will be further evaluated to confirm acceptable treatment at the HCWWTP, or will be evaluated to design an additional pre-treatment option. Alternatively, the water may be disposed of at an appropriate off-site facility.

<u>Analysis</u>	Threshold Levels
Total metals by USEPA Method 6020A	1,000 ppm
PCBs by USEPA Method 8082	>Non-Detect
SVOCs by USEPA Method 8270C	1 ppm
VOCs by USEPA Method 8260B	1 ppm
Oil & Grease by USEPA Method 1664	200 ppm
TPH-DRO by USEPA Method 8015B	200 ppm
TPH-GRO by USEPA Method 8015B	200 ppm



The final selected disposal option will be provided to the MDE prior to initiation of dewatering activities for this Sub-Parcel A11-2 development project. If future adjustments to the dewatering plan are proposed, these will be submitted to the MDE for review prior to implementation. Monthly progress reports will be submitted to the agencies with data from disposal water sampling. Quarterly Progress Reports will also be submitted for Sub-Parcel A11-2 consistent with other development projects on the property. TPA is currently in the process of coordinating with Baltimore County to potentially convey water directly to the County POTW. If this alternative for disposal is selected, TPA will provide confirmation of Baltimore County's approval to dispose of groundwater to the County POTW prior to completing this work. Documentation of the above outlined water testing, as well as the selected disposal option, will also be reported to the agencies in the Development Completion Report. Any permits or permit modifications related to dewatering will be provided to the agencies as addenda to this RADWP.

5.3 HEALTH AND SAFETY

Since the project is expected to encounter soil that is impacted with elevated levels of COPCs, in particular elevated VOCs/SVOCs and NAPL, all of the required ground intrusive construction work or activities which require contact with potentially impacted materials will be performed by OSHA HAZWOPER trained workers. The use of OSHA HAZWOPER trained workers will mitigate potential risks to Construction Workers by ensuring that the on-site work is performed by personnel who are trained and equipped for the conditions at the Site. The contractor providing the OSHA HAZWOPER trained workers will develop a site-specific HASP which will be applied to all on-site workers who may be engaged in the above-referenced activities. The HASP will specify workspace monitoring, Action Levels, and the appropriate PPE for worker health and safety protection for the project. At a minimum, the OSHA HAZWOPER trained workers will adhere to the modified Level D PPE requirements provided as **Appendix C**.

A Site Safety Officer must be designated within the contractor's HASP. A copy of the HASP will be maintained on-site and will be made available to the EP. The EP will be responsible for monitoring organic vapor concentrations in the worker breathing zone within the trenches and will coordinate with the designated Site Safety Officer (provided by the contractor) to determine whether any increased level of health and safety protection (including engineering controls and/or PPE) is required. The designated Site Safety Officer will be responsible for ensuring compliance with the requirements of the HASP, and for enforcing these requirements.

Prior to commencing work, the contractor must conduct an on-site safety meeting for all personnel. All personnel must be made aware of the HASP and the PPE SOP. Detailed safety information shall be provided to personnel who may be exposed to COPCs. Workers will be responsible for following established safety procedures to prevent contact with potentially contaminated material. The EP may elect to adopt the contractor's HASP, or can prepare their own site-specific HASP.



OSHA HAZWOPER trained workers will not be required during construction activities which do not have a significant exposure risk, such as above-grade building construction.

5.4 INSTITUTIONAL CONTROLS (FUTURE LAND USE CONTROLS)

Long-term conditions related to future use of the Site will be placed on the RADWP approval, NFA, and COC. These conditions are anticipated to include the following:

- A restriction prohibiting the use of groundwater for any purpose at the Site and a requirement to characterize, containerize, and properly dispose of groundwater in the event of deep excavations encountering groundwater. The entire Tradepoint Atlantic property will be subject to the groundwater use restriction.
- Notice to the MDE at least 30 days prior to any future soil disturbances that are expected to breach the approved capping remedy (i.e., through the pavement cap or marker fabric in landscaped areas).
- Notice to the USEPA at least 30 days prior to any future soil disturbances that are expected to breach the approved capping remedy, only if the contractor will not use the modified Level D PPE specified in the approved SOP.
- Requirement for a HASP in the event of any future excavations at the Site.
- Complete appropriate characterization and disposal of any material excavated at the Site in accordance with applicable local, state and federal requirements.
- Requirement to further evaluate vapor control measures if another enclosed structure is proposed in the future on the Site.
- Implementation of inspection procedures and maintenance of the containment remedies.

The responsible party will file the above deed restrictions as defined by the MDE-VCP in the NFA and COC. The Tenant will be required to sign onto the Environmental Covenant with restriction in the NFA. Tradepoint Atlantic will notify the Tenant of this requirement and will provide MDE with contact information for the Tenant prior to issuance of the NFA.

5.5 POST REMEDIATION REQUIREMENTS

Post remediation requirements will include compliance with the conditions specified in the NFA, COC, and the deed restrictions recorded for the Site. Deed restrictions will be recorded within 30 days after receipt of the final NFA. In addition, the MDE and USEPA will be provided with a written notice of any future excavations (as applicable) in accordance with the requirements given in Section 5.4. Written notice of planned excavation activities will include the proposed date(s) for the excavation, location of the excavation, health and safety protocols (as required), clean fill source (as required), and proposed characterization and disposal requirements.



Additional requirements will include inspection procedures and maintenance of the containment remedies to minimize degradation which could lead to future exposures. An Operations and Maintenance Plan (O&M Plan) will be submitted in the future for MDE approval. This O&M Plan will include long-term inspection and maintenance requirements for the capped areas of the Site as well as the vapor barrier. The responsible party will perform cap/barrier inspections, perform maintenance of the cap/barrier, and retain inspection records, as required by the O&M Plan. The O&M Plan must include specific requirements for the repair of any future penetrations of the vapor barrier below the floor slab.

The responsible party will also perform indoor air and/or sub-slab soil gas sampling. A sampling program has been developed to ensure sub-slab soil gas and indoor air are monitored following the installation of the vapor barrier and venting system. Details on the configuration of the sub-slab soil gas and indoor air monitoring points, installation specifications for the sub-slab monitoring points, sampling protocols and analyte list, and the proposed sampling schedule are included in the Sub-Slab Soil Gas & Indoor Air Monitoring Plan provided as **Appendix G**.

The two buildings proposed on Sub-Parcel A11-2 may have separate tenants; therefore, occupancy requirements for each building may be implemented on separate schedules. If construction on one of the two buildings and associated capped areas is largely complete, this area will be segregated from remaining active construction areas through the use of temporary fencing. The pre-occupancy indoor air and/or sub-slab soil gas sampling noted above for the two buildings will be completed based on the proposed occupancy schedule for each building.

5.6 CONSTRUCTION OVERSIGHT

Construction Oversight by an EP will ensure and document that the project is built as designed and appropriate environmental and safety protocols are followed. Upon completion, the EP will certify that the project is constructed in accordance with this RADWP.

The EP will monitor all soil excavation and utility trenching activities for signs of contamination that may indicate materials that are not suitable for reuse. In particular, soils will be monitored with a hand-held PID for potential VOCs, and will also be visually inspected for staining, petroleum waste materials, or other indications of significant contamination. If screening of excavated materials by the EP indicates the presence of conditions of potential concern (i.e., sustained PID readings greater than 10 ppm, visual staining, unsuitable waste materials, etc.), such materials shall be segregated for additional sampling and special management (as described in Section 5.1.2; Soil Excavation and Utility Trenching). The EP will also perform routine periodic breathing zone monitoring and PPE spot checks during ground intrusive activities. The EP will also inspect any water that collects in the excavations/trenches on an as-needed basis to coordinate appropriate sampling prior to disposal (as described in Section 5.2.2; Dewatering).



Daily inspections, as necessary, will be performed during general site grading and cap construction activities. The EP will verify that the vapor barrier is installed in accordance with the manufacturer's specifications and any seams or penetrations are sealed properly (as described in Section 4.2.5; Sub-Slab Vapor Barrier with Passive/Active Venting System), appropriate fill materials are being used (as described in Section 5.1.4; Fill), dust monitoring and control measures are being implemented as appropriate (as described in Section 5.1.5; Dust Control), the requirements of the HASP and the PPE SOP are being enforced by the designated Site Safety Officer (as described in Section 5.3; Health and Safety), and surface engineering controls are being installed with the appropriate thicknesses (shown in the attachments). Oversight by an EP will not be required during construction activities which do not have a significant environmental component, such as above-grade building construction.

Records shall be provided by the EP to document:

- Compliance with soil screening requirements
- Proper water management, including documentation of testing and water disposal
- Observations of construction activities during site grading and cap construction
- Proper construction of sub-slab vapor barrier
- Proper cap thickness and construction



6.0 PERMITS, NOTIFICATIONS AND CONTINGENCIES

The participant and their contractors will comply with all local, state, and federal laws and regulations by obtaining any necessary approvals and permits to conduct the activities contained herein. Any permits or permit modifications from State or local authorities will be provided as addenda to this RADWP.

A grading permit is required if the proposed grading disturbs over 5,000 square feet of surface area or over 100 cubic yards of earth. A grading permit is required for any grading activities in any watercourse, floodplain, wetland area, buffers (stream and within 100 feet of tidal water), habitat protection areas or forest buffer areas (includes forest conservation areas). Erosion and Sediment Control Plans will be submitted to, and approved by, the MDE prior to initiation of land disturbance for development.

TPA will notify the MDE prior to the start of any future ground-intrusive work at the Site that is expected to breach the approved capping remedy (regardless of the work duration). Based on the findings of the Construction Worker SLRA, additional site-specific health and safety requirements will be required for any future work within the site-wide EU regardless of the work duration. There requirements will include:

- Site-specific HASP which will be applied to all on-site OSHA HAZWOPER trained workers who may be engaged in ground intrusive construction work or activities which require contact with potentially impacted materials;
- Modified Level D PPE (coveralls, gloves, dust mask, etc.) for ALL ground intrusive activities to reduce ingestion and dermal exposures;
- OSHA HAZWOPER trained workers for ALL ground intrusive activities;
- Contingent air monitoring (in accordance with Section 7 of the property-wide TPA HASP) for ALL ground intrusive work at the site, to include an enhanced breathing space air monitoring program. Action levels and response actions for oxygen and organic vapor concentrations are presented in Section 7. The results of the breathing space air monitoring will determine whether any increased level of health and safety protection (including engineering controls and/or additional PPE) is required.

Contingency measures will include the following:

1. The MDE will be notified immediately of any previously undiscovered contamination, previously undiscovered storage tanks and other oil-related issues, and citations from regulatory entities related to health and safety practices.



- 2. Any significant change to the implementation schedule will be noted in the progress reports to MDE.
- 3. Modified Level D PPE will be used for the entire scope of ground intrusive work covered by this RADWP as a protective measure to ensure that there are no unacceptable exposures for Construction Workers during project implementation. The modified Level D PPE requirements which will be applied during this project are outlined in the PPE SOP provided as **Appendix C**. If it is not possible to implement the PPE SOP as provided, the agencies will be notified and a RADWP Addendum will be submitted to detail any appropriate mitigative measures.



7.0 IMPLEMENTATION SCHEDULE

Progress reports will be submitted to the MDE on a quarterly basis. Each quarterly progress report will include, at a minimum, a discussion of the following information regarding tasks completed during the specified quarter:

- Development Progress
- Dust Monitoring
- Water Management
- Soil Management (imported materials, screening, stockpiling)
- Soil Sampling and Disposal
- Notable Occurrences (if applicable)
- Additional Associated Work (if applicable)

The proposed implementation schedule is shown below:

Task	Proposed Completion Date
Anticipated RADWP Approval	July 2022
Groundwater Network Abandonments	July 2022
Installation of Erosion and Sediment Controls	Complete
Slag (or Alternative Fill) Delivery and Placement	June 2022
Site Preparation/Grading – Building Pad & Parking	June 2022/December 2022
Utility Installations	July 2022
Construction of Building	July 2022 (start)
Installation of Pavements	September 2022 (start)
Pre-Occupancy Sub-Slab Soil Gas Monitoring	Dependent on occupancy schedule
Submittal of Development Completion Report/ Notice of Completion of Remedial Actions*	March 2023
Post-Occupancy Indoor Air & Sub-Slab Soil Gas Monitoring	Dependent on occupancy schedule



Tradepoint Atlantic

Request for NFA from the MDE

Recordation of institutional controls in the land records office of Baltimore County

Submit proof of recordation with Baltimore County

April 2023

Within 30 days of receiving the approval of NFA from the MDE

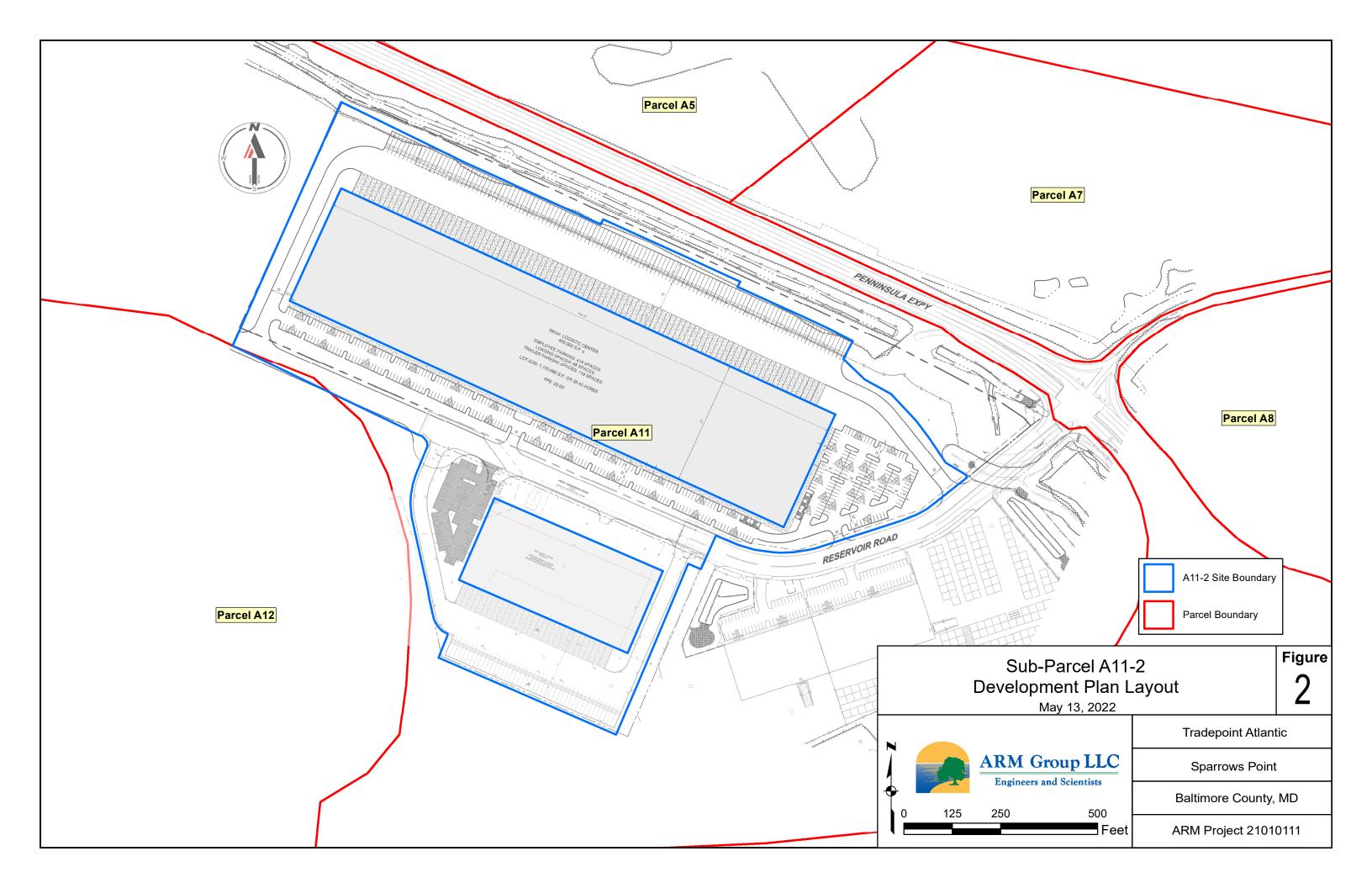
Upon receipt from Baltimore County

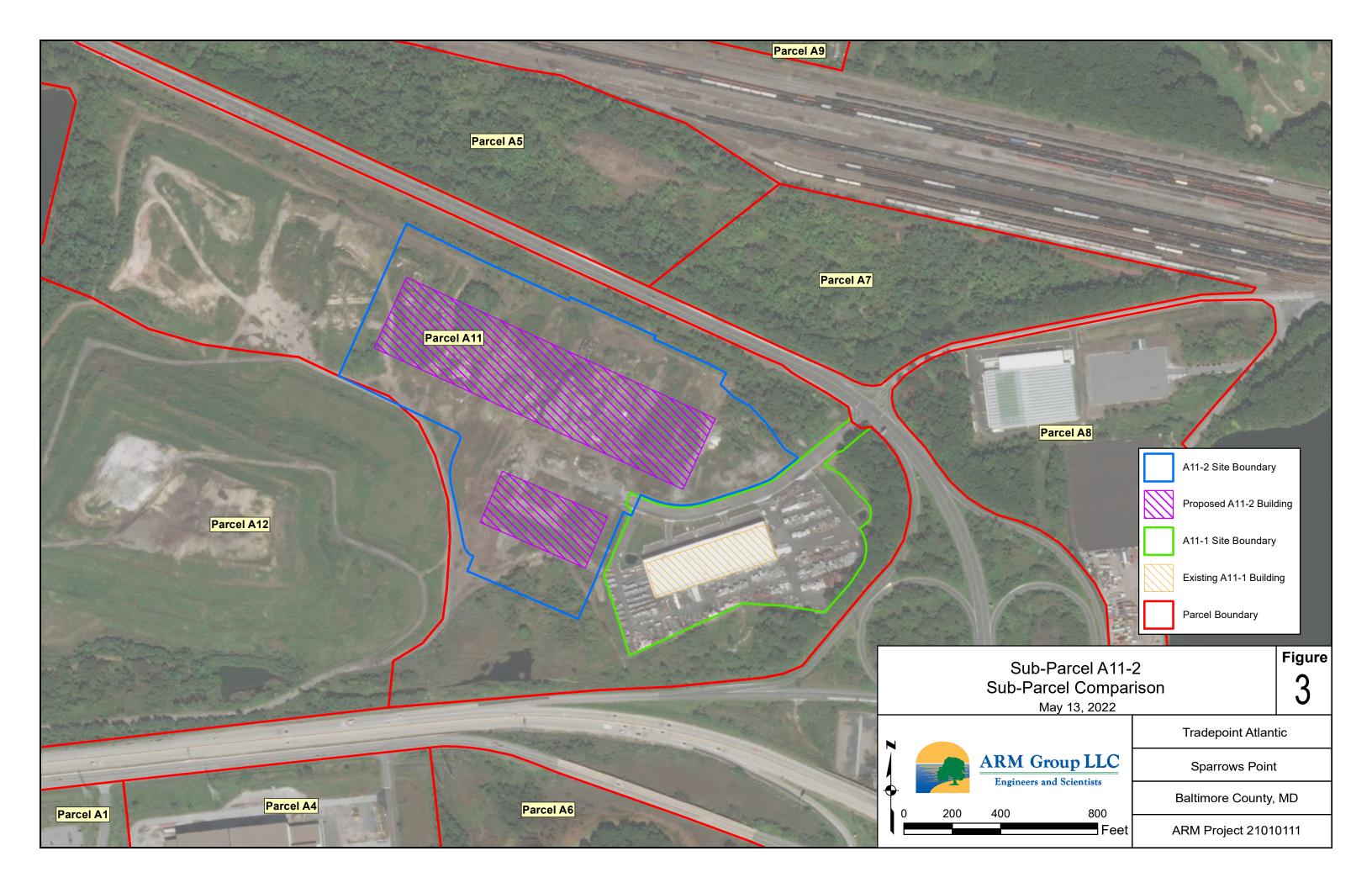
*Notice of Completion of Remedial Actions will be prepared by Professional Engineer registered in Maryland and submitted with the Development Completion Report to certify that the work is consistent with the requirements of this RADWP and the Site is suitable for occupancy and use.

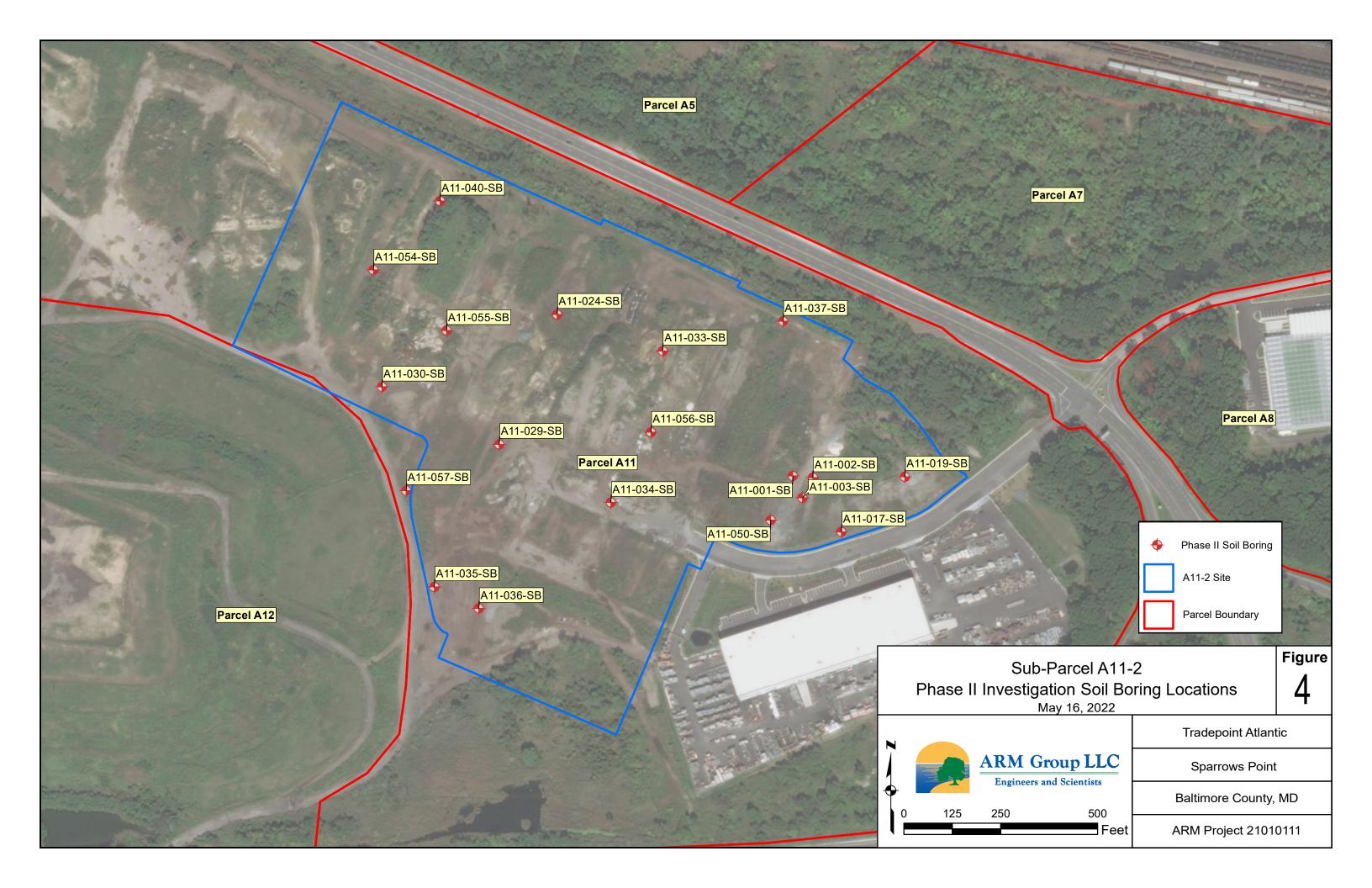


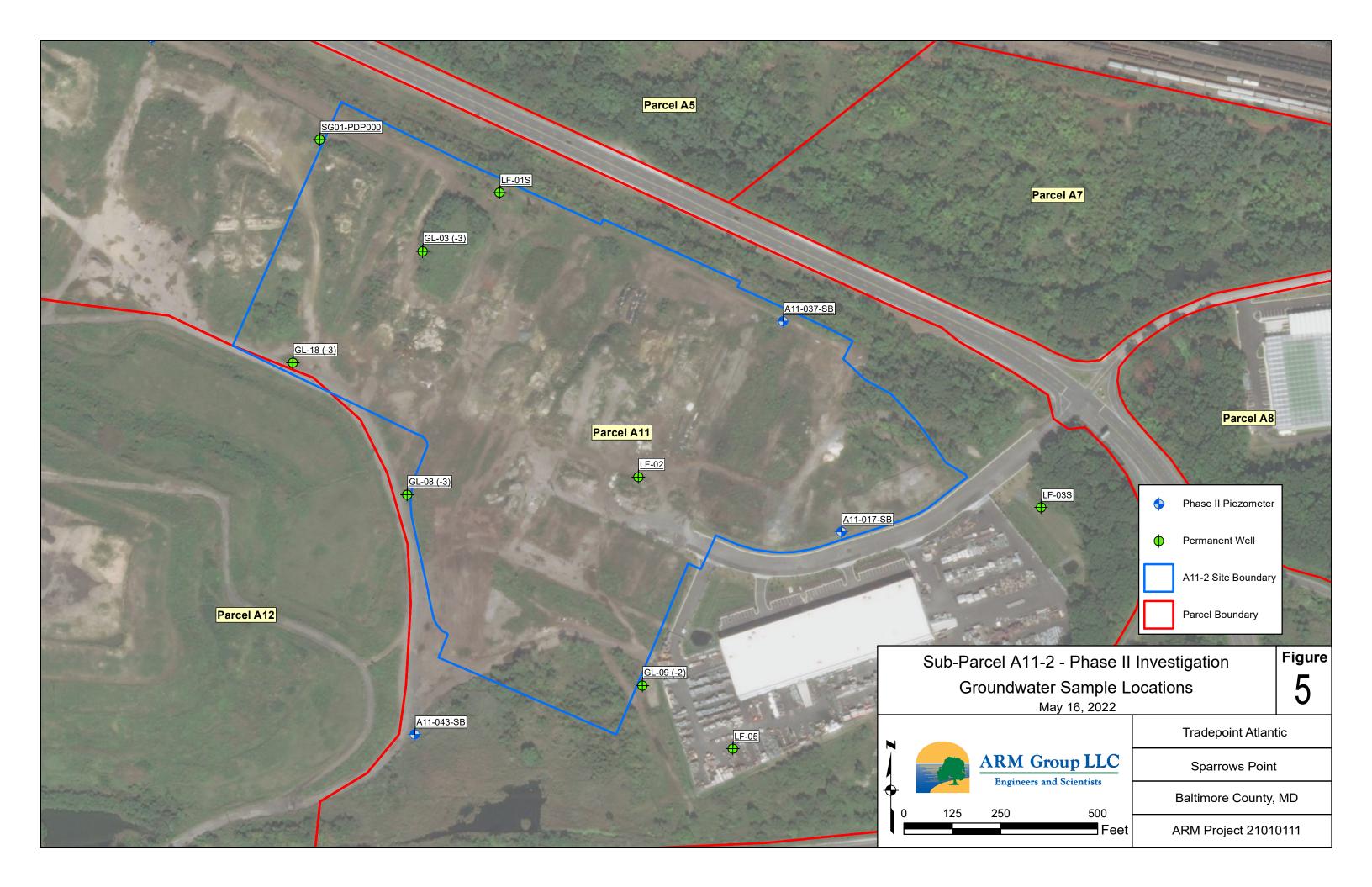
FIGURES

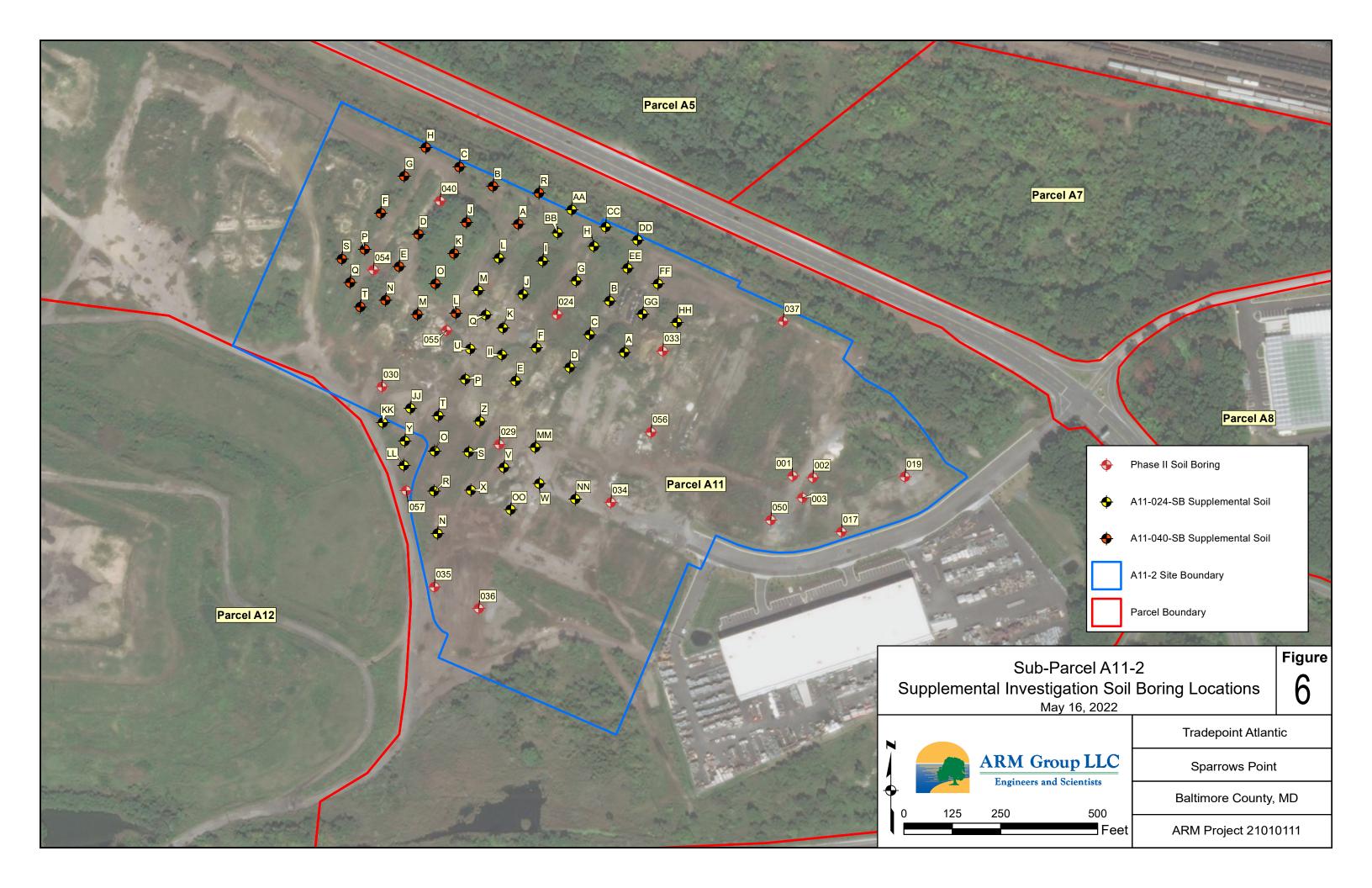






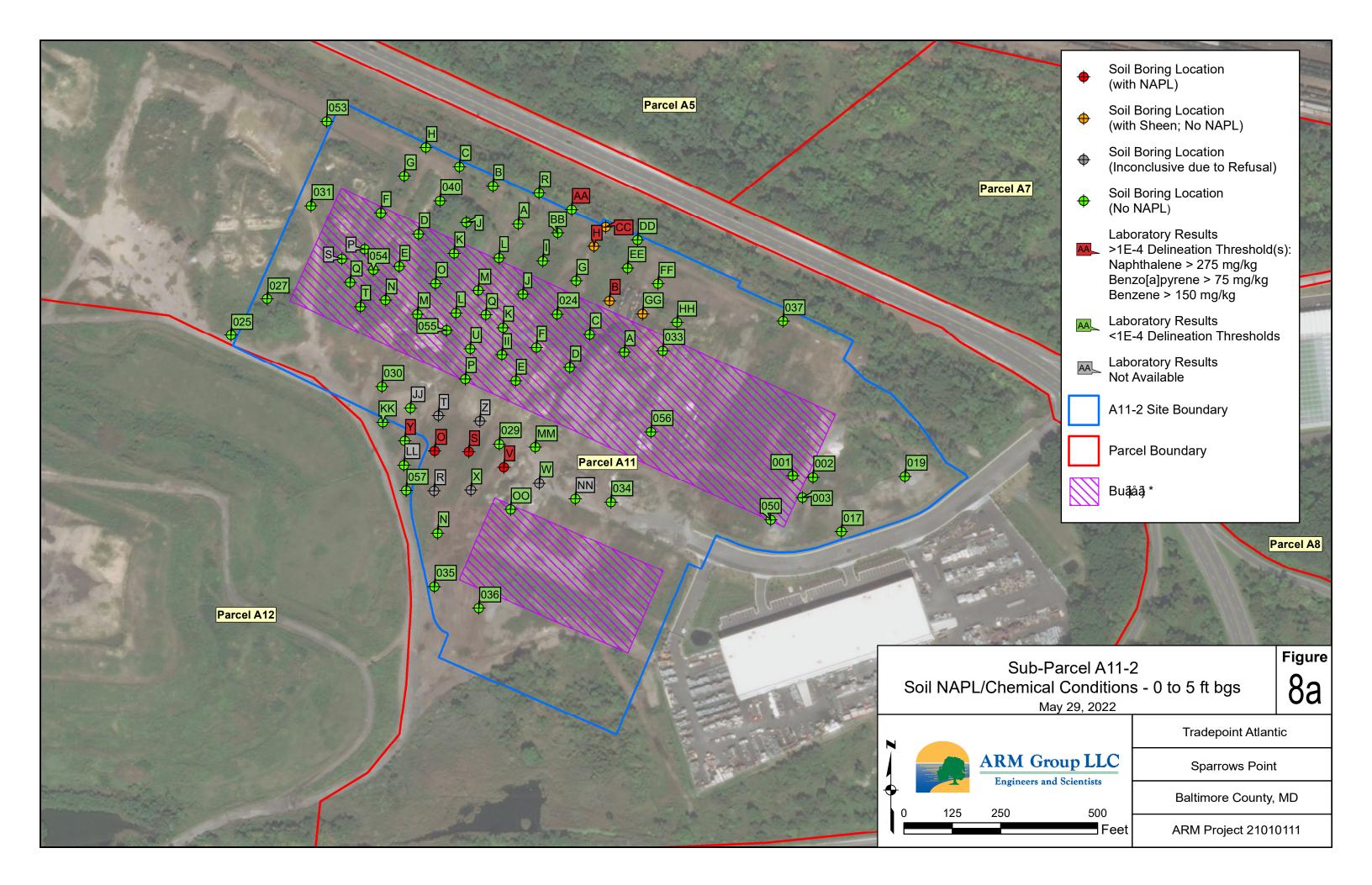


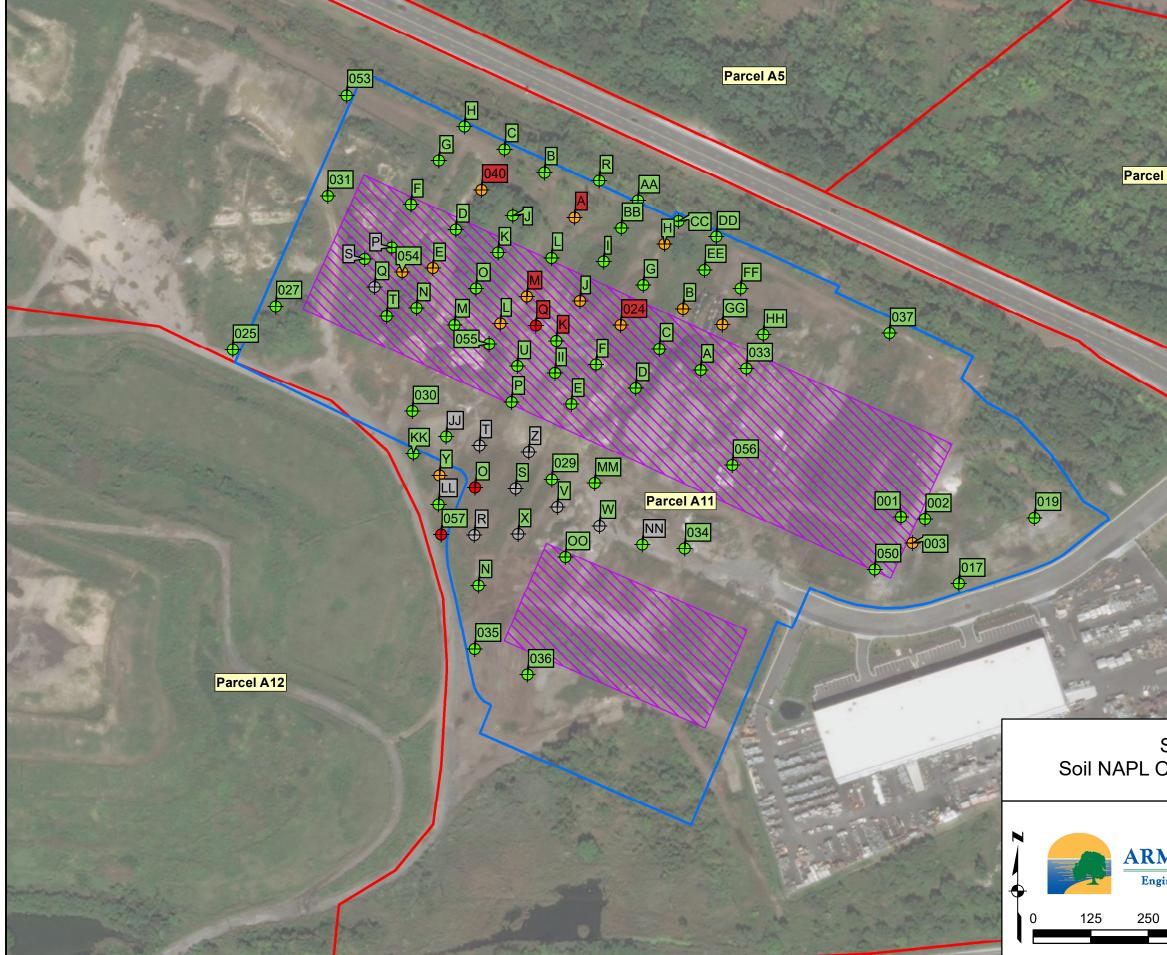




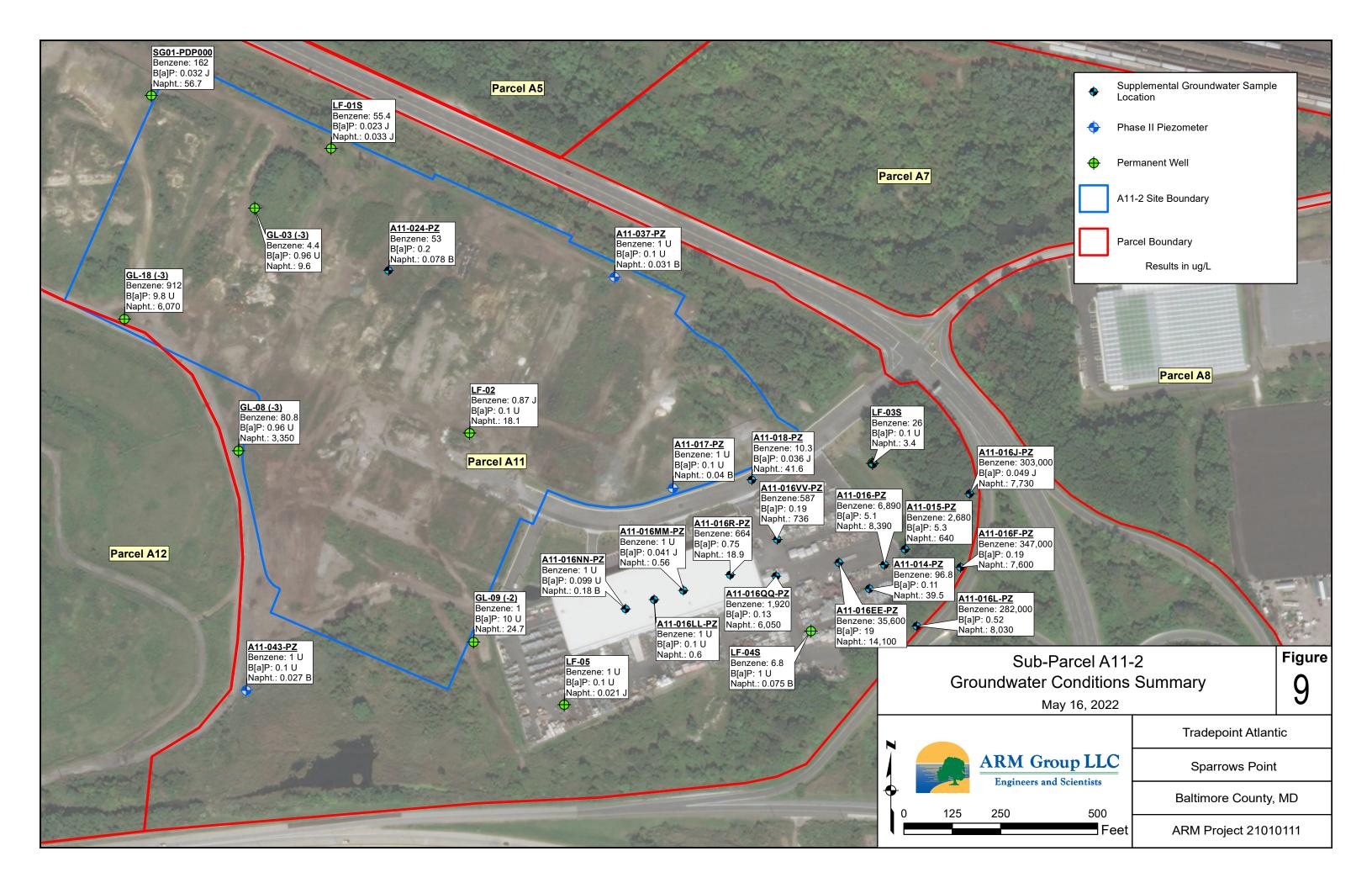


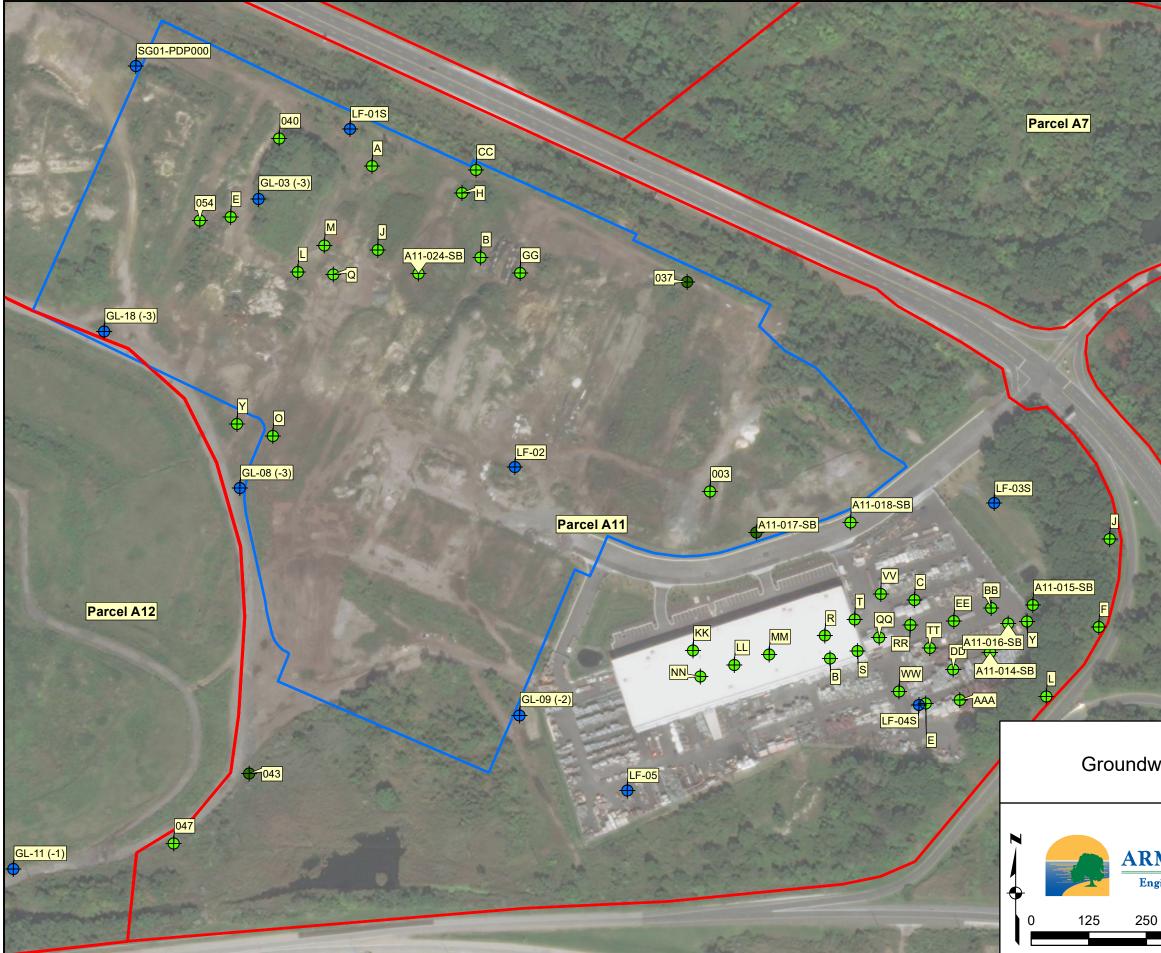
	Parcel A8	10 10 10 10 10 10 10 10 10 10 10 10 10 1
<u>-PZ</u>		
	Supplemental Groundwater Sam Location A11-2 Site Boundary Parcel Boundary	ıple
1-2 - Supplemei dwater Sample L _{May 16, 2022}	ntal Investigation _ocations	Figure 7
	Tradepoint Atlant	tic
M Group LLC gineers and Scientists	Sparrows Point	
500	Baltimore County,	MD
Feet	ARM Project 21010	0111



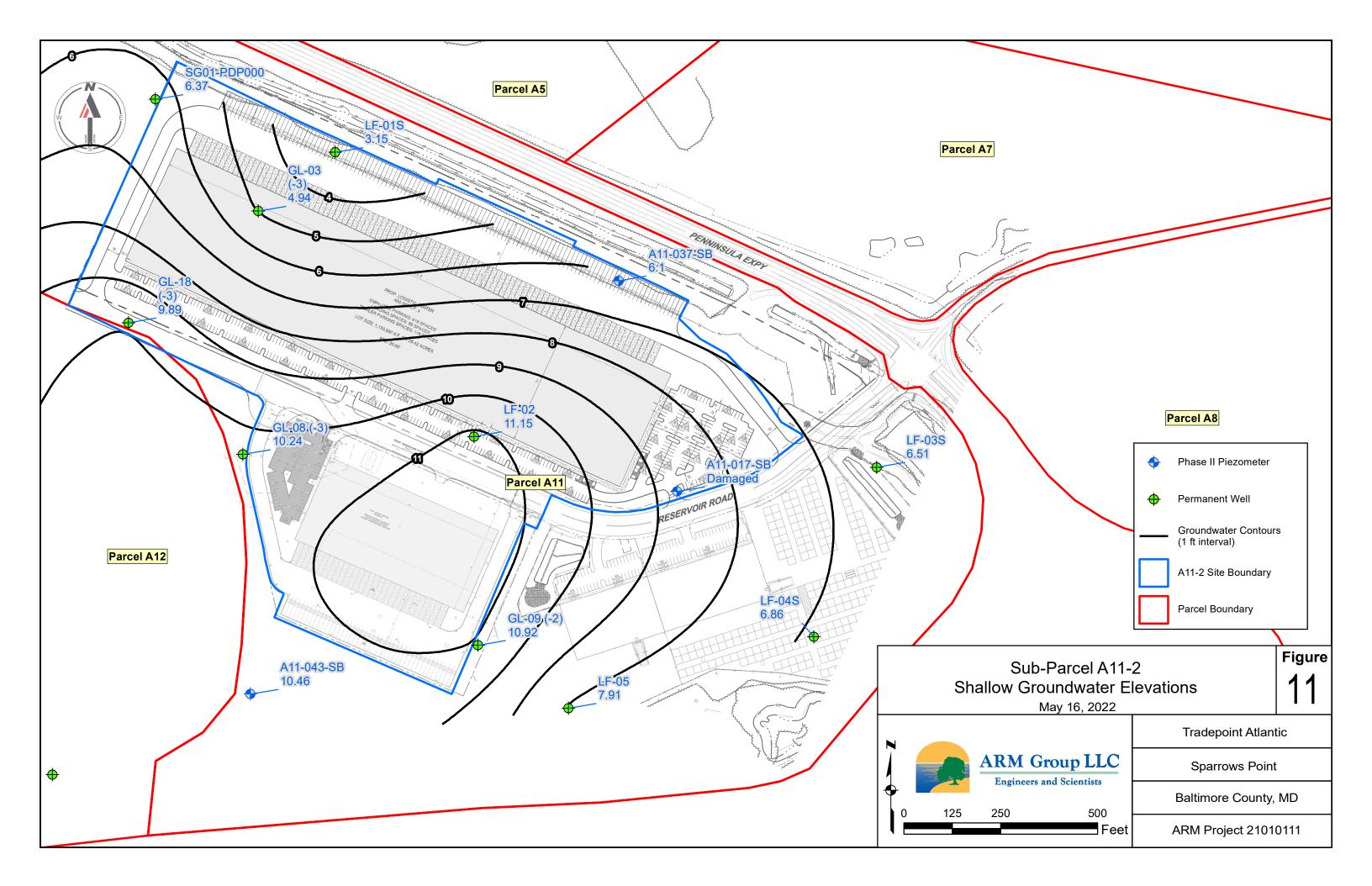


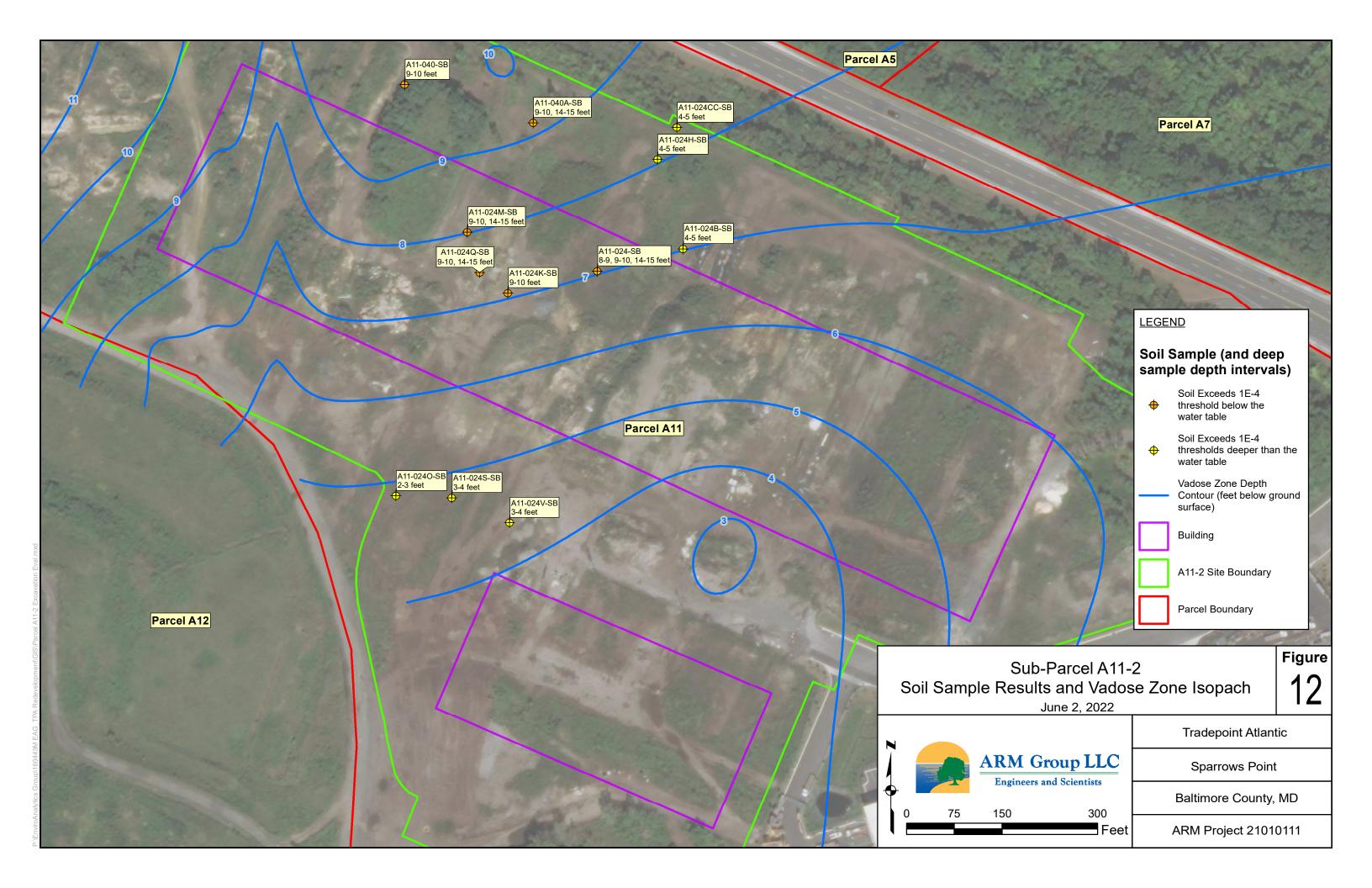
A REAL PROPERTY OF	1 martin	And in case of the local division in which the local division in which the local division is not the local division in the local division in the local division is not the local division in the local division in the local division is not the local division in the local div	And the second division of the second divisio	-
	+		Boring Location NAPL)	
	\$		Boring Location Sheen; No NAPL)	100.00
	¢		Boring Location onclusive due to Refusal)	and the second
el A7	÷		Boring Location NAPL)	1 - A
	AA	>1E Nap Ben	oratory Results -4 Delineation Threshold(s hthalene > 275 mg/kg zo[a]pyrene > 75 mg/kg zene > 150 mg/kg	s):
	AA		oratory Results -4 Delineation Thresholds	
	AA		oratory Results Available	
Ì		A11	-2 Site Boundary	STATES OF THE OWNER OWNER OF THE OWNER OWNER OWNER OF THE OWNER OWNE OWNER OWNE
A.		Parc	cel Boundary	
41.4		Buậ	åð *	7
H	and the second		Pa	arcel A8
Sub-Pa	arcel A	.11-	2	Figure
Observ		- B	elow 5 ft bgs	8b
			Tradepoint Atlanti	ic
M Group LLC Sparrows Point				
gineers and Scientists			Baltimore County, MD	
		eet	ARM Project 21010)111

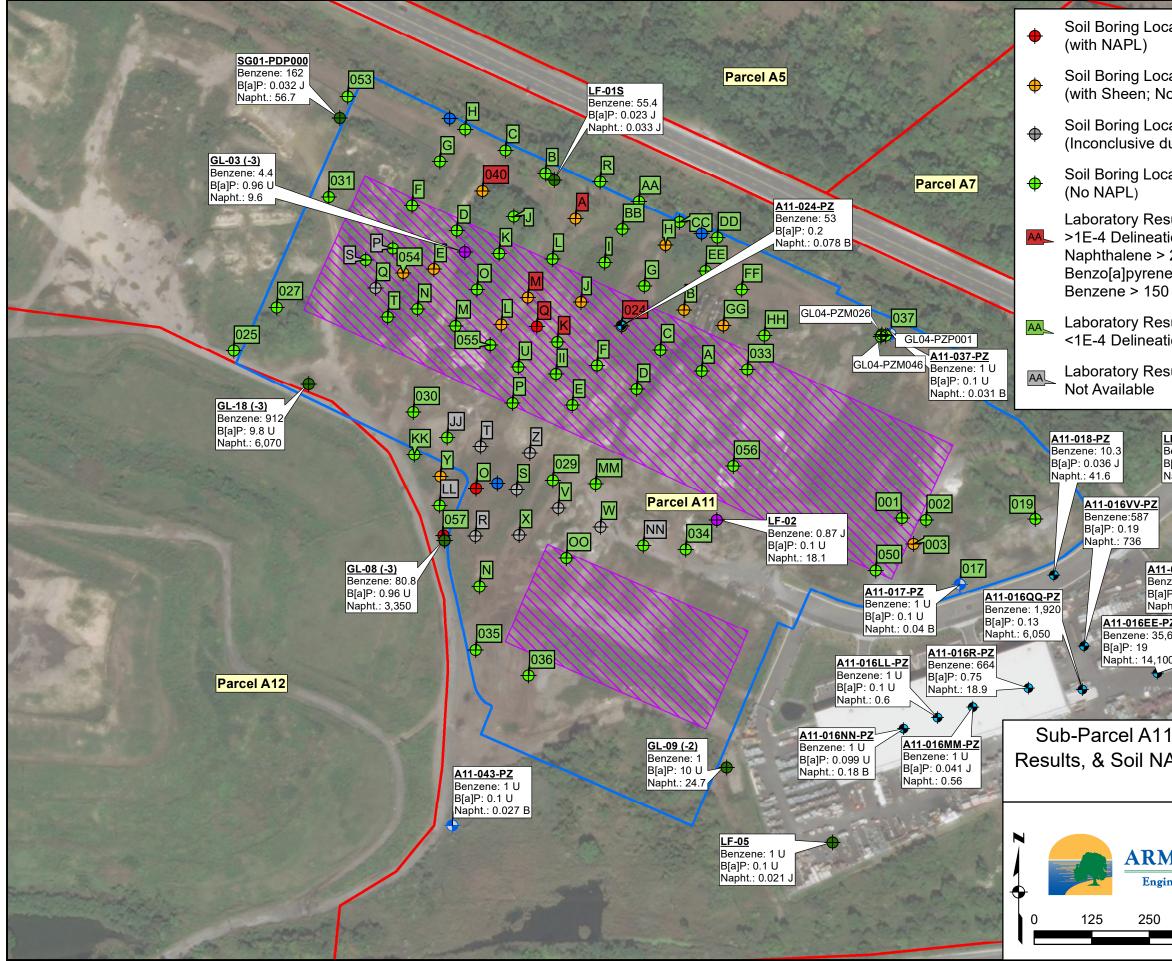




	Parcel A8	
÷	Phase II Piezometer - No NAPL Delineation Screening Piezomete No NAPL Permanent Well - No NAPL A11-2 Site Boundary Parcel Boundary	r -
Sub-Parcel A11-2 vater NAPL Gauging Status May 16, 2022		
M Group LLC	Tradepoint Atlant Sparrows Point	
gineers and Scientists	Baltimore County,	MD
000		



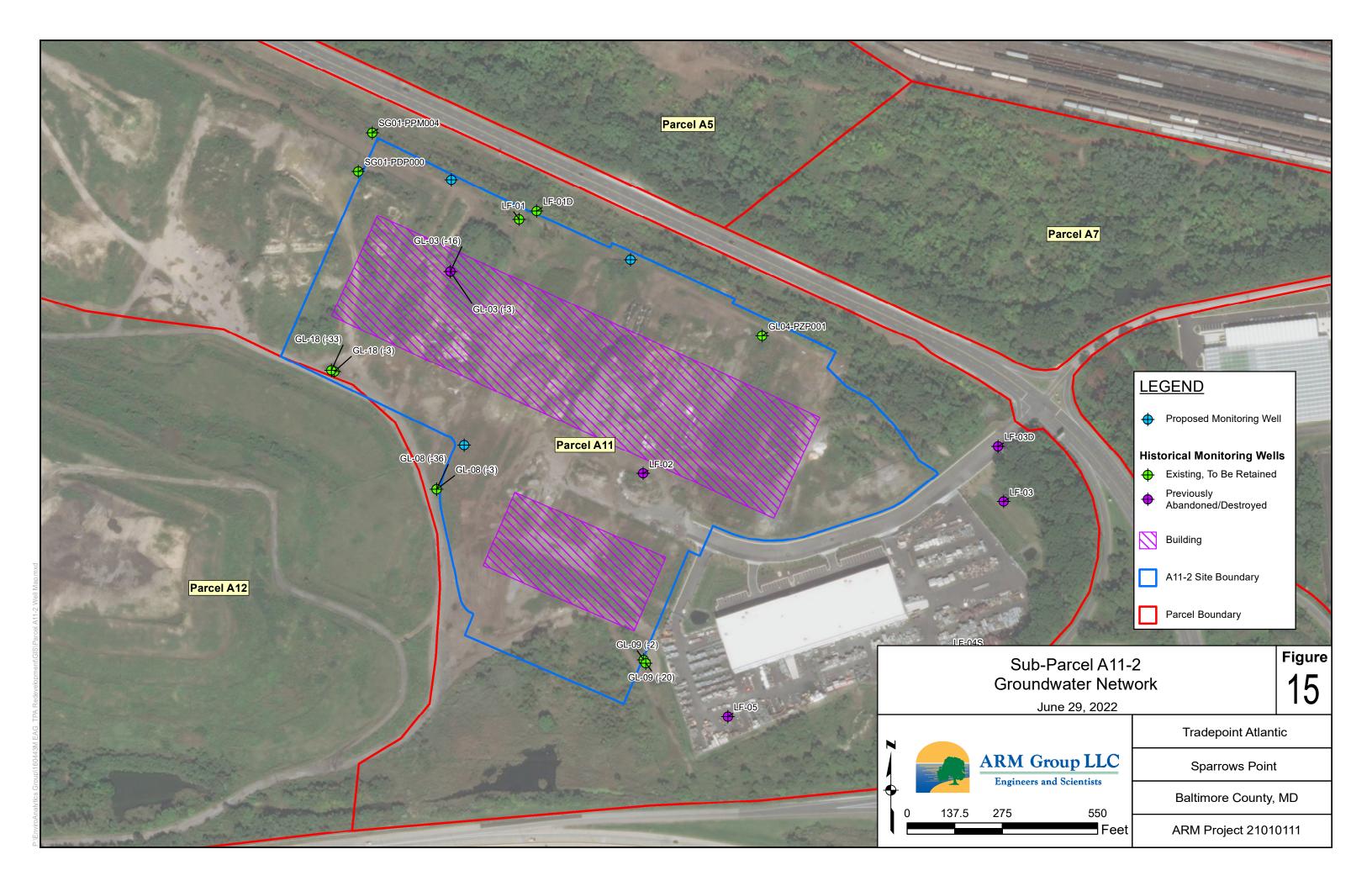


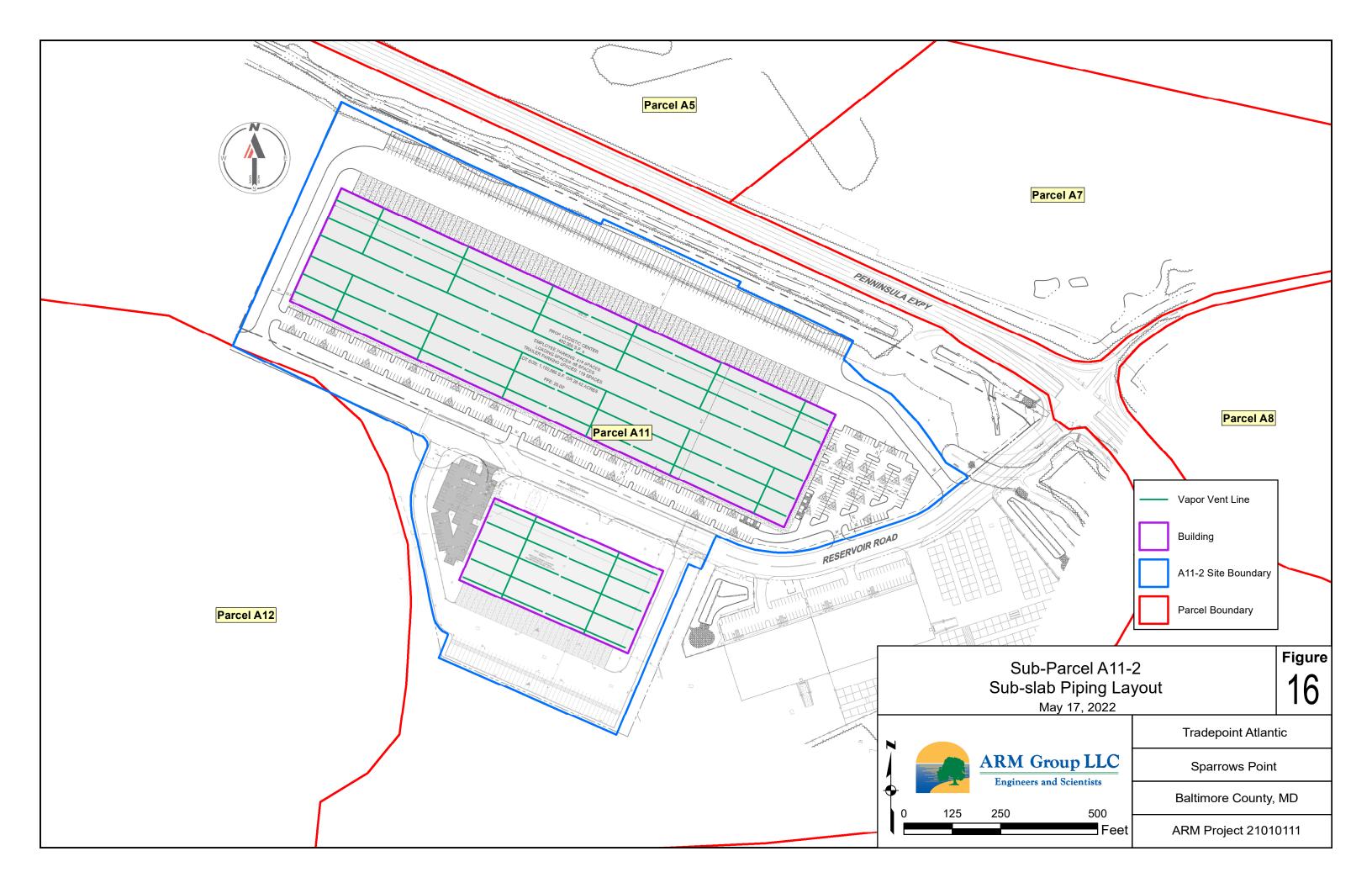


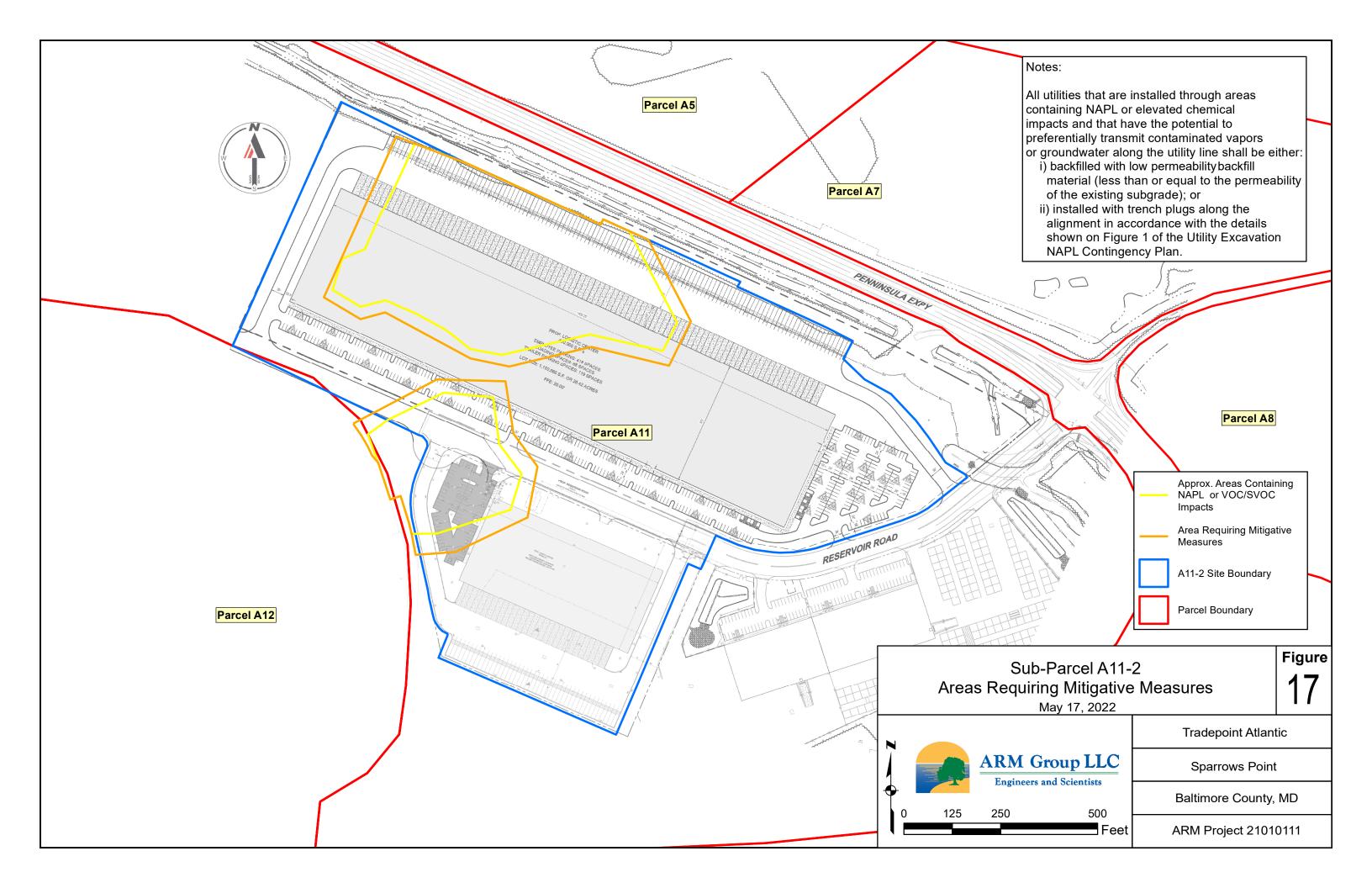
ocation	•	Supplemental Grour Sample Location	ndwater
ocation No NAPL)	•	Phase II Piezomete	r
ocation	¢	Permanent Well	
due to Refusal)	\	Proposed Monitorin	ig Well
ocation esults	¢	Monitoring Well (Abandoned / to be Abandoned)	
ation Threshold(s): > 275 mg/kg		A11-2 Site Boundar	у
ne > 75 mg/kg 50 mg/kg		Parcel Boundary	
esults ation Thresholds		Building	
esults	Grou	undwater Results in ι	ıg/L
LF-03S			the second se
LF-03S Benzene: 26 B[a]P: 0.1 U Napht.: 3.4 A11-015-PZ Benzene: 2,680 B[a]P: 5.3 Napht.: 640 A11-016-PZ enzene: 6,890 [a]P: 5.1 apht.: 8,390 E-PZ 35,600 100 A11-014-PZ Benzene: 96.8 B[a]P: 0.11 Napht.: 39.5	A1 Be B[i Na	1-016J-PZ mzene: 303,000 a]P: 0.049 J apht.: 7,730 1-016F-PZ mzene: 347,000 a]P: 0.19 apht.: 7,600	el A8
Benzene: 26 B[a]P: 0.1 U Napht.: 3.4 A11-015-PZ Benzene: 2,680 B[a]P: 5.3 Napht.: 640 A11-016-PZ enzene: 6,890 [a]P: 5.1 apht.: 8,390 E-PZ 35,600 100 A11-014-PZ Benzene: 96.8 B[a]P: 0.11	A1 Bee B[i Na A1 Bee B[i Na Na	1-016J-PZ enzene: 303,000 a]P: 0.049 J apht: 7,730 1-016F-PZ enzene: 347,000 a]P: 0.19 apht:: 7,600 Groundwater	el A8 Figure 13
Benzene: 26 B[a]P: 0.1 U Napht.: 3.4 A11-015-PZ Benzene: 2,680 B[a]P: 5.3 Napht.: 640 A11-016-PZ enzene: 6,890 [a]P: 5.1 apht.: 8,390 A11-014-PZ Benzene: 96.8 B[a]P: 0.11 Napht.: 39.5 A11-2: Well Netwon NAPL Observation	A1 Bee B[i Na A1 Bee B[i Na Na	1-016J-PZ enzene: 303,000 a]P: 0.049 J apht: 7,730 1-016F-PZ enzene: 347,000 a]P: 0.19 apht:: 7,600 Groundwater	Figure 13
Benzene: 26 B[a]P: 0.1 U Napht.: 3.4 A11-015-PZ Benzene: 2,680 B[a]P: 5.3 Napht.: 640 A11-016-PZ enzene: 6,890 [a]P: 5.1 apht.: 8,390 E-PZ 35,600 100 A11-014-PZ Benzene: 96.8 B[a]P: 0.11 Napht.: 39.5 A11-2: Well Network NAPL Observation May 29, 2022 M Group LLCC	A1 Bee B[i Na A1 Bee B[i Na Na	1-016J-PZ mzene: 303,000 a]P: 0.049 J apht: 7,730 1-016F-PZ mzene: 347,000 a]P: 0.19 apht.: 7,600 Groundwater Below 5 ft bgs	Figure 13 ic
Benzene: 26 B[a]P: 0.1 U Napht.: 3.4 A11-015-PZ Benzene: 2,680 B[a]P: 5.3 Napht.: 640 A11-016-PZ enzene: 6,890 [a]P: 5.1 apht.: 8,390 A11-014-PZ Benzene: 96.8 B[a]P: 0.11 Napht: 39.5 APL Observation May 29, 2022 M Group LLCC agineers and Scientists	A1 Bee B[i Na A1 Bee B[i Na Na	1-016J-PZ mzene: 303,000 a]P: 0.049 J apht: 7,730 1-016F-PZ mzene: 347,000 a]P: 0.19 apht: 7,600 Groundwater Below 5 ft bgs Tradepoint Atlant	Figure 13 ic
Benzene: 26 B[a]P: 0.1 U Napht.: 3.4 A11-015-PZ Benzene: 2,680 B[a]P: 5.3 Napht.: 640 A11-016-PZ enzene: 6,890 [a]P: 5.1 apht.: 8,390 E-PZ 35,600 100 A11-014-PZ Benzene: 96.8 B[a]P: 0.11 Napht.: 39.5 A11-2: Well Network NAPL Observation May 29, 2022 M Group LLCC	A1 Bee B[a Na Park, (ns -	1-016J-PZ mzene: 303,000 a]P: 0.049 J apht: 7,730 1-016F-PZ mzene: 347,000 a]P: 0.19 apht.: 7,600 Groundwater Below 5 ft bgs Tradepoint Atlant Sparrows Point	Figure 13 ic



And shall		
State of the Assess		Contraction of the
The line		And and a
and the states	HERALL BILL	
all interesting the	Di Barriston	Assession and
	to performance and the	The state
State Barry	and the state of the	A CAR
A Contraction		The Mary
Parcel A7	and the second of the	A Sal
APP's Fundament	and the second second	Al set
A A A A A	a man of the	
a strate	the the second	6.65
All sent ray	and and the second	
man and and the	Contraction of the second	
and the loss of the		-
Same /	Contract -	Constanting of
	CONTRACTOR OF	CONTRACTOR OF THE OWNER OWNER OF THE OWNER
	MANY COMPANY	And Street of Lot
	Сар Туре	
	Landscape	CARSES IN A
	Landooupo	10.00
ALL CONTRACTOR	Concrete	
· + Marine Star	CONGER	
	Asphalt	- The
and the second	Aspiran	
	Building	The free of
the states	Building	
· · · ································		
the manual	A11-2 Site Boundary	Roman
		in ten
and the second	Parcel Boundary	- and
and the second	the statistical the	5. 8
Out D 1 4 4 4	0	Figure
Sub-Parcel A11-		
ent Plan Layout -	· Cap Types	14
May 13, 2022		
	Tradepoint Atlant	tic
		-
M Group LLC	Sparrows Point	
gineers and Scientists		
	Baltimore County,	MD
500		
Feet	ARM Project 2101	0111







TABLES

	Π	11																	
Parameter	Units	PAL			* A11-002-SB-1*			A11-003-SB-5*		A11-017-SB-5	A11-017-SB-10		A11-019-SB-4		A11-024AA-SB-10*		A11-024A-SB-10*		
Valatila Organia Compounda	1	II	8/1/2016	8/1/2016	8/1/2016	8/1/2016	8/1/2016	8/1/2016	7/29/2016	7/29/2016	7/29/2016	7/29/2016	7/29/2016	8/21/2018	8/21/2018	6/12/2018	6/12/2018	6/12/2018	8/21/2018
Volatile Organic Compounds 1.1-Dichloroethane	ma/lta	16	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
1,2-Dibromo-3-chloropropane	mg/kg mg/kg	0.064	0.0051 U 0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U 0.004 U	0.0056 U	N/A N/A	0.006 U	0.0074 U 0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
1,2-Dichloroethene (Total)	mg/kg	2,300	0.0031 U	0.0034 C	0.011 U	0.0047 U 0.0093 U	0.0002 U 0.012 U	0.003 U 0.01 U	0.004 U 0.0081 U	0.0030 U 0.011 U	N/A N/A	0.000 U	0.015 U	0.0045 U	0.0043 U 0.0086 U	0.0043 U	0.0041 U 0.0083 U	0.0041 U 0.0083 U	0.0093 U
2-Butanone (MEK)	mg/kg	190,000	0.01 U	0.011 U	0.011 U	0.0093 U	0.012 U	0.01 U	0.0081 U	0.011 U	N/A	0.012 U	0.015 U	0.0085 U	0.0086 U	0.009 U	0.0083 U	0.0083 U	0.019 U
4-Methyl-2-pentanone (MIBK)	mg/kg	56.000	0.01 U	0.011 U	0.011 U	0.0093 U	0.012 U	0.01 U	0.0081 U	0.011 U	N/A	0.012 U	0.015 U	0.0085 U	0.0086 U	0.009 U	0.0083 U	0.0018 J	0.019 U
Acetone	mg/kg	670,000	0.01 U	0.077	0.027	0.023	0.017	0.01 U	0.016 J	0.083 J	N/A	0.012 UJ	0.014 J	0.0074 J	0.034	0.081	0.0083 U	0.035	0.04
Benzene	mg/kg	5.1	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.025	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0067	0.055	0.0045 U	0.083	0.057	0.067
Carbon disulfide	mg/kg	3,500	0.0051 U	0.0054 U	0.0056 U	0.0027 J	0.0037 J	0.005 U	0.004 UJ	0.0056 UJ	N/A	0.006 UJ	0.0074 UJ	0.0019 J	0.0043 U	0.0045 U	0.0024 J	0.0041 U	0.0093 U
Chloroform	mg/kg	1.4	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
cis-1,2-Dichloroethene	mg/kg	2,300	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
Cyclohexane	mg/kg	27,000	0.01 U	0.011 U	0.011 U	0.0093 U	0.012 U	0.01 U	0.0081 U	0.011 U	N/A	0.012 U	0.015 U	0.0085 U	0.0086 U	0.009 U	0.0083 U	0.0083 U	0.019 U
Ethylbenzene	mg/kg	25	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
Isopropylbenzene	mg/kg	9,900	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
Methyl Acetate	mg/kg	1,200,000	0.051 U 0.0051 U	0.054 U 0.0054 U	0.056 U 0.0056 U	0.047 U 0.0047 U	0.062 U 0.0062 U	0.05 U 0.005 U	0.04 R 0.004 U	0.056 R 0.0056 U	N/A N/A	0.06 R 0.006 U	0.074 R 0.0074 U	0.043 U 0.0043 U	0.043 U 0.0043 U	0.0044 J 0.0045 U	0.041 U 0.0041 U	0.0014 J 0.0041 U	0.093 U 0.0093 U
Methylene Chloride	mg/kg mg/kg	35,000	0.0051 U 0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U 0.0062 U	0.005 U	0.004 U 0.004 U	0.0036 U 0.0056 U	N/A N/A	0.006 U	0.0074 U 0.0074 U	0.0043 U	0.0043 U 0.0043 U	0.0045 U	0.0041 U 0.0041 U	0.0041 U 0.0041 U	0.0093 U
Styrene Tetrachloroethene	mg/kg	100	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A N/A	0.006 U	0.0074 U	0.0013 J 0.0043 U	0.0043 U 0.0043 U	0.0045 U	0.0041 U	0.0041 U 0.0041 U	0.0093 U
Toluene	mg/kg	47,000	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.003 U	0.004 U	0.0056 U	N/A N/A	0.006 U	0.0074 U	0.0043 0	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0033 U
trans-1,2-Dichloroethene	mg/kg	23,000	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.0023 J	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
Trichloroethene	mg/kg	6	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0041 U	0.0093 U
Vinyl chloride	mg/kg	1.7	0.0051 U	0.0054 U	0.0056 U	0.0047 U	0.0062 U	0.005 U	0.004 U	0.0056 U	N/A	0.006 U	0.0074 U	0.0043 U	0.0043 U	0.0045 U	0.0041 U	0.0067	0.0093 U
Xylenes	mg/kg	2,800	0.015 U	0.016 U	0.017 U	0.014 U	0.018 U	0.015 U	0.012 U	0.017 U	N/A	0.018 U	0.022 U	0.023	0.007 J	0.014 U	0.0047 J	0.012 U	0.013 J
Semi-Volatile Organic Compounds^																			
1,1-Biphenyl	mg/kg	200	0.074 U	0.077 U	0.076 U	0.079 U	0.08 U	0.11	0.073 U	0.088 U	N/A	0.071 U	0.078 U	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dimethylphenol	mg/kg	16,000	0.074 U	0.077 U	0.076 U	0.079 U	0.08 U	0.76	0.073 U	0.088 U	N/A	0.071 U	0.078 UJ	N/A	N/A	N/A	N/A	N/A	N/A
2-Methylnaphthalene	mg/kg	3,000	0.035	0.064	0.082	0.065	0.0086	0.35	0.064	0.12	N/A	0.07 U	0.0094	47	0.0069 J	0.047	0.18	0.0069 J	0.02
2-Methylphenol	mg/kg	41,000	0.074 U	0.077 U	0.076 U	0.079 U	0.08 U	1.2	0.073 U	0.088 U	N/A	0.071 U	0.078 UJ	N/A	N/A	N/A	N/A	N/A	N/A
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.15 U	0.15 U	0.089 J	0.16 U	2.3	0.15 U	0.11 J	N/A	0.14 U	0.16 UJ	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthene Acenaphthylene	mg/kg mg/kg	45,000 45,000	0.015 0.034	0.017 0.0033 J	0.00072 J 0.0045 J	0.0072 J 0.0053 J	0.0013 J 0.0015 J	0.11 0.62	0.11 0.015	0.074 0.017	N/A N/A	0.014 J 0.07 U	0.00084 J 0.0018 J	3.6 30.4	0.0078 U 0.0012 J	0.19 0.053	0.25	0.0034 J 0.0085 U	0.0079 J 0.022
Acetophenone	mg/kg	120,000	0.034 0.074 U	0.0033 J 0.077 U	0.0045 J 0.076 U	0.0053 J 0.079 U	0.0015 J 0.08 U	0.02 0.079 U	0.015 0.073 U	0.017 0.088 U	N/A N/A	0.07 U	0.0018 J 0.078 U	30.4 N/A	0.0012 J N/A	0.055 N/A	0.045 N/A	0.0083 U N/A	0.022 N/A
Anthracene	mg/kg	230,000	0.066	0.0078	0.0051 J	0.015	0.0029 J	1	0.075 0	0.000 C	N/A	0.012 J	0.0054 J	50.7	0.0027 J	0.27	0.22	0.0023 J	0.042
Benz[a]anthracene	mg/kg	21	0.18	0.016	0.015	0.026	0.0097	4.6	0.48	0.32	N/A	0.079	0.015	141	0.0027 0 0.0064 J	0.84	0.56	0.0044 J	0.069
Benzaldehyde	mg/kg	120,000	0.074 U	0.077 U	0.076 U	0.079 U	0.08 U	0.11	0.073 UJ	0.037 J	N/A	0.071 UJ	0.078 UJ	N/A	N/A	N/A	N/A	N/A	N/A
Benzo[a]pyrene	mg/kg	2.1	0.18	0.015	0.011	0.022	0.014	3.8	0.8	0.3	0.0012 J	0.15	0.015	144	0.0045 J	0.98	0.35	0.013	0.074
Benzo[b]fluoranthene	mg/kg	21	0.36	0.039	0.032	0.049	0.03	8	1.7 J	0.75	N/A	0.28	0.036	282	0.0066 J	1.2	0.58	0.011	0.12
Benzo[g,h,i]perylene	mg/kg		0.069	0.0067 J	0.008	0.011	0.012	1.2	0.2	0.051	N/A	0.072	0.0061 J	78.7	0.0027 J	0.58	0.13	0.0023 J	0.038
Benzo[k]fluoranthene	mg/kg	210	0.33	0.035	0.029	0.045	0.027	7.3	1.5 J	0.69	N/A	0.25	0.032	72	0.0027 J	0.47	0.21	0.0025 J	0.036
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.019 J	0.077 U	0.076 U	0.079 U	0.08 U	0.039 J	0.026 J	0.078 J	N/A	0.19 J	0.016 J	N/A	N/A	N/A	N/A	N/A	N/A
Caprolactam	mg/kg	400,000	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.095 J	0.18 U	0.22 U	N/A	0.18 U	0.2 U	N/A	N/A	N/A	N/A	N/A	N/A
Carbazole	mg/kg	2 100	0.024 J	0.077 U	0.076 U	0.079 U	0.08 U	0.15	0.042 J	0.11	N/A	0.071 U	0.078 U	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene Dibenz[a,h]anthracene	mg/kg mg/kg	2,100	0.18	0.023 0.003 J	0.019 0.0033 J	0.035 0.004 J	0.012 0.0037 J	4.4 0.58	0.49 0.067	0.33	N/A N/A	0.11 0.024 J	0.017 0.0025 J	120 33	0.0043 J 0.0078 U	0.76	0.42	0.0057 J 0.0085 U	0.06
Diethylphthalate	mg/kg	660,000	0.05 0.074 U	0.003 J	0.076 U	0.079 U	0.08 U	0.079 U	0.073 U	0.088 U	N/A N/A	0.024 J 0.071 U	0.078 U	N/A	N/A	N/A	N/A	N/A	0.012 N/A
Fluoranthene	mg/kg	30,000	0.33	0.049	0.038	0.069	0.015	8.3	0.72	0.000 C	N/A	0.0710	0.078 0	465	0.011	1.3	1	0.012	0.17
Fluorene	mg/kg	30,000	0.036	0.012	0.0012 J	0.015	0.0016 J	0.38	0.043	0.074	N/A	0.07 U	0.0012 J	10.6	0.0015 J	0.077	0.43	0.0058 J	0.032
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.076	0.007 J	0.0076 J	0.01	0.01	1.4	0.24	0.067	N/A	0.07 J	0.0067 J	79.9	0.0024 J	0.56	0.14	0.0022 J	0.037
Naphthalene	mg/kg	8.6	0.077	0.06	0.057	0.047	0.01	0.58	0.064	0.12	N/A	0.026 B	0.0095	150	0.23	0.069	0.39	0.022	0.3
N-Nitrosodiphenylamine	mg/kg	470	0.074 U	0.077 U	0.076 U	0.079 U	0.08 U	0.079 U	0.073 U	0.088 U	N/A	0.071 U	0.078 U	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene	mg/kg		0.25	0.046	0.02	0.073	0.015	2.5	0.46	0.48	N/A	0.056 B	0.022	120	0.0088	0.88	1.2	0.021	0.14
Phenol	mg/kg	250,000	0.074 U	0.077 U	0.076 U	0.079 U	0.08 U	0.094	0.073 U	0.088 U	N/A	0.071 U	0.078 UJ	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	mg/kg	23,000	0.27	0.035	0.031	0.053	0.012	6.2	0.65	0.54	N/A	0.099	0.024	372	0.0089	1.1	0.8	0.0092	0.13
PCBs	1	0.04	0.0577.11	27/4	0.420	27/4	0.0520.11	27/4	0.0(01.11	21/4	21/4	0.0525.11	21/4	27/4	21/4	21/4	27/4	27/4	27/4
Aroclor 1248 Aroclor 1254	mg/kg	0.94	0.0577 U 0.0577 U	N/A N/A	0.439	N/A N/A	0.0539 U 0.0539 U	N/A	0.0601 U 0.0601 U	N/A N/A	N/A N/A	0.0535 U	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
Aroclor 1254 Aroclor 1260	mg/kg mg/kg	0.97 0.99	0.0577 U 0.0577 U	N/A N/A	0.257 0.0857	N/A N/A	0.0539 U 0.0539 U	N/A N/A	0.0601 U 0.0601 U	N/A N/A	N/A N/A	0.0535 U 0.033 J	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
PCBs (total)	mg/kg mg/kg	0.99	0.0577 U 0.0577 U	N/A N/A	0.0857	N/A N/A	0.0539 U 0.0539 U	N/A N/A	0.0601 U 0.0601 U	N/A N/A	N/A N/A	0.033 J	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
TPH/Oil and Grease	II Ing/Kg	0.77	0.0377.0	11//4	0./01/	11//4	0.0339.0	IN/A	0.0001 0	11/A	1WA	0.033 3	IN/A	11//A	11/74	11//A	11//1	11//A	11//A
Diesel Range Organics		6,200	47.9	63.6	36.9	96.5	23.1	172	147 J	52.8 J	N/A	85.7 J	39.2 J	1,520	5.3 J	207	301	43.1	40.8
Dieser Kange Organics	<u>mg/κσ</u>													1,040					10.0
Gasoline Range Organics	mg/kg mg/kg	6,200	10.3 U	11.8 U	16.1 U	10.7 U	14.3 U	16.2	11 U	13.6 U	N/A	8.9 U	13.4 U	10.1 U	9.5 U	9.5 U	11.5	13.1 U	14.7 U
	6.6	-					14.3 U 519	16.2 1,020					13.4 U 359	10.1 U 2,560	9.5 U 389	9.5 U 1,340	11.5 2,170	13.1 U 623	14.7 U 1,280

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank. UJ: This analye was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

·	n	1				111 00 ID 0D 104		111 00 100 0D 5*									* + 11 00 (D 0D 5*
Parameter	Units	PAL	A11-024BB-SB-10*	A11-024BB-SB-15*		A11-024B-SB-10*	A11-024B-SB-15*			A11-024CC-SB-13.5*		A11-024C-SB-10*	A11-024C-SB-15*		A11-024DD-SB-10*		
			8/21/2018	8/21/2018	6/12/2018	6/12/2018	6/12/2018	8/21/2018	8/21/2018	8/21/2018	6/12/2018	6/12/2018	6/13/2018	8/22/2018	8/22/2018	8/22/2018	6/13/2018
Volatile Organic Compounds	1 /	1.6	0.005(11	0.0040 11	0.00((11	0.0047.11	0.0045 11	0.0047.11	0.0051.11	0.0042 11	0.0045 11	0.004.11	0.002611	0.0045 11	0.005 11	0.0047.11	0.00(0.11
1,1-Dichloroethane	mg/kg	16 0.064	0.0056 U 0.0056 U	0.0048 U 0.0048 U	0.0066 U 0.0066 U	0.0047 U 0.0047 U	0.0045 U 0.0045 U	0.0047 U 0.0047 U	0.0051 U 0.0051 U	0.0042 U 0.0042 U	0.0045 U 0.0045 U	0.004 U 0.004 U	0.0036 U 0.0036 U	0.0045 U 0.0045 U	0.005 U 0.005 U	0.0047 U 0.0047 U	0.0068 U 0.0068 U
1,2-Dibromo-3-chloropropane 1,2-Dichloroethene (Total)	mg/kg	2,300	0.0038 U 0.011 U	0.0048 U 0.0095 U	0.0086 U 0.013 U	0.0047 U 0.0093 U	0.0043 U 0.009 U	0.0047 U 0.0094 U	0.0031 U 0.01 U	0.0042 U 0.0083 U	0.0043 U 0.0089 U	0.004 U 0.0081 U	0.0036 U 0.0072 U	0.0043 U 0.009 U	0.003 U 0.01 U	0.0047 U 0.0094 U	0.0068 U 0.014 U
2-Butanone (MEK)	mg/kg mg/kg	2,300	0.011 U	0.0095 U 0.0095 U	0.013 U	0.0093 U	0.009 U 0.009 U	0.0094 U	0.01 U	0.0083 U	0.0089 U 0.0089 U	0.0081 U 0.0081 U	0.0072 U 0.0072 U	0.009 U 0.0064 J	0.01 U	0.0094 U 0.0094 U	0.014 U 0.014 U
4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.011 U	0.0095 U	0.0059 J 0.013 U	0.0093 U	0.009 U	0.0094 U	0.01 U	0.0083 U	0.0089 U	0.0081 U	0.0072 U	0.0064 J 0.009 U	0.01 U	0.0094 U	0.014 U
	mg/kg	670,000	0.011 U	0.0095 U	0.013 0	0.0093.0	0.009 0	0.0094 U	0.01 U	0.0083 U	0.0089 0	0.0081 0	0.0072 U	0.003 0	0.01 U	0.0094 U	0.014 U
Acetone Benzene	mg/kg	5.1	0.011 0	0.0093 0	452	0.1	7.3	3.5	0.01 0	0.0083 0	0.020 0.003 J	0.018 0.0022 J	0.0072 U 0.0036 U	0.047	0.01 0	0.0094 0	0.0068 U
Carbon disulfide	mg/kg	3,500	0.0056 U	0.0048 U	0.16	0.0040 0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.003 J	0.0018 J	0.0030 0	0.0045 U	0.005 U	0.0047 U	0.0038 J
Chloroform	mg/kg	1.4	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
cis-1,2-Dichloroethene	mg/kg	2,300	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Cvclohexane	mg/kg	27,000	0.0050 C	0.0095 U	0.025	0.0093 U	0.0045 C	0.0094 U	0.0001 U	0.0042 U	0.0049 U	0.004 C	0.0072 U	0.0045 C	0.005 C	0.0094 U	0.014 U
Ethylbenzene	mg/kg	27,000	0.0023 J	0.0048 U	0.24	0.0047 U	0.0017 J	0.011	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0015 J	0.005 U	0.0047 U	0.0068 U
Isopropylbenzene	mg/kg	9,900	0.0056 U	0.0048 U	0.053	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Methyl Acetate	mg/kg	1,200,000	0.056 U	0.048 U	0.066 U	0.0042 J	0.045 U	0.047 U	0.051 U	0.042 U	0.013 J	0.051	0.036 U	0.045 U	0.05 U	0.047 U	0.0056 J
Methylene Chloride	mg/kg	1,200,000	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Styrene	mg/kg	35,000	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Tetrachloroethene	mg/kg	100	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Toluene	mg/kg	47,000	0.0051 J	0.0048 U	183	0.0056	0.084	0.0056	0.0035 J	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0017 J	0.0062	0.0047 U	0.0068 U
trans-1,2-Dichloroethene	mg/kg	23,000	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Trichloroethene	mg/kg	6	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Vinyl chloride	mg/kg	1.7	0.0056 U	0.0048 U	0.0066 U	0.0047 U	0.0045 U	0.0047 U	0.0051 U	0.0042 U	0.0045 U	0.004 U	0.0036 U	0.0045 U	0.005 U	0.0047 U	0.0068 U
Xylenes	mg/kg	2,800	0.032	0.005 J	234	0.0057 J	0.09	0.024	0.025	0.013 U	0.013 U	0.012 U	0.011 U	0.011 J	0.018	0.0081 J	0.02 U
Semi-Volatile Organic Compounds^		,															
1,1-Biphenyl	mg/kg	200	N/A	N/A	N/A	N/A											
2,4-Dimethylphenol	mg/kg	16.000	N/A	N/A	N/A	N/A											
2-Methylnaphthalene	mg/kg	3,000	0.007 J	0.0046 J	403	0.028	0.72	12	0.011	0.0077 U	0.0043 J	0.0044 J	0.0046 J	0.7	0.006 J	0.014	0.021
2-Methylphenol	mg/kg	41,000	N/A	N/A	N/A	N/A											
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	N/A	N/A	N/A	N/A											
Acenaphthene	mg/kg	45,000	0.0021 J	0.0028 J	60.8	0.039	0.16	17	0.0056 J	0.0077 U	0.015	0.0082	0.011	0.23	0.0078 U	0.012	0.056
Acenaphthylene	mg/kg	45,000	0.0022 J	0.0074 J	102	0.05	0.25	98. 7	0.017	0.0077 U	0.012	0.01	0.01	0.39	0.0078 U	0.0084	0.013
Acetophenone	mg/kg	120,000	N/A	N/A	N/A	N/A											
Anthracene	mg/kg	230,000	0.0061 J	0.018	695	0.076	1.5	385	0.037	0.0077 U	0.015	0.016	0.024	1.1	0.0014 J	0.054	0.081
Benz[a]anthracene	mg/kg	21	0.01	0.034	495	0.054	1.4	691	0.075	0.0077 U	0.033	0.017	0.053	2.7	0.0038 J	0.058	0.28
Benzaldehyde	mg/kg	120,000	N/A	N/A	N/A	N/A											
Benzo[a]pyrene	mg/kg	2.1	0.0096	0.035	316	0.082	0.91	675	0.078	0.0077 U	0.037	0.024	0.047	2.2	0.002 J	0.048	0.29
Benzo[b]fluoranthene	mg/kg	21	0.013	0.047	481	0.13	1.5	869	0.11	0.0077 U	0.039	0.026	0.061	3.4	0.0028 J	0.06	0.36
Benzo[g,h,i]perylene	mg/kg		0.0049 J	0.017	148	0.12	0.3	157	0.038	0.0077 U	0.02	0.011	0.014	0.88	0.0078 U	0.023	0.12
Benzo[k]fluoranthene	mg/kg	210	0.0046 J	0.016	172	0.11	0.54	394	0.037	0.0077 U	0.014	0.0086	0.027	1	0.0015 J	0.032	0.17
bis(2-Ethylhexyl)phthalate	mg/kg	160	N/A	N/A	N/A	N/A											
Caprolactam	mg/kg	400,000	N/A	N/A	N/A	N/A											
Carbazole	mg/kg		N/A	N/A	N/A	N/A											
Chrysene	mg/kg	2,100	0.0079 J	0.029	396	0.044	1.1	614	0.063	0.00048 J	0.032	0.017	0.045	2.3	0.0023 J	0.056	0.23
Dibenz[a,h]anthracene	mg/kg	2.1	0.0082 U	0.0056 J	50	0.023	0.11	80.1	0.012	0.0077 U	0.0042 J	0.003 J	0.0062 J	0.4	0.0078 U	0.0073 J	0.047
Diethylphthalate		660,000	N/A	N/A	N/A	N/A											
Fluoranthene	mg/kg	30,000	0.022	0.074	1,600	0.14	5.1	2,540	0.17	0.0017 J	0.064	0.036	0.12	6.8	0.0078 J	0.17	0.46
Fluorene	mg/kg		0.0057 J	0.01	732	0.095	1.7	157	0.023	0.0077 U	0.012	0.012	0.016	2.1	0.0022 J	0.033	0.038
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.0046 J	0.017	153	0.085	0.33	308	0.035	0.0077 U	0.013	0.0086	0.014	0.97	0.0078 U	0.023	0.12
Naphthalene	mg/kg	8.6	0.44	0.14	5,660	0.21	6.7	169	0.84	0.002 J	0.025	0.02	0.018	9	0.19	0.19	0.07
N-Nitrosodiphenylamine	mg/kg	470	N/A	N/A	N/A	N/A											
Phenanthrene	mg/kg		0.02	0.057	4,380	0.23	7.4	1,120	0.12	0.0016 J	0.06	0.037	0.064	7.2	0.0072 J	0.16	0.24
Phenol	mg/kg	250,000	N/A	N/A	N/A	N/A											
Pyrene	mg/kg	23,000	0.017	0.057	1,030	0.099	3.3	1,380	0.14	0.0013 J	0.072	0.028	0.092	4.8	0.0057 J	0.12	0.38
PCBs		1															
Aroclor 1248	mg/kg	0.94	N/A	N/A	N/A	N/A											
Aroclor 1254	mg/kg	0.97	N/A	N/A	N/A	N/A											
Aroclor 1260	mg/kg	0.99	N/A	N/A	N/A	N/A											
PCBs (total)	mg/kg	0.97	N/A	N/A	N/A	N/A											
TPH/Oil and Grease																	
Diesel Range Organics	mg/kg	6,200	9.5	5.6 J	21,300	19.7	138	20,000	15.9	2 J	22.9	126	672	40.1	4 J	10.6	190
Gasoline Range Organics	mg/kg	6,200	10.2 U	9.2 U	2,560	10.2 U	16.7	11.3	10 U	8.8 U	13 U	8.4 U	9.9 U	9.1 U	9.6 U	9.2 U	9.6 U
Oil and Grease	mg/kg	6,200	695	654	43,800	240	436	13,800	652	736	267 J	1,070	2,870	858	295	682	558

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

	n – – – – – – – – – – – – – – – – – – –	n															
Parameter	Units	PAL			A11-024EE-SB-10*									A11-024GG-SB-5*			
			6/13/2018	8/22/2018	8/22/2018	8/22/2018	6/13/2018	6/13/2018	6/13/2018	8/22/2018	6/14/2018	6/14/2018	8/22/2018	8/22/2018	6/14/2018	6/14/2018	6/14/2018
Volatile Organic Compounds	1	16	0.004.11	0.0007.11	0.0040 II	0.0045 11	0.0041 11	0.0044.11	0.0042 11	0.005(11	0.00(7.11	0.0047.11	0.0055.11	0.0050 II	0.0052 11	0.0042.11	0.0046 11
1,1-Dichloroethane	mg/kg	16 0.064	0.004 U 0.004 U	0.0097 U 0.0097 U	0.0049 U 0.0049 U	0.0045 U	0.0041 U	0.0044 U 0.0044 U	0.0042 U 0.0042 U	0.0056 U 0.0056 U	0.0067 U 0.0067 U	0.0047 U 0.0047 U	0.0055 U 0.0055 U	0.0059 U 0.0059 U	0.0053 U 0.0053 U	0.0042 U 0.0042 U	0.0046 U
1,2-Dibromo-3-chloropropane 1,2-Dichloroethene (Total)	mg/kg mg/kg	2,300	0.004 U 0.0081 U	0.0097 U 0.019 U	0.0049 U 0.0099 U	0.0045 U 0.009 U	0.0041 U 0.0082 U	0.0044 U 0.0087 U	0.0042 U 0.0085 U	0.0036 U 0.011 U	0.0087 U 0.013 U	0.0047 U 0.0094 U	0.0033 U 0.011 U	0.0039 U 0.012 U	0.0033 U 0.0082 U	0.0042 U 0.0084 U	0.0046 U 0.0092 U
2-Butanone (MEK)	mg/kg	190,000	0.0081 U	0.019 U	0.0099 U	0.009 U	0.0082 U	0.0087 U	0.0085 U	0.011 U	0.013 U	0.0094 U	0.011 U	0.012 U	0.0082 U 0.011 U	0.0084 U	0.0092 U
4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.0081 U	0.019 U	0.0099 U	0.009 U	0.0082 U	0.0087 U	0.0085 U	0.011 U	0.013 U	0.0094 U	0.011 U	0.012 U	0.011 U	0.0084 U	0.0092 U
Acetone	mg/kg	670,000	0.0081 U	0.019 U	0.017	0.009 U	0.037	0.01	0.018	0.011 U	0.084	0.074	0.016	0.072	0.16	0.081	0.16
Benzene	mg/kg	5.1	0.004 U	0.0097 U	0.0034 J	0.0038 J	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0017 J	0.0055 U	0.0059 U	0.36	32.7	40.6
Carbon disulfide	mg/kg	3,500	0.0025 J	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0025 J	0.002 J	0.0056 U	0.0067 U	0.002 J	0.0055 U	0.0059 U	0.005 J	0.0046	0.0049
Chloroform	mg/kg	1.4	0.004 U	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0047 U	0.0055 U	0.0059 U	0.0053 U	0.0042 U	0.0046 U
cis-1,2-Dichloroethene	mg/kg	2,300	0.004 U	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0047 U	0.0055 U	0.0059 U	0.0053 U	0.0042 U	0.0046 U
Cyclohexane	mg/kg	27,000	0.0081 U	0.019 U	0.0099 U	0.009 U	0.0082 U	0.0087 U	0.0085 U	0.011 U	0.013 U	0.0094 U	0.011 U	0.012 U	0.011 U	0.0084 U	0.0092 U
Ethylbenzene	mg/kg	25	0.004 U	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0047 U	0.0055 U	0.0059 U	0.0053 U	0.0096	0.0066
Isopropylbenzene	mg/kg	9,900	0.004 U	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0047 U	0.0055 U	0.0059 U	0.0053 U	0.0042 U	0.0046 U
Methyl Acetate	mg/kg	1,200,000	0.04 U	0.097 U	0.049 U	0.045 U	0.0013 J	0.044 U	0.042 U	0.056 U	0.068	0.18	0.055 U	0.059 U	0.0099 J	0.009 J	0.0048 J
Methylene Chloride	mg/kg	1,000	0.004 U	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0047 U	0.0055 U	0.028	0.0053 U	0.0042 U	0.0046 U
Styrene Totrochloroothono	mg/kg	35,000	0.004 U 0.004 U	0.0097 U 0.0097 U	0.0049 U 0.0049 U	0.0045 U	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0047 U	0.0055 U	0.0059 U	0.0053 U	0.0042 U	0.0046 U
Tetrachloroethene Toluene	mg/kg mg/kg	100 47,000	0.004 U 0.004 U	0.0097 U 0.0097 U	0.0049 U 0.0049 U	0.0045 U 0.0045 U	0.0041 U 0.0041 U	0.0044 U 0.0044 U	0.0042 U 0.0042 U	0.0056 U 0.0056 U	0.0067 U 0.0067 U	0.0047 U 0.0015 J	0.0055 U 0.0055 U	0.0059 U 0.0059 U	0.0053 U 0.0072	0.0042 U 0.32	0.0046 U 2 J
trans-1,2-Dichloroethene	mg/kg mg/kg	23,000	0.004 U 0.004 U	0.0097 U 0.0097 U	0.0049 U 0.0049 U	0.0045 U	0.0041 U 0.0041 U	0.0044 U 0.0044 U	0.0042 U 0.0042 U	0.0056 U	0.0067 U	0.0015 J 0.0047 U	0.0055 U	0.0039 U 0.0059 U	0.0072 0.0053 U	0.0042 U	2 J 0.0046 U
Trichloroethene	mg/kg	6	0.004 U 0.004 U	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0044 U 0.0044 U	0.0042 U 0.0042 U	0.0056 U	0.0067 U	0.0047 U 0.0047 U	0.0055 U	0.0059 U	0.0053 U	0.0042 U 0.0042 U	0.0046 U
Vinyl chloride	mg/kg	1.7	0.004 U	0.0097 U	0.0049 U	0.0045 U	0.0041 U	0.0044 U	0.0042 U	0.0056 U	0.0067 U	0.0047 U	0.0055 U	0.0059 U	0.0053 U	0.0042 U	0.0046 U
Xylenes	mg/kg	2,800	0.012 U	0.029 U	0.015 U	0.013 U	0.012 U	0.013 U	0.013 U	0.017 U	0.02 U	0.014 U	0.016 U	0.018 U	0.059	0.46	0.33
Semi-Volatile Organic Compounds^		,															
1,1-Biphenyl	mg/kg	200	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
2,4-Dimethylphenol	mg/kg	16,000	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
2-Methylnaphthalene	mg/kg	3,000	0.0044 J	0.094	0.0078 U	0.0033 J	0.024	0.14	0.3	0.18	0.13	0.059	0.079	0.01	0.22	0.065	0.1
2-Methylphenol	mg/kg	41,000	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
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	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
Acenaphthene	mg/kg	45,000	0.0045 J	0.097	0.0021 J	0.0027 J	0.11	0.16	0.093	1.2	0.037	0.02	0.45	0.004 J	0.081	0.011	0.027
Acenaphthylene	mg/kg	45,000	0.0062 J	0.13	0.011	0.039	0.16	0.044	0.067	0.26	0.096	0.031	0.027	0.008 U	0.57	0.0086	0.033
Acetophenone	mg/kg	120,000	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
Anthracene	mg/kg	230,000	0.0076 J 0.024	0.86	0.032	0.083	0.71	0.43	0.21 0.77	1.1 5.7	0.15	0.091 0.25	0.22 2.3	0.0037 J 0.0084	2.2 3.7	0.08 0.065	0.31 0.28
Benz[a]anthracene Benzaldehyde	mg/kg mg/kg	120,000	0.024 N/A	3.0 N/A	0.091 N/A	0.28 N/A	N/A	0.77 N/A	0.77 N/A	5.7 N/A	0.44 N/A	0.25 N/A	2.3 N/A	0.0084 N/A	3.7 N/A	0.065 N/A	0.28 N/A
Benzo[a]pyrene	mg/kg	2.1	0.028	3.1	0.08	0.23	1.4	0.58	0.79	11.2	0.39	0.24	5.3	0.0095	3.1	0.041	0.19
Benzo[b]fluoranthene	mg/kg	21	0.045	4.4	0.18	0.4	2.7	0.85	1.1	11.5	0.74	0.24	6.4	0.012	7.3	0.083	0.37
Benzo[g,h,i]perylene	mg/kg		0.0091	1.2	0.048	0.13	0.5	0.2	0.31	5.6	0.12	0.06	1.3	0.0063 J	0.8	0.021	0.097
Benzo[k]fluoranthene	mg/kg	210	0.035	1.4	0.16	0.15	0.95	0.3	0.48	5.4	0.57	0.34	2.5	0.0054 J	5.6	0.059	0.27
bis(2-Ethylhexyl)phthalate	mg/kg	160	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
Caprolactam	mg/kg	400,000	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
Carbazole	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
Chrysene	mg/kg	2,100	0.018	3	0.085	0.26	1.3	0.62	0.71	5	0.36	0.25	2.3	0.011	3.2	0.052	0.24
Dibenz[a,h]anthracene	mg/kg	2.1	0.0026 J	0.57	0.015	0.048	0.21	0.082	0.13	2.1	0.052	0.027	0.77	0.0018 J	0.31	0.0063 J	0.03
Diethylphthalate	mg/kg	660,000	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
Fluoranthene	mg/kg	30,000 30,000	0.049 0.0048 J	7.4	0.23	0.65	3.9	2.1	1.2	6.8	0.85	0.44	2.2	0.019	<u> </u>	0.23	0.88
Fluorene Indeno[1,2,3-c,d]pyrene	mg/kg mg/kg	21	0.0048 J 0.008	0.16	0.0091 0.047	0.022	0.18 0.58	0.22 0.21	0.12 0.31	0.75 5.6	0.068	0.063 0.068	0.085	0.0041 J 0.0056 J	0.9	0.12 0.021	0.34 0.099
Naphthalene	mg/kg mg/kg	8.6	0.008	0.27	0.047	0.13	0.58	0.54	0.31	0.32	0.12	0.068	0.18	0.0056 J 0.14	1.1	2.1	0.099
N-Nitrosodiphenylamine	mg/kg	470	N/A	0.27 N/A	N/A	0.02 N/A	0.080 N/A	0.54 N/A	0.35 N/A	0.32 N/A	0.55 N/A	0.37 N/A	0.18 N/A	0.14 N/A	1.1 N/A	2.1 N/A	N/A
Phenanthrene	mg/kg	175	0.031	4.6	0.088	0.24	1.7	1.5	0.71	5.2	0.68	0.33	0.8	0.017	5.9	0.42	1.4
Phenol	mg/kg	250,000	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
Pyrene	mg/kg	23,000	0.035	5.7	0.17	0.5	3.4	1.4	1.1	6.3	0.66	0.36	2.1	0.016	6.5	0.14	0.58
PCBs							•	•			·						
Aroclor 1248	mg/kg	0.94	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
Aroclor 1254	mg/kg	0.97	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
Aroclor 1260	mg/kg	0.99	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
PCBs (total)	mg/kg	0.97	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
TPH/Oil and Grease																	
Diesel Range Organics	mg/kg	6,200	21.9	83.8	20.2	15.1	27	65.2	275	134	274	587	269	38.9	243	16.9	26.7
Gasoline Range Organics	mg/kg	6,200	8.9 U	17.1 U	11.6 U	13.5 U	9.5 U	9.1 U	10.2 U	15.3 U	12.7 U	11.8 U	8.3 U	11 U	7.6 U	64.3	78.4
Oil and Grease	mg/kg	6,200	578	462	582	521	272	1,420	1,880	1,500	2,890	3,020	1,410	1,560	646	509	538

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank. UJ: This analye was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

·	1	1		411 024U CD 5*	4 1 1 0 2 4 LL CD 10*	A 11 02 4U CD 15*	A 11 02 4H CD 4*	411 024LCD 5*	4 11 02 4L CD 10*	A 11 024LCD 15	* A 11 0241 CD 5*	4 11 0241 CD 10*	A 11 00 4KK CD 4 5*	A 11 024K CD 5*	A 11 024K CD 10	* A 11 0241 CD 2*	411 024L CD 5*	411.024L CD 10*
Parameter	Units	PAL	A11-024HH-SB-4* 8/23/2018	6/14/2018	A11-024H-SB-10* 6/14/2018	A11-024H-SB-15* 6/14/2018	8/23/2018	6/14/2018	6/14/2018	A11-024I-SB-15 ³ 6/14/2018	6/15/2018	6/15/2018	A11-024KK-SB-4.5* 8/23/2018	6/15/2018	A11-024K-SB-10 6/15/2018	* A11-024L-SB-3* 6/15/2018	A11-024L-SB-5* 6/15/2018	A11-024L-SB-10* 6/15/2018
Volatile Organic Compounds	I		8/23/2018	0/14/2018	0/14/2018	0/14/2018	8/23/2018	0/14/2018	0/14/2018	0/14/2018	0/13/2018	0/13/2018	8/23/2018	0/15/2018	0/13/2018	0/15/2018	0/15/2018	0/13/2010
1,1-Dichloroethane	mg/kg	16	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0042 U	0.0057 U	0.0057 U	0.0053 U	0.005 U	0.0049 U	0.0043 U
1,2-Dibromo-3-chloropropane	mg/kg	0.064	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0042 U	0.0057 U	0.0057 U	0.0053 U	0.005 U	0.0049 U	0.0043 U
1,2-Dichloroethene (Total)	mg/kg	2,300	0.014 U	0.014 U	0.0086 U	0.0081 U	0.0081 U	0.0087 U	0.0076 U	0.0085 U	0.011 U	0.0083 U	0.011 U	0.011 U	0.011 U	0.005 C	0.0098 U	0.0086 U
2-Butanone (MEK)	mg/kg	190,000	0.014 U	0.017	0.0086 U	0.0081 U	0.0081 U	0.0056 J	0.0076 U	0.0085 U	0.011 U	0.0066 J	0.0099 J	0.011 U	0.011	0.01 U	0.0046 J	0.0043 J
4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.014 U	0.014 U	0.0086 U	0.0081 U	0.0081 U	0.0087 U	0.0076 U	0.0085 U	0.011 U	0.0083 U	0.011 U	0.011 U	0.011 U	0.01 U	0.0098 U	0.0086 U
Acetone	mg/kg	670,000	0.014 U	0.26	0.098	0.034	0.0081 U	0.18	0.025	0.072	0.14	0.11	0.024	0.27	0.35	0.11	0.19	0.11
Benzene	mg/kg	5.1	0.007 U	16.8	1.1	0.96	0.0041 U	0.013	0.034	0.0024 J	0.0053 U	48.4	0.42	0.0047 J	14.5	0.005 U	0.0024 J	0.02
Carbon disulfide	mg/kg	3,500	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0042	0.0043 U	0.0035 J	0.0042 U	0.015	0.0034 J	0.0029 J	0.005 U	0.0049 U	0.0024 J
Chloroform	mg/kg	1.4	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0042 U	0.0057 U	0.0057 U	0.0053 U	0.005 U	0.0049 U	0.0043 U
cis-1,2-Dichloroethene	mg/kg	2,300	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0042 U	0.0057 U	0.0057 U	0.0053 U	0.005 U	0.0049 U	0.0043 U
Cyclohexane	mg/kg	27,000	0.014 U	0.014 U	0.0086 U	0.0081 U	0.0081 U	0.0087 U	0.0076 U	0.0085 U	0.011 U	0.0025 J	0.0074 J	0.011 U	0.011 U	0.01 U	0.0098 U	0.0086 U
Ethylbenzene	mg/kg	25	0.007 U	0.013	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0046	0.0043 U	0.0053 U	0.013	0.0025 J	0.0057 U	0.013	0.005 U	0.0049 U	0.0043 U
Isopropylbenzene	mg/kg	9,900	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0015 J	0.003 J	0.0057 U	0.0035 J	0.005 U	0.0049 U	0.0043 U
Methyl Acetate	mg/kg	1,200,000	0.07 U	0.04 J	0.015 J	0.0025 J	0.041 U	0.044 U	0.038 U	0.0086 J	0.041 J	0.0097 J	0.057 U	0.057 U	0.016 J	0.0071 J	0.049 U	0.0089 J
Methylene Chloride	mg/kg	1,000	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U 0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0042 U	0.0057 U	0.0057 U	0.0053 U	0.005 U 0.005 U	0.0049 U	0.0043 U
Styrene Tetrachloroethene	mg/kg mg/kg	35,000 100	0.007 U 0.007 U	0.019 0.0068 U	0.0043 U 0.0043 U	0.004 U 0.004 U	0.0041 U 0.0041 U	0.0044 U 0.0044 U	0.0038 U 0.0038 U	0.0043 U 0.0043 U	0.0053 U 0.0053 U	0.0042 U 0.0042 U	0.0057 U 0.0057 U	0.0057 U 0.0057 U	0.0053 U 0.0053 U	0.005 U	0.0049 U 0.0049 U	0.0043 U 0.0043 U
Toluene	mg/kg mg/kg	47.000	0.007 U	11.8	0.0043 0	0.004 0	0.0041 U	0.0044 U 0.0034 J	0.0038 U 0.0038 U	0.0043 U 0.0043 U	0.0033 U	0.0042 0	0.00370	0.0037 U 0.0057 U	0.0033 0	0.005 U	0.0049 U 0.0049 U	0.0043 U 0.0043 U
trans-1,2-Dichloroethene	mg/kg	23,000	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0034 J 0.0044 U	0.0038 U	0.0043 U	0.0010 J	0.0042 U	0.0014 0.0057 U	0.0057 U	0.0027 0.0053 U	0.005 U	0.0049 U	0.0043 U
Trichloroethene	mg/kg	6	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0042 U	0.0057 U	0.0057 U	0.0053 U	0.005 U	0.0049 U	0.0043 U
Vinyl chloride	mg/kg	1.7	0.007 U	0.0068 U	0.0043 U	0.004 U	0.0041 U	0.0044 U	0.0038 U	0.0043 U	0.0053 U	0.0042 U	0.0057 U	0.0057 U	0.0053 U	0.005 U	0.0049 U	0.0043 U
Xylenes	mg/kg	2,800	0.021 U	0.51	0.029	0.021	0.012 U	0.004 J	0.011 U	0.013 U	0.016 U	0.087	0.019	0.017 U	0.22	0.015 U	0.015 U	0.013 U
Semi-Volatile Organic Compounds^			•	•										•				
1,1-Biphenyl	mg/kg	200	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
2,4-Dimethylphenol	mg/kg	16,000	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
2-Methylnaphthalene	mg/kg	3,000	0.075	763	0.021	0.1	0.0055 J	0.19	0.0067 J	0.0061 J	0.0043 J	1	0.3	0.028	32.7	0.039	0.027	0.036
2-Methylphenol	mg/kg	41,000	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
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	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
Acenaphthene	mg/kg	45,000	0.028	541	0.0065 J	0.036	0.0063 J	0.16	0.0015 J	0.0024 J	0.0012 J	2.3	0.31	0.022	36	0.026	0.0064 J	0.43
Acenaphthylene	mg/kg	45,000	0.018	950	0.03	0.082	0.009	0.16	0.0074 U	0.008 U	0.0014 J	5.6	0.12	0.0029 J	94.3	0.036	0.0042 J	0.17
Acetophenone	mg/kg	120,000	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
Anthracene	mg/kg	230,000	0.032	3,820	0.077	0.2	0.015	0.51	0.0059 J	0.009	0.0049 J	15.8	0.35	0.024	601	0.1	0.007 J	0.44
Benz[a]anthracene Benzaldehvde	mg/kg mg/kg	21 120,000	0.13 N/A	4,330 N/A	0.094 N/A	0.23 N/A	0.028 N/A	1 N/A	0.0058 J N/A	0.0086 N/A	0.0074 J N/A	26.8 N/A	1.3 N/A	0.031 N/A	596 N/A	0.36 N/A	0.0067 J N/A	0.92 N/A
Benzo[a]pyrene	mg/kg	2.1	0.12	3.880	0.078	0.19	0.045	0.94	0.0032 J	0.0038 J	0.0056 J	13.2	1.4	0.041	412	0.31	0.0035 J	0.74
Benzo[b]fluoranthene	mg/kg	2.1	0.12	7,820	0.14	0.15	0.043	2.3	0.0068 J	0.01	0.0030 3	26.1	3.5	0.058	689	0.49	0.0033 J	0.94
Benzo[g,h,i]perylene	mg/kg	21	0.058	648	0.037	0.094	0.021	0.26	0.0018 J	0.0024 J	0.0043 J	3.3	0.56	0.030	192	0.09	0.002 J	0.34
Benzo[k]fluoranthene	mg/kg	210	0.23	6.030	0.099	0.081	0.079	1.5	0.0047 J	0.0072 J	0.0084	7	3.2	0.02	230	0.13	0.0055 J	0.31
bis(2-Ethylhexyl)phthalate	mg/kg	160	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
Caprolactam	mg/kg	400,000	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
Carbazole	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
Chrysene	mg/kg	2,100	0.28	3,120	0.068	0.17	0.028	0.8	0.0039 J	0.0066 J	0.0049 J	12.5	1.6	0.035	499	0.3	0.004 J	0.64
Dibenz[a,h]anthracene	mg/kg	2.1	0.013	256	0.011	0.029	0.0067 J	0.096	0.0074 U	0.008 U	0.0076 U	1.5	0.17	0.0094	64.1	0.039	0.0094 U	0.12
Diethylphthalate		660,000	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
Fluoranthene	mg/kg	30,000	0.36	10,100	0.23	0.59	0.037	2.1	0.016	0.026	0.017	80.1	2.7	0.077	1,790	0.66	0.015	2.5
Fluorene	mg/kg	30,000	0.029	2,640	0.052	0.18	0.0023 J	0.37	0.0097	0.013	0.0058 J	40.5	0.37	0.012	358	0.032	0.011	0.059
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.035	701	0.038	0.089	0.017	0.26	0.0016 J	0.0024 J	0.0036 J	3.9	0.52	0.031	208	0.1	0.0018 J	0.36
Naphthalene	mg/kg	8.6	0.62	10,200	0.38	1.5	0.012	1.3 N/A	0.098	0.068	0.039	9.5 N/A	0.31	0.37	416 N/A	0.16	0.55	0.59
N-Nitrosodiphenylamine Phenanthrene	mg/kg	470	N/A 0.16	N/A 11.600	N/A 0.25	N/A 0.75	N/A 0.027	N/A 1.9	N/A 0.028	N/A 0.046	N/A 0.022	N/A 116	N/A 2.1	N/A 0.12	N/A 3,350	N/A 0.44	N/A 0.023	N/A 0.36
Phenol	mg/kg mg/kg	250,000	0.16 N/A	N/A	0.25 N/A	0.75 N/A	0.027 N/A	1.9 N/A	0.028 N/A	0.046 N/A	0.022 N/A	116 N/A	2.1 N/A	0.12 N/A	3,350 N/A	0.44 N/A	0.023 N/A	0.36 N/A
Pyrene	mg/kg	230,000	0.47	7,420	0.17	0.43	0.038	2.1	0.011	0.015	0.012	54.9	2.6	0.063	1,240	0.57	0.011	1.5
PCBs	IIIg/Kg	23,000		/,740	0.17	0.73	0.000	4.1	0.011	0.013	0.012	57,7	2.0	0.005	1,240	0.57	0.011	1.0
Aroclor 1248	mg/kg	0.94	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
Aroclor 1254	mg/kg	0.94	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 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Aroclor 1260	mg/kg	0.99	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
PCBs (total)	mg/kg	0.97	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
TPH/Oil and Grease																		
Diesel Range Organics	mg/kg	6,200	470	28,900	13	31.1	43.3	166	4.9 J	5.8 J	22.5	1,540	2,830	21.9	6,720	123	8.7 J	113
Gasoline Range Organics	mg/kg	6,200	15.1 U	95.5	8.8 U	9.1 U	10.2 U	14.8 U	8 U	10.1 U	12.2 U	99.6	14.9	6.9 U	38.4	9.9 U	10.4 U	8.4 U
Oil and Grease	mg/kg	6,200	6,290	44,100	394	361	1,350	1,040	823	443	213	2,010	14,300	511	9,720	1,270	748	615
							,					,						

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank. UJ: This analye was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

·	1	1	A 11 0240 0 4 SD 4	1* A 11 02404 CD 5*	A 11 02404 CD 10*	A 11 00 414 CD 15*	A 11 024N CD 2*	411 02400 SD 5	4 11 0240 CD 2*	A 11 024D CD 5*	A 11 024D CD 10*	411 024D CD 15	4 11 0240 CD 5*	411.0240 SP 10*	A 11 0240 CD 15	4 11 004 CD 1*	A 11 024 CD 5*	411.024 SD 0*
Parameter	Units	PAL	8/23/2018	4* A11-024M-SB-5* 6/15/2018	6/15/2018	A11-024M-SB-15* 6/15/2018	A11-024N-SB-2* 8/8/2018	A11-02400-SB-5* 8/23/2018	A11-024O-SB-3* 8/9/2018	A11-024P-SB-5* 8/9/2018	A11-024P-SB-10* 8/9/2018	A11-024P-SB-153 8/9/2018	* A11-024Q-SB-5* 8/9/2018	8/9/2018	A11-024Q-SB-15* 8/9/2018	A11-024-SB-1* 8/9/2016	A11-024-SB-5* 6/14/2018	8/9/2016
Volatile Organic Compounds	II		0/25/2010	0/15/2010	0/15/2010	0/15/2010	0/0/2010	0/25/2010	0/9/2010	0/9/2010	0/9/2010	0/9/2010	0/9/2010	0/9/2010	0/9/2010	0/9/2010	0/14/2010	0/9/2010
1,1-Dichloroethane	mg/kg	16	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
1,2-Dibromo-3-chloropropane	mg/kg	0.064	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
1,2-Dichloroethene (Total)	mg/kg	2,300	0.011 U	0.011 U	0.012 U	0.81 U	0.0087 U	0.01 U	0.01 U	0.009 U	0.0098 U	0.0085 U	0.011 U	6.5 U	5.7 U	0.016 U	0.0092 U	0.012 U
2-Butanone (MEK)	mg/kg	190,000	0.011 U	0.011 U	0.012 U	0.81 U	0.0087 U	0.0031 J	0.027	0.016	0.013	0.0096	0.011 U	6.5 U	5.7 U	0.016 U	0.0092 U	0.014
4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.011 U	0.011 U	0.012 U	0.81 U	0.0087 U	0.01 U	0.01 U	0.009 U	0.0098 U	0.0085 U	0.011 U	6.5 U	5.7 U	0.016 U	0.0092 U	0.012 U
Acetone	mg/kg	670,000	0.0071 J	0.026	0.19	0.81 U	0.17	0.023	0.64 U	0.51 U	0.77 U	0.046	0.25	6.5 U	5.7 U	0.016 U	0.12	0.068
Benzene	mg/kg	5.1	0.0054 U	0.0056 U	12.1	588	0.0044 U	0.02	0.055	0.0045 U	0.028	0.0078	0.0027 J	551	170	0.0038 J	0.0046 U	51.9
Carbon disulfide	mg/kg	3,500	0.0036 J	0.0029 J	0.006 U	0.67	0.0044 U	0.0034 J	0.012	0.0045 U	0.0022 J	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.016
Chloroform	mg/kg	1.4	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
cis-1,2-Dichloroethene	mg/kg	2,300	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
Cyclohexane Ethylbenzene	mg/kg mg/kg	27,000 25	0.011 U 0.0054 U	0.011 U 0.0056 U	0.012 U 0.0033 J	0.21 J 3.8	0.0087 U 0.0044 U	0.01 U 0.022	0.01 U 0.0052 U	0.009 U 0.0045 U	0.0098 U 0.0022 J	0.0085 U 0.0043 U	0.011 U 0.0054 U	6.5 U 1.6 J	5.7 U 2.8 U	0.016 U 0.0079 U	0.0092 U 0.0046 U	0.012 0.081
Isopropylbenzene	mg/kg	9,900	0.0054 U	0.0056 U	0.0033 J 0.006 U	<u> </u>	0.0044 U 0.0044 U	0.022	0.0032 U 0.0052 U	0.0045 U	0.0022 J 0.0049 U	0.0043 U 0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U 0.0046 U	0.081
Methyl Acetate	mg/kg	1,200,000	0.0034 U 0.054 U	0.056 U	0.058 J	0.33 J	0.044 U	0.051 U	0.0032 0	0.043 J	0.0049 U	0.043 U	0.054 U	32.5 U	28.3 U	0.0079 U	0.0040 0	0.06 U
Methylene Chloride	mg/kg	1,000	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	20.5 C	0.0079 U	0.0046 U	0.006 U
Styrene	mg/kg	35,000	0.0054 U	0.0056 U	0.0041 J	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.0039 J
Tetrachloroethene	mg/kg	100	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
Toluene	mg/kg	47,000	0.0017 J	0.0056 U	0.12	207	0.0044 U	0.3	0.0092	0.0045 U	0.053	0.0043 U	0.0054 U	67.8	31.6	0.0079 U	0.0046 U	14.7
trans-1,2-Dichloroethene	mg/kg	23,000	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
Trichloroethene	mg/kg	6	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
Vinyl chloride	mg/kg	1.7	0.0054 U	0.0056 U	0.006 U	0.4 U	0.0044 U	0.0051 U	0.0052 U	0.0045 U	0.0049 U	0.0043 U	0.0054 U	3.3 U	2.8 U	0.0079 U	0.0046 U	0.006 U
Xylenes	mg/kg	2,800	0.016 U	0.017 U	0.09	194	0.013 U	0.32	0.0087 J	0.013 U	0.041	0.013 U	0.016 U	73.6	23	0.024 U	0.014 U	20.7
Semi-Volatile Organic Compounds^	1						1											
1,1-Biphenyl	mg/kg	200	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	0.073 U	N/A	51.2
2,4-Dimethylphenol	mg/kg	16,000	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	0.073 U	N/A	9.5
2-Methylnaphthalene	mg/kg	3,000	0.78 N/A	0.015 N/A	10.3 N/A	480 N/A	0.013 N/A	4.3 N/A	3 N/A	0.0085	0.64 N/A	0.0026 J N/A	0.006 J N/A	688 N/A	451 N/A	0.0052 J 0.073 U	0.95 N/A	117
2-Methylphenol 3&4-Methylphenol(m&p Cresol)	mg/kg mg/kg	41,000 41,000	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 N/A	N/A N/A	N/A N/A	0.073 U 0.15 U	N/A N/A	5 11.9
Acenaphthene	mg/kg	45,000	0.97	0.0046 J	9.9	116	0.084	3.3	13.3	0.017	0.23	0.0019 J	0.0082 J	320	149	0.0028 J	1.7	26.4
Acenaphthylene	mg/kg	45,000	3.3	0.0040 J	37.2	92.4	0.0072 U	2.2	56.6	0.017	0.091	0.0019 J	0.0011 J	452	221	0.023 3	0.43	48.1
Acetophenone	mg/kg	120,000	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	0.073 U	N/A	12.7
Anthracene	mg/kg	230,000	6.1	0.0067 J	133	798	0.056	7.2	257	0.019	0.082	0.0057 J	0.011	5,270	916	0.051	6.4	303
Benz[a]anthracene	mg/kg	21	11	0.018	175	792	0.35	8.6	295	0.038	0.14	0.024	0.0066 J	1,620	716	0.14	8.8	253
Benzaldehyde	mg/kg	120,000	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	0.073 U	N/A	0.88 U
Benzo[a]pyrene	mg/kg	2.1	11.1	0.035	145	492	0.67	5.7	283	0.036	0.14	0.023	0.0046 J	1,200	535	0.16	8	163
Benzo[b]fluoranthene	mg/kg	21	25.2	0.048	350	866	0.78	12.4	859	0.099	0.23	0.041	0.0092	7,640	1,610	0.34	13.2	227
Benzo[g,h,i]perylene	mg/kg	210	3.3	0.036	73.9	241	0.53	1.9	8	0.017	0.086	0.014	0.0045 J	121	56.1	0.076	2.3	65.9
Benzo[k]fluoranthene	mg/kg	210	8.2	0.034	79.9	268	0.31	11.3	766	0.089	0.2 N/A	0.036	0.0082 J	6,810	1,440	0.12 0.073 U	10.9	108 0.88 U
bis(2-Ethylhexyl)phthalate Caprolactam	mg/kg mg/kg	160 400,000	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 N/A	N/A N/A	N/A N/A	0.073 U 0.18 U	N/A N/A	2.2 U
Carbazole	mg/kg	400,000	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 N/A	N/A N/A	N/A N/A	0.18 U	N/A N/A	75
Chrysene	mg/kg	2,100	9.7	0.018	136	631	0.34	12.5	299	0.051	0.13	0.021	0.0069 J	1,580	688	0.22	6.8	236
Dibenz[a,h]anthracene	mg/kg	2,100	1.3	0.0077 J	13.7	85.1	0.17	0.61 J	4.6	0.0081 U	0.027	0.0044 J	0.0085 U	42.5	8.3 U	0.022	0.62	23.0
Diethylphthalate		660,000	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	0.073 U	N/A	0.88 U
Fluoranthene	mg/kg	30,000	36	0.021	598	3,770	0.38	28.9	670	0.075	0.25	0.047	0.024	9,370	3,010	0.23	32	639
Fluorene	mg/kg	30,000	3.2	0.0031 J	48.7	938	0.021	8	70.3	0.015	0.48	0.004 J	0.014	3,930	962	0.015	2	353
Indeno[1,2,3-c,d]pyrene	mg/kg	21	3.5	0.025	76.8	264	0.43	1.9	10.6	0.012	0.076	0.013	0.0034 J	136	62.2	0.083	2.1	79.8
Naphthalene	mg/kg	8.6	3.8	0.019	87.8	5,880	0.046	30.7	11.3	0.017	11	0.018	0.014	15,000	7,780	0.047	0.93	621
N-Nitrosodiphenylamine	mg/kg	470	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	0.073 U	N/A	0.88 U
Phenanthrene Dia L	mg/kg	250.000	15.3	0.029	357	5,340	0.2	31	456	0.076	0.55	0.025	0.047	14,400	4,420	0.1	37.9	968
Phenol	mg/kg	250,000	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	0.02 J	N/A	8.2
Pyrene PCPs	mg/kg	23,000	28.7	0.025	516	1,550	0.36	31.6	557	0.059	0.25	0.037	0.021	5,940	1,470	0.2	31.7	615
PCBs Aroclor 1248	mg/kg	0.94	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	0.0559 U	N/A	N/A
Aroclor 1248 Aroclor 1254	mg/kg mg/kg	0.94	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 N/A	N/A N/A	N/A N/A	0.0559 U	N/A N/A	N/A N/A
Aroclor 1260	mg/kg	0.97	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 N/A	N/A N/A	N/A N/A	0.0559 U	N/A N/A	N/A N/A
PCBs (total)	mg/kg	0.97	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 N/A	N/A N/A	N/A N/A	0.0559 U	N/A N/A	N/A N/A
TPH/Oil and Grease																		
Diesel Range Organics	mg/kg	6,200	593	85	2,520	12,700	34	30,400	2,430	36.4	124	15	15.1	22,800	16,200	13.3	88.3	7,640
Gasoline Range Organics	mg/kg	6,200	9.5 U	15.3 U	29.9	2,220	11.4 U	37.4	11.6 U	9.8 U	14.8 U	8.7 U	8.3 U	1,500	1,060	18.5 U	9.9 U	214
Oil and Grease	mg/kg	6,200	813	358	3,330	8,280	205	54,200	20,100	210	527	238	930	21,100	13,300	618	2,930	21,300

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

·	1		A 11 024 SP 10*	A 11 024 SP 10*	A 11 024 SP 15*	A11 0245 SD 4*	A11 02411 SP 5*	A11 024V SD 2*	A 11 024V SP 4*	A11-024W-SB-1.5*	* A11 024V SP 2*	A 11 024V SP 4*	A11-025-SB-1	A11-025-SB-4	A11-027-SB-11	A11-027-SB-15	A11-029-SB-1	A11-029-SB-5	A11-030-SB-1
Parameter	Units	PAL	6/14/2018	8/9/2016	6/14/2018	8/15/2018	8/15/2018	8/16/2018	8/16/2018	8/17/2018	8/17/2018	8/17/2018	8/10/2016	8/10/2016	8/11/2016	8/11/2016	8/10/2016	8/10/2016	8/10/2016
Volatile Organic Compounds	<u>u</u>	II I		0.7.2010															
1,1-Dichloroethane	mg/kg	16	0.0049 U	N/A	0.0054 U	0.011 U	0.0041 U	0.0053 U	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
1,2-Dibromo-3-chloropropane	mg/kg	0.064	0.0049 U	N/A	0.0054 U	0.011 U	0.0042 U	0.0053 U	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
1,2-Dichloroethene (Total)	mg/kg	2,300	0.0098 U	N/A	0.011 U	0.022 U	0.0082 U	0.011 U	0.0082 U	0.0093 U	0.0083 U	0.0091 U	0.011 U	0.01 U	0.01 U	0.011 U	0.012 U	0.012 U	0.011 U
2-Butanone (MEK)	mg/kg	190,000	0.011	N/A	0.011 U	0.012 J	0.0055 J	0.011 U	0.0082 U	0.0093 U	0.0083 U	0.0091 U	0.011 U	0.01 U	0.0084 J	0.0054 J	0.0047 J	0.012 U	0.011 U
4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.0098 U	N/A	0.011 U	0.022 U	0.0083 U	0.011 U	0.0082 U	0.0093 U	0.0083 U	0.0091 U	0.011 U	0.01 U	0.01 U	0.011 U	0.012 U	0.012 U	0.011 U
Acetone	mg/kg	670,000	0.65 U	N/A	0.1	0.44	0.11	0.0076 J	0.0088	0.0093 U	0.013	0.0091 U	0.011 U	0.006 JB	0.039 B	0.023 B	0.014 B	0.0079 B	0.0059 B
Benzene	mg/kg	5.1	7.4	19.1	1.9	113	2.8	0.0053 U	0.067	0.0047 U	0.0042 U	0.16	0.0054 U	0.0052 U	0.0037 J	0.11	0.0029 J	0.015	0.0054 U
Carbon disulfide	mg/kg	3,500	0.013	N/A	0.0054 U	0.0086 J	0.0042 U	0.0053 U	0.0034 J	0.0047 U	0.0042 U	0.004 J	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Chloroform	mg/kg	1.4	0.0049 U	N/A	0.0054 U	0.012	0.0042 U	0.0023 J	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
cis-1,2-Dichloroethene	mg/kg	2,300 27,000	0.0049 U	N/A	0.0054 U	0.011 U	0.0041 U	0.0053 U	0.0041 U	0.0047 U 0.0093 U	0.0042 U 0.0083 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Cyclohexane Ethylbenzene	mg/kg mg/kg	27,000	0.012	N/A N/A	0.011 U 0.0051 J	0.022 U 0.12	0.0056 J 0.02	0.011 U 0.0053 U	0.0082 U 0.012	0.0093 U 0.0047 U	0.0083 U 0.0042 U	0.0091 U 0.018	0.011 U 0.0054 U	0.01 U 0.0052 U	0.01 U 0.005 U	0.011 U 0.0012 J	0.012 U 0.0061 U	0.012 U 0.0059 U	0.011 U 0.0054 U
Isopropylbenzene	mg/kg	9,900	0.025	N/A N/A	0.0054 U	0.014	0.02 0.0018 J	0.0053 U	0.0024 J	0.0047 U	0.0042 U	0.018 0.0029 J	0.0054 U	0.0052 U	0.005 U	0.0012 J 0.0054 U	0.0061 U	0.0059 U	0.0054 U
Methyl Acetate	mg/kg	1,200,000	0.066	N/A	0.012 J	0.11 U	0.042 U	0.053 U	0.041 U	0.047 U	0.042 U	0.045 U	0.054 U	0.052 U	0.05 U	0.054 U	0.061 R	0.059 R	0.054 R
Methylene Chloride	mg/kg	1,000	0.0049 U	N/A	0.0054 U	0.29	0.0042 U	0.0053 U	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Styrene	mg/kg	35,000	0.0049 U	N/A	0.0054 U	0.013	0.0042 U	0.0053 U	0.0027 J	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Tetrachloroethene	mg/kg	100	0.0049 U	N/A	0.0054 U	0.012	0.0042 U	0.0053 U	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Toluene	mg/kg	47,000	2	N/A	0.0022 J	138	12.8	0.0053 U	5.9	0.0047 U	0.0042 U	0.3	0.0054 U	0.0052 U	0.005 U	0.0023 J	0.0025 J	0.011	0.0018 J
trans-1,2-Dichloroethene	mg/kg	23,000	0.0049 U	N/A	0.0054 U	0.011 U	0.0041 U	0.0053 U	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Trichloroethene	mg/kg	6	0.0049 U	N/A	0.0054 U	0.03	0.0042 U	0.0053 U	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Vinyl chloride	mg/kg	1.7	0.0049 U	N/A	0.0054 U	0.011 U	0.0042 U	0.0053 U	0.0041 U	0.0047 U	0.0042 U	0.0045 U	0.0054 U	0.0052 U	0.005 U	0.0054 U	0.0061 U	0.0059 U	0.0054 U
Xylenes	mg/kg	2,800	13.6	N/A	0.028	54.7	0.38	0.016 U	0.15	0.014 U	0.013 U	0.35	0.016 U	0.016 U	0.015 U	0.0033 J	0.018 U	0.012 J	0.0031 J
Semi-Volatile Organic Compounds^	1	0			1														
1,1-Biphenyl	mg/kg	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.021 J	0.029 J	0.053 J	0.079 U	0.27 J	0.02 J
2,4-Dimethylphenol	mg/kg	16,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.074 U	0.071 U	0.045 J	0.079 U	0.087 J	0.073 U
2-Methylnaphthalene	mg/kg	3,000	173	35.3	0.038	674	0.89	0.12	496	0.0093	0.11	6.9	0.079 U 0.078 U	0.075 0.074 U	0.066	0.20 0.077 U	0.047 0.079 U	2 0.055 J	0.025
2-Methylphenol 3&4-Methylphenol(m&p Cresol)	mg/kg mg/kg	41,000	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	0.078 U 0.16 U	0.074 U 0.15 U	0.071 U 0.14 U	0.039 J	0.079 U 0.16 U	0.055 J 0.1 J	0.073 U 0.15 U
Acenaphthene	mg/kg	45,000	44.2	6	0.0065 J	425	0.2 J	0.65	192	0.0023 J	1.1	5.4	0.10 U	0.13 0	0.055	0.39 3	0.10 0	1.3	0.049
Acenaphthylene	mg/kg	45,000	101	12.9	0.0077 J	578	0.2 J 0.11 J	0.05	672	0.0023 J	0.027	8.5	0.000 J 0.047 J	0.039 J	0.033	0.32	0.01 0.008 J	1.1	0.049
Acetophenone	mg/kg	120,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.074 U	0.071 U	0.08	0.079 U	0.29 J	0.073 U
Anthracene	mg/kg	230,000	563	95.3	0.068	2,110	0.39 J	0.19	1,410	0.0024 J	0.53	101	0.049 J	0.2	0.088	3.4	0.13	4.3	0.068
Benz[a]anthracene	mg/kg	21	415	60.4	0.033	1,880	0.75 U	1.6	1,650	0.0099	3.1	116	0.23	0.61	0.71	11.6	1.2	5.7	0.39
Benzaldehyde	mg/kg	120,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.074 U	0.071 U	0.037 J	0.079 UJ	0.085 UJ	0.073 UJ
Benzo[a]pyrene	mg/kg	2.1	296	40.9	0.019	1,460	0.81	3.8	1,380	0.018	6.7	95.8	0.25	0.89	1.3	10.4	3.1	4.5	0.71
Benzo[b]fluoranthene	mg/kg	21	478	58.4	0.038	2,570	2.1	5.4	2,500	0.029	10.2	179	0.36	1.6	1.3	30.3	3.6	6.3	0.94
Benzo[g,h,i]perylene	mg/kg		68.1	15.9	0.0093	649	0.45 J	1.3	601	0.018	1.4	5.5	0.11	0.48	0.51	2.5	1.2	2.2	0.41
Benzo[k]fluoranthene	mg/kg	210	163	23.5	0.027	2,290	1.9	4.8	2,230	0.026	9.1	160	0.16	1.4	0.69	5.3	0.98	2.5	0.37
bis(2-Ethylhexyl)phthalate	mg/kg	160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.044 J	0.69	0.083	0.079 UJ	0.085 UJ	0.079 J
Caprolactam	mg/kg	400,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.2 U	0.19 U	0.18 U	0.19 U	0.2 U	0.21 U	0.18 U
Carbazole	mg/kg	2 100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.035 J	0.047 J	0.17	0.063 J	1.2 J	0.041 J
Chrysene Dibenz[a,h]anthracene	mg/kg mg/kg	2,100	295 25.4	51.7 5.9	0.023 0.0027 J	1,620 232	4.6 0.18 J	1.6 0.61	1,450 208	0.011 0.0051 J	2.9	113 3.1	0.22 0.035 J	0.69	0.76	10.5	1.2 0.65	5.3 0.8	0.44 0.15
Diethylphthalate	mg/kg		N/A	N/A	N/A	N/A	0.18 J N/A	N/A	208 N/A	N/A	0.02 N/A	N/A	0.035 J 0.022 J	0.18 0.017 J	0.15 0.021 J	0.077 U	0.05 0.079 U	0.085 U	0.15 0.045 J
Fluoranthene	mg/kg	30,000	1,330	154	0.13	5,410	2.6	1.6	4.490	0.016	3.1	383	0.38	0.98	0.89	56.6	1.1	14.5	0.46
Fluorene	mg/kg	30,000	512	83.4	0.078	1,770	0.33 J	0.12	1,220	0.00083 J	0.23	63.4	0.013 J	0.045 J	0.035	0.63	0.072	4	0.015
Indeno[1,2,3-c,d]pyrene	mg/kg	21	80.3	20	0.0092 J	673	0.4 J	1.5	624	0.015	3.5	7.9	0.12	0.5	0.5	2.9	1.2	2.4	0.43
Naphthalene	mg/kg	8.6	1,520	199	0.33	3,950	5	0.73	2,530	0.02	0.28	227	0.041 J	0.13	0.21	0.92	0.15	20	0.1
N-Nitrosodiphenylamine	mg/kg	470	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.074 U	0.071 U	0.077 U	0.079 U	0.085 U	0.073 U
Phenanthrene	mg/kg		2,810	217	0.25	7,130	2	0.74	4,980	0.015	1.8	293	0.16	0.65	0.29	11.4	0.5	16.7	0.24
Phenol	mg/kg	250,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.078 U	0.074 U	0.071 U	0.028 J	0.079 U	0.043 J	0.073 U
Pyrene	mg/kg	23,000	879	136	0.087	3,840	3	1.6	3,150	0.013	3	277	0.31	0.77	0.89	42.9	1.1	10.7	0.43
PCBs		·																	
Aroclor 1248	mg/kg	0.94	N/A	N/A	N/A	1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0573 U	N/A	0.0519 U
Aroclor 1254	mg/kg	0.97	N/A	N/A	N/A	1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0573 U	N/A	0.0519 U
Aroclor 1260	mg/kg	0.99	N/A	N/A	N/A	1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0573 U	N/A	0.0519 U
PCBs (total)	mg/kg	0.97	N/A	N/A	N/A	9.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0573 U	N/A	0.0519 U
TPH/Oil and Grease	/1	6,200	9,450	6.290	10.7	N/A	6,110	(7.9	5,780	14.4	271	1,210	82.1	100	222	149	60.2 J	902 1	50.2.1
Diesel Range Organics				6 790		N/Δ	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	67.8	5 /XU			1 / 10	A/ I	1 100	322	148	00.2.1	802 J	59.2 J
Gasoline Range Organias	mg/kg mg/kg						/		,			· · · · ·							12.4.11
Gasoline Range Organics Oil and Grease	mg/kg mg/kg mg/kg	6,200 6,200	44.8	N/A N/A	10.7 10.3 U 335	N/A N/A	89.3 11,000	13.1 U 414	25.4 U 6,820	9.4 U 311 J	11.8 U 897	18.1	10.4 U 1470	10.6 U 1000	12.7 U 1330	12.6 U 1370	11.4 U 803	10.8 U 3,910	12.4 U 367

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank. UJ: This analye was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Induced bin make fs make fs make fs make fs make		1	1	A 11 020 SD 4	A 11 021 SD 6	A 11 021 SP 10	A 11 022 SD 1*	A11 024 SD 1*	A 11 024 SD 5*	A 11 025 SD 1	A11 025 SD 4	A 11 026 SD 1	A 11 026 SD 5	A 11 027 SD 1*	A11 027 SD 5*	A 11 040 A SD 58	A 11 040 A SD 10*	A 11 040 A SD 15*	A 11 040D SD 5*	A 11 040D SD 103	* A 11 040C SD 5*
Number description Number	Parameter	Units	PAL																		
Interfact pp pp<	Volatile Organic Compounds		1	0,10,2010	0,11,2010	0,11,2010	0.972010	0/9/2010	0.7.2010	0.12.2010	0,12,2010	0,12,2010	0,10,2010	0/1/2010	0/1/2010	0,10,2010	0.10.2010	0/10/2010	0/10/2010	0/10/2010	0,10,2010
body Body <th< td=""><td>9 1</td><td>mg/kg</td><td>16</td><td>0.0062 U</td><td>0.006 U</td><td>0.0052 U</td><td>0.0047 U</td><td>0.0048 U</td><td>0.005 U</td><td>0.004 U</td><td>0.0045 U</td><td>0.0052 U</td><td>0.0056 U</td><td>0.005 U</td><td>0.005 U</td><td>0.0036 U</td><td>0.0045 U</td><td>0.0055 U</td><td>0.0038 U</td><td>0.0045 U</td><td>0.0061 U</td></th<>	9 1	mg/kg	16	0.0062 U	0.006 U	0.0052 U	0.0047 U	0.0048 U	0.005 U	0.004 U	0.0045 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0036 U	0.0045 U	0.0055 U	0.0038 U	0.0045 U	0.0061 U
Distance	1,2-Dibromo-3-chloropropane	00	0.064	0.0062 U	0.006 U	0.0052 U	0.0047 U	0.0048 U	0.005 U	0.004 U	0.0045 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0036 U	0.0045 U	0.0055 U	0.0038 U	0.0045 U	0.0061 U
School symmetry School sym	1,2-Dichloroethene (Total)	mg/kg	2,300	0.012 U	0.012 U	0.01 U	0.0093 U	0.0097 U	0.01 U	0.0081 U	0.0089 U	0.01 U	0.011 U	0.01 U	0.01 U	0.0072 U	0.009 U	0.011 U	0.0075 U	0.009 U	0.012 U
NameN	2-Butanone (MEK)	mg/kg	190,000	0.012 U	0.012 U	0.0046 J	0.0093 U	0.0097 U	0.01 U	0.0081 U	0.0089 U	0.01 U	0.011 U	0.01 U	0.01 U	0.0072 U	0.009	0.048	0.0075 U	0.009 U	0.012 U
berter berter<	4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.012 U	0.012 U	0.01 U	0.0093 U	0.0097 U	0.01 U	0.0081 U	0.0089 U	0.01 U	0.011 U	0.01 U	0.01 U	0.0072 U	0.0042 J	0.017	0.0075 U	0.009 U	0.012 U
Cale. A. S. M. Mode	Acetone	mg/kg	670,000		0.01 JB		0.0093 U			0.0081 UJ						0.098	0.055				
Camela Lin Moto Moto Gallo Gallo Moto Moto Moto Moto <th< td=""><td></td><td>00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		00																			
bit bit< b			,																		
Control Math Zamo Math Zamo Math Math <		00																			
bip 20 00000 000000 000000 0000000 0000000 0000000 0000000 0000000 000000 000000 000000																					
numbernumbernumberNorth			,														0100000				
Main Main <th< td=""><td></td><td>00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		00																			
biologeintegra<	1 15	00	,																		
space mig 3000 0.0001 0.0001 0.0001	·																				
Teacheone Teacheone <t< td=""><td>-</td><td>00</td><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-	00	,																		
Index Image Orace Orace <th< td=""><td></td><td>00</td><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		00	,																		
Technologie mage i.e. 000521 000512 000521 000511					0.006 U	0.0052 U								0.005 U		0.0055	5.3	6.2	0.0038 U		0.0061 U
Nigh Janch marks 1.7 0.0032 0.0017 0.0032 0.0017 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0037 0.0017<	trans-1,2-Dichloroethene	mg/kg	23,000	0.0062 U	0.006 U	0.0052 U	0.0047 U	0.0048 U	0.005 U	0.004 U	0.0045 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0036 U	0.0045 U	0.0055 U	0.0038 U	0.0045 U	0.0061 U
Non-ompha mpha2000.0000.0000.00100.0	Trichloroethene	mg/kg	6	0.0062 U	0.006 U	0.0052 U	0.0047 U	0.0048 U	0.005 U	0.004 U	0.0045 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0036 U	0.0045 U	0.0055 U	0.0038 U	0.0045 U	0.0061 U
Second Autor Organic Composition Second Autor OrganicComposition Second Autor OrganicComp	Vinyl chloride	mg/kg	1.7	0.0062 U	0.006 U	0.0052 U	0.0047 U	0.0048 U	0.005 U	0.004 U	0.0045 U	0.0052 U	0.0056 U	0.005 U	0.005 U	0.0036 U	0.0045 U	0.0055 U	0.0038 U	0.0045 U	0.0061 U
bl.shpert mpt m	Xylenes	mg/kg	2,800	0.019 U	0.018 U	0.003 J	0.014 U	0.015 U	0.015 U	0.012 U	0.013 U	0.016 U	0.017 U	0.015 U	0.015 U	0.011 U	11.8	34.8	0.011 U	0.014 U	0.018 U
Athmetophend rg/k 16.00 0.071	Semi-Volatile Organic Compounds^			-		-						-					-		-		
Schedingelande reg/s 3.00 0.071 0.001 0.021 0.021 0.072 0.071 0.001 0.001 0.021 0.001	1,1-Biphenyl	mg/kg																			
Description rmg/s Juli 0.0171 0.0711 0.0711 0.0711 0.0711 0.070		00																			
SkA-Merghensenker (ress) mgs d.100 0.17.8 0.017.0 0.17.8 0.017.0 0.17.8 0.17.0 NA NA NA NA NA NA Accepathose mgs 4.500 0.001.0 0.001.1 0.007.0 0.001.2 0.003.0 0.003 0.023 0.003 0.033 0.033 0.033 0.035 0.003.0 0.033 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.0	I	00	,															-			
Name Image			,																		
heading min Signed 0.00710 0.00700 0.00710 0.00961 0.00970 0.0030 0.0370 0.00710 0.00961 0.00970 0.0030 0.0370 0		00	,																		
Accesspence mg/sg 120000 0.0671 1.1 0.0721 0.0711	1	00	,																		
Anthreem rugge 20200 0.00.1 1.1.1 0.0.3 0.0.1 0.1.2 0.0.7		00	,																		
Interl Interl 0.03 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.049 0.423 0.143 0.047 0.047 0.049 0.437 0.040 0.047 0.0471 0.011 0.011 <		00	,																		
Bernalebode mg/kg 120000 0.087.U 1.7 0.077.U 0.077.U 0.071.U		00	,															/			
Beach Diport mage 2.1 0.86 0.818 0.818 0.818 0.813 0.813 0.813 0.814 0.11 0.314 3.14 1.17 0.813 0.314 0.116 0.11 0.314 <th< td=""><td>Benzaldehyde</td><td>00</td><td>120,000</td><td>0.087 UJ</td><td>1.7</td><td>0.87</td><td>0.072 U</td><td>0.074 U</td><td>0.075 U</td><td>0.073 U</td><td>0.081 U</td><td>0.075 U</td><td>0.071 U</td><td>0.076 U</td><td>0.082 U</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></th<>	Benzaldehyde	00	120,000	0.087 UJ	1.7	0.87	0.072 U	0.074 U	0.075 U	0.073 U	0.081 U	0.075 U	0.071 U	0.076 U	0.082 U	N/A	N/A	N/A	N/A	N/A	N/A
Bears (a) leged one mg/s [Benzo[a]pyrene	mg/kg	2.1	0.026	0.081 J	0.20	0.27	0.06	0.64	0.67	0.26	0.01 J	0.036	0.11	0.052	0.23	112	916	0.35	0.19	0.095
Beads (Broamsham mg/s 10 0.016 0.07 0.7 0.46 0.936 0.075 0.069 0.069 0.01 0.1 0.1 1.42 0.17 0.089 0.01 Sigh2Dhipschyladis mg/s 160 0.08710 0.00110 0.00110 0.0111 0.0110 0.0111 0	Benzo[b]fluoranthene	mg/kg	21	0.036	0.083 U	0.18	0.51	0.099	0.93	1.3	0.63	0.013 J	0.076	0.19	0.11	0.31	344	1,370	0.5	0.28	0.25
biss2-biblex/b	Benzo[g,h,i]perylene	mg/kg		0.016	0.94	0.22	0.14	0.034	0.39	0.25	0.06	0.075 U	0.04	0.07	0.022	0.14	51.7	440	0.18	0.1	0.084
Carpolation mg/s 40000 0.22U 1.5 0.74 0.18U 0.18U 0.2U 0.02J 0.18U 0.12U 0.02J 0.18U 0.12U 0.02U NA		mg/kg															-				
Carbasole mg/kg c 0.087 U 0.087 U 0.071 U 0.071 U 0.071 U 0.076 U 0.078 U 0.070 M NA NA NA NA NA Chrspare mg/kg 2.10 0.085 J 0.079 U 0.091 U 0.065 U 0.031 U 0.071 U 0.076 U 0.092 U NA NA NA NA NA Dibenzig/Alpathance mg/kg 2.10 0.085 J 0.021 U 0.071 U 0.075 U 0.0071 U 0.0076 U 0.0096 0.047 U 0.081 U 0.023 U 0.0071 U 0.0071 U 0.0071 U 0.071 U 0.071 U 0.071 U 0.071 U 0.076 U 0.0076 U 0.0087 U 0.0071		00																			
Chysen mg/sg 2,10 0.033 U 0.073 U 0.09 0.09 0.10 894 0.38 0.12 Diberg/a/lambnece mg/sg 2.11 0.003 J 0.083 U 0.071 U 0.017 U 0.005 U 0.017 U 0.005 U 0.007 U 0.007 U 0.017 U 0.017 U 0.007 U <th< td=""><td>^</td><td></td><td>400,000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	^		400,000																		
Discriptabilantence mg/kg 2.1 0.0053.j 0.003.j 0.047 0.092.j 0.017 0.049 0.014 0.012 0.017 0.017 0.009 0.024 0.009 0.047 18.2 157 0.059 0.034 0.023 Dichrythphalate mg/kg 60.00 0.034 0.032.j 0.071 0.071 0.075 0.071 0.075 0.082 N/A N/A <th< td=""><td></td><td>00</td><td>2 100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		00	2 100																		
Diethylphthalate mg/kg 660,00 0.032 J 0.21 0.20 0.071 U 0.075 U 0.071 U 0.071 U 0.075 U 0.078 U 0.075 U 0.082 U NA NA NA NA NA NA NA Ehoranhene mg/kg 30.000 0.083 U 0.079 U 0.065 J 0.007 J 2.3 2.5 0.65 0.011 J 0.039 U 0.012 J 0.027 J 0.062 J 0.031 U 0.071 U 0.011 J 0.039 U 0.013 U 0.027 J 0.062 J 0.011 J 0.039 U 0.012 J 0.021 U 0.011 J 0.039 U 0.012 J 0.027 J 0.062 J 0.021 U 0.011 U 0.012 J 0.011 U 0.012 U 0.011 U 0.012 U 0.011 U 0.012 U 0.012 U 0.011 U 0.012 U 0.012 U 0.011 U 0.012 U 0.011 U		00	,														-				
Fluorathene mg/kg 30.000 0.034 0.038 U 0.079 U 0.26 0.073 U 2.3 2.5 0.65 0.011 J 0.039 0.13 0.075 U 0.38 663 6.230 1.4 0.59 0.3 Fluorene mg/kg 30.000 0.002 J 0.083 U 0.079 U 0.063 J 0.012 J 0.021 U 0.001 J 0.001 J 0.001 J 0.001 J 0.002 J 0.014 54.5 423 U 0.10 0.011 U 0.011 U 0.075 U 0.075 U 0.027 U 0.076 U 0.075 U 0.021 U 0.017		00						010.07										101			0.0-0
Fhorene mg/kg 30,00 0.002 J 0.083 U 0.079 U 0.0023 J 0.081 J 0.002 J 0.0013 J 0.0027 J 0.027 J 0.027 J 2.66 1.290 0.41 0.11 0.01 Indered(1,2,3-c,d)prene mg/kg 2.1 0.014 7.3 1.3 0.15 0.032 0.39 0.27 0.067 0.075 U 0.029 0.061 0.011 0.22 1.60 0.11 0.01 0.01 Nahtahan mg/kg 8.6 0.014 1.4 0.31 0.042 0.06 0.071 U 0.050 0.021 U 0.071 U 0.033 0.14 54.5 423 U 0.01 0.033 0.01 0.017 U 0.027 U 0.021 U 0.031 U 0.031 U 0.071 U 0.071 U 0.011 U 0.011 U 0.023 U 0.031 U 0.033 U 0.051 U 0.071 U <t< td=""><td>· · ·</td><td>00</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	· · ·	00	-																		
Index[1,2,3,c,d]pyrene mg/kg 21 0.014 7.3 1.3 0.15 0.032 0.39 0.27 0.067 0.075 0.023 0.14 54.5 423 0.19 0.1 0.071 Naphthalene mg/kg 8.6 0.014 1.4 0.31 0.042 0.06 3.9 0.35 0.18 0.059 0.021 0.017 0.2 1.60 17.00 1.4 0.23 0.03 Nitrosofilpent/amine mg/kg 70 0.87 0.12 0.071 0.071 0.021 0.017 0.2 1.60 17.00 1.4 0.23 0.03 Nitrosofilpent/amine mg/kg 0.032 1.5 0.35 0.11 0.075 0.75 0.057 0.071 0.057 0.029 0.22 0.20 0.23 0.24 0.23 0.24 0.23 0.24 0.23 0.21 0.067 0.22 0.21 0.059 0.21 0.057 0.23 0.037 0.021 0.052		0 0	,																		
Name mg/kg 8.6 0.014 1.4 0.31 0.042 0.06 3.9 0.35 0.18 0.075 U 0.017 0.2 1.600 17,000 1.4 0.23 0.03 N-Nirosodiphen/lamine mg/kg 470 0.087 U 0.657 0.12 0.072 U 0.074 U 0.075 U 0.075 U 0.071 U 0.076 U 0.082 U N/A		00	,															/			
N-Nitrosodiphenylamine mg/kg 470 0.087 U 0.057 0.12 0.072 U 0.074 U 0.073 U 0.073 U 0.071 U 0.076 U 0.082 U N/A	Naphthalene	0 0																			
Phenanthrene mg/kg 0 0.032 1.5 0.35 0.11 0.079 2.8 2.8 0.23 0.087 0.029 0.2 923 8,100 1.9 0.32 0.14 Phenol mg/kg 250,000 0.087 R 0.068 0.59 0.071 U 0.018 J 0.073 R 0.081 U 0.075 R 0.071 R 0.076 U 0.082 U N/A	N-Nitrosodiphenylamine	0 0															1	7			
Pyrne mg/kg 23,00 0.029 7.2 2.9 0.21 0.057 1.7 1.4 0.59 0.01 0.032 0.12 0.062 0.32 464 4,520 1 0.44 0.31 PCBs Arolo 1248 mg/kg 0.94 N/A N/A N/A 0.053 U 0.0543 U N/A 0.0552 U N/A 0.0552 U N/A N/	Phenanthrene	mg/kg		0.032	1.5	0.35	0.11	0.079	2.8	2.8	0.23	0.016 B	0.037	0.087	0.029	0.2	923	8,100	1.9	0.32	0.14
PCBs Aroclor 1248 mg/kg 0.94 N/A N/A 0.053 U 0.0543 U N/A 0.0552 U N/A 0.0552 U N/A N/A N/A N/A N/A Aroclor 1254 mg/kg 0.97 N/A N/A N/A 0.053 U 0.0543 U N/A 0.0552 U N/A 0.0552 U N/A N/A N/A N/A N/A Aroclor 1254 mg/kg 0.97 N/A N/A N/A 0.053 U 0.0543 U N/A 0.0552 U N/A 0.0552 U N/A N/A N/A N/A N/A Aroclor 1260 mg/kg 0.99 N/A N/A 0.053 U 0.0543 U N/A 0.0552 U N/A 0.0552 U N/A	Phenol	mg/kg	250,000	0.087 R	0.068	0.59	0.072 U	0.074 U	0.018 J	0.073 R	0.081 U	0.075 R	0.071 R	0.076 U	0.082 U	N/A	N/A	N/A	N/A	N/A	N/A
Aroclo 1248 mg/kg 0.94 N/A N/A N/A 0.053 U 0.054 U N/A 0.068 U N/A 0.055 U N/A N	Pyrene	mg/kg	23,000	0.029	7.2	2.9	0.21	0.057	1.7	1.4	0.59	0.01 J	0.032	0.12	0.062	0.32	464	4,520	1	0.44	0.31
Aroclor 1254 mg/kg 0.97 N/A N/A N/A 0.053 U 0.054 U N/A 0.0681 U N/A 0.0552 U N/A N/A <t< td=""><td>PCBs</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></t<>	PCBs																		-		
Aracle 1260 mg/kg 0.99 N/A N/A N/A 0.053 U 0.054 U N/A 0.0552 U N/A 0.0552 U N/A 0.053 U 0.054 U N/A 0.0681 U N/A 0.0552 U N/A 0.0552 U N/A <		00																			
PCBs (total) mg/kg 0.97 N/A N/A N/A 0.053 U 0.0543 U N/A 0.0681 U N/A 0.052 U N/A		00																			
TPH/Oil and Grease Diesel Range Organics mg/kg 6,200 19.5 J 195 464 27 49.6 79.1 138 J 240 J 39.2 J 19.5 J 24.9 25.5 48.3 3,770 21,300 8.8 40.7 24.2 Gasoline Range Organics mg/kg 6,200 15.4 U 11.3 U 10.1 U 10.4 U 10.7 U 11.5 U 9.7 U 9.1 U 11.9 U 12.2 U 10.6 U 9.9 U 9.7 U 136 600 9.7 U 9.8 U 9.4 U				1																	
Diesel Range Organics mg/kg 6,200 19.5 J 195 464 27 49.6 79.1 138 J 240 J 39.2 J 19.5 J 24.9 25.5 48.3 3,770 21,300 8.8 40.7 24.2 Gasoline Range Organics mg/kg 6,200 15.4 U 11.3 U 10.1 U 10.4 U 10.7 U 11.5 U 9.7 U 9.1 U 11.9 U 12.2 U 10.6 U 9.9 U 9.7 U 136 600 9.7 U 9.8 U 9.4 U	PCBs (total)	mg/kg	0.97	N/A	N/A	N/A	0.053 U	0.0543 U	N/A	0.0552 U	N/A	0.0681 U	N/A	0.0552 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasoline Range Organics mg/kg 6,200 15.4 U 11.3 U 10.1 U 10.7 U 11.5 U 9.7 U 9.1 U 11.9 U 12.2 U 10.6 U 9.9 U 9.7 U 136 600 9.7 U 9.4 U			6.000	10 5 5	107		A =	16 -		100.5	A 12 -		10			10.0	0.5=1		0.5	4.0 -	
	0 0	00	,															12.2.2			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,																		
		mg/kg	0,200	/04	1100	3020	433	381	1,400	1,190	1,/00	183	//.4 J	101 B	439	215	2,110	10,500	43/	123 U	334

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

	1	П	A11-040C-SB-10	* A11-040D-SB-5*	A11-040D-SB-10*	A11 040E SD 5*	A11-040E-SB-6.5*	* A11-040F-SB-5*	A11-040F-SB-10*	A11-040F-SB-15*	* A11-040G-SB-5*	A11-040G-SB-10*	A11-040G-SB-15*	11 040U SP 5*	A 11 040H SP 103	A 11 040H SP 12 4	5* A11-040J-SB-19*	A11 0401 SP 24*
Parameter	Units	PAL	6/18/2018	6/18/2018	6/18/2018	6/18/2018	6/18/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/25/2018	6/25/2018
Volatile Organic Compounds		Ш																
1,1-Dichloroethane	mg/kg	16	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
1,2-Dibromo-3-chloropropane	mg/kg	0.064	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
1,2-Dichloroethene (Total)	mg/kg	2,300	0.0087 U	0.011 U	0.0099 U	0.0098 U	0.0089 U	0.0092 U	0.0079 U	0.01 U	0.01 U	0.011 U	0.0082 U	0.0083 U	0.009 U	0.0085 U	0.017 U	0.0081 U
2-Butanone (MEK)	mg/kg	190,000	0.0087 U	0.0063 J	0.0099 U	0.0098 U	0.0089 U	0.0092 U	0.0079 U	0.0097 J	0.01 U	0.011 U	0.007 J	0.011	0.0091	0.0085 U	0.013 J	0.0077 J
4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.0087 U	0.011 U	0.0099 U	0.0098 U	0.0089 U	0.0092 U	0.0079 U	0.01 U	0.01 U	0.011 U	0.0082 U	0.0083 U	0.009 U	0.0085 U	0.017 U	0.0081 U
Acetone	mg/kg	670,000	0.05	0.23	0.23	0.2	0.11	0.18	0.023	0.28	0.095	0.045	0.15	0.14	0.31	0.21	0.43	0.11
Benzene	mg/kg	5.1	0.18	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0085	0.0019 J	13.6	0.018	0.0045 U	0.014	0.0087 U	0.004 U
Carbon disulfide	mg/kg	3,500	0.0044 U	0.0056 U	0.0049 U	0.0022 J	0.0023 J	0.0046 U	0.0039 U	0.0051 U	0.0034 J	0.0034 J	0.0041 U	0.0019 J	0.0045 U	0.0025 J	0.014	0.004 U
Chloroform	mg/kg	1.4	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
cis-1,2-Dichloroethene	mg/kg	2,300	0.0044 U 0.0087 U	0.0056 U	0.0049 U 0.0099 U	0.0049 U 0.0098 U	0.0045 U 0.0089 U	0.0046 U 0.0092 U	0.0039 U 0.0079 U	0.0051 U 0.01 U	0.0052 U 0.01 U	0.0056 U	0.0041 U 0.0082 U	0.0041 U 0.0083 U	0.0045 U 0.009 U	0.0043 U 0.0085 U	0.0087 U 0.017 U	0.004 U 0.0081 U
Cyclohexane Ethylbenzene	mg/kg mg/kg	27,000 25	0.00870	0.011 U 0.0056 U	0.0099 U 0.0049 U	0.0098 U 0.0049 U	0.0089 U 0.0045 U	0.0092 U 0.0046 U	0.0079 U 0.0039 U	0.01 U	0.010	0.011 U 0.0056 U	0.0082 0	0.0083 U 0.0041 U	0.009 U 0.0045 U	0.0083 U 0.0043 U	0.017 U 0.0087 U	0.0081 U 0.004 U
Isopropylbenzene	mg/kg	9,900	0.0017 J 0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0054 0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
Methyl Acetate	mg/kg	1,200,000	0.034 J	0.0056 U	0.0049 U	0.0049 0	0.034 J	0.0094 J	0.039 U	0.0051 C	0.052 U	0.056 U	0.0041 0 0.0066 J	0.0041 C	0.0049 U	0.0045 C	0.087 U	0.004 U
Methylene Chloride	mg/kg	1,200,000	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
Styrene	mg/kg	35,000	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
Tetrachloroethene	mg/kg	100	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
Toluene	mg/kg	47,000	0.0052	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.004 J	0.0056 U	0.24	0.0017 J	0.0045 U	0.0043 U	0.0087 U	0.004 U
trans-1,2-Dichloroethene	mg/kg	23,000	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
Trichloroethene	mg/kg	6	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
Vinyl chloride	mg/kg	1.7	0.0044 U	0.0056 U	0.0049 U	0.0049 U	0.0045 U	0.0046 U	0.0039 U	0.0051 U	0.0052 U	0.0056 U	0.0041 U	0.0041 U	0.0045 U	0.0043 U	0.0087 U	0.004 U
Xylenes	mg/kg	2,800	0.028	0.017 U	0.015 U	0.015 U	0.013 U	0.014 U	0.012 U	0.015 U	0.0063 J	0.017 U	0.32	0.012 U	0.013 U	0.013 U	0.026 U	0.012 U
Semi-Volatile Organic Compounds^	И	200	37/4	57/4	N1/4	NT/ 1	21/1	NT/ 1	NT/ 4	27/1	37/4	N1/4	37/4	27/4	77/4	37/4	37/4	N/ 4
1,1-Biphenyl	mg/kg	200	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	N/A N/A
2,4-Dimethylphenol 2-Methylnaphthalene	mg/kg	3,000	0.27	0.76 U	N/A 0.024	N/A 0.13	0.18	N/A 0.051	0.023	0.0075 J	N/A 0.065	N/A 0.016	0.85	N/A 0.39	N/A 0.0033 J	N/A 0.76	0.046	0.0075 U
2-Methylphenol	mg/kg mg/kg	41,000	0.27 N/A	0.76 U N/A	0.024 N/A	0.13 N/A	0.10 N/A	0.051 N/A	0.023 N/A	N/A	N/A	0.010 N/A	0.85 N/A	0.39 N/A	0.0033 J N/A	0.70 N/A	0.040 N/A	N/A
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	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 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Acenaphthene	mg/kg	45,000	0.074	0.76 U	0.031	0.22	0.081	0.026	0.014	0.0076 J	0.024	0.0092	0.37	0.29	0.0029 J	0.52	0.04	0.0065 J
Acenaphthylene	mg/kg	45,000	0.11	0.76 U	0.002 J	0.021	0.036	0.059	0.0034 J	0.0083 J	0.034	0.00095 J	0.39	0.19	0.026	1.3	0.0075	0.0033 J
Acetophenone	mg/kg	120,000	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
Anthracene	mg/kg	230,000	0.32	0.76 U	0.035	0.64	0.27	0.07	0.019	0.023	0.037	0.01	1.1	0.52	0.031	38.8	0.032	0.082
Benz[a]anthracene	mg/kg	21	0.29	0.76 U	0.011	0.87	0.6	0.43	0.013	0.065	0.2	0.016	1.2	0.82	0.21	9.8	0.19	0.31
Benzaldehyde	mg/kg	120,000	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
Benzo[a]pyrene	mg/kg	2.1	0.25	0.25 J	0.014	0.73	0.53	0.56	0.0092	0.057	0.3	0.015	1.1	0.64	0.22	8.4	0.35	0.27
Benzo[b]fluoranthene	mg/kg	21	0.5	0.53 J	0.017	1.1	1.2	0.67	0.013	0.092	0.47	0.029	1.9	1.7	0.32	13.4	0.49	0.38
Benzo[g,h,i]perylene Benzo[k]fluoranthene	mg/kg	210	0.13 0.34	0.76 U 0.35 J	0.012 0.0082 J	0.42	0.17	0.32	0.005 J 0.0048 J	0.027 0.032	0.11 0.15	0.0053 J 0.021	0.28	0.19	0.062	1.3 3.8	0.18	0.084
bis(2-Ethylhexyl)phthalate	mg/kg mg/kg	160	0.34 N/A	0.35 J N/A	0.0082 J N/A	0.32 N/A	0.8 N/A	0.27 N/A	0.0048 J N/A	0.032 N/A	0.15 N/A	0.021 N/A	0.49 N/A	N/A	0.1 N/A	3.8 N/A	0.19 N/A	0.17 N/A
Caprolactam	mg/kg	400,000	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 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Carbazole	mg/kg	100,000	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 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Chrysene	mg/kg	2,100	0.28	0.83	0.0075 J	0.66	0.6	0.33	0.013	0.051	0.19	0.014	0.84	0.69	0.16	7.1	0.23	0.28
Dibenz[a,h]anthracene	mg/kg	2.1	0.042	0.76 U	0.0034 J	0.14	0.086	0.12	0.0086 U	0.0095	0.043	0.0088 U	0.13	0.096	0.025	0.8	0.063	0.034
Diethylphthalate	mg/kg	660,000	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
Fluoranthene	mg/kg	30,000	0.76	0.54 J	0.022	2.6	1.3	0.45	0.047	0.12	0.24	0.046	3.7	2.7	0.27	47	0.29	0.63
Fluorene	mg/kg	30,000	0.36	0.76 U	0.026	0.34	0.11	0.01	0.018	0.011	0.014	0.015	1.9	1.2	0.004 J	7.4	0.012	0.012
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.12	0.76 U	0.011	0.4	0.2	0.33	0.0053 J	0.031	0.11	0.0058 J	0.37	0.24	0.075	2.2	0.17	0.086
Naphthalene	mg/kg	8.6	6.1	0.76 U	0.039	0.14	0.38	0.15	0.093	0.029	0.42	0.025	34.3	6.1	0.015	4.4	0.086	0.0034 B
N-Nitrosodiphenylamine Phenanthrene	mg/kg mg/kg	470	N/A 0.89	N/A 0.16 J	N/A 0.17	N/A 2.4	N/A 1.1	N/A 0.2	N/A 0.081	N/A 0.067	N/A 0.16	N/A 0.064	N/A 5.9	N/A 3.6	N/A 0.071	N/A 61	0.18	N/A 0.25
Phenanthrene Phenol	mg/kg mg/kg	250,000	0.89 N/A	0.16 J N/A	0.17 N/A	2.4 N/A	1.1 N/A	0.2 N/A	0.081 N/A	0.067 N/A	0.16 N/A	0.064 N/A	5.9 N/A	3.0 N/A	0.071 N/A	01 N/A	0.18 N/A	0.25 N/A
Pyrene	mg/kg	230,000	0.56	0.65 J	0.015	1.5	1 IN/A	0.38	0.032	0.096	0.21	0.036	2.4	1.4	0.23	32.6	0.25	0.48
PCBs	mg/ng	25,000	0.00	0.05 0	0.010	1.0		0.00	0.002	0.070	0,41	0.000	— ——	T.T	0.20	52.0	0.40	0.10
Aroclor 1248	mg/kg	0.94	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
Aroclor 1254	mg/kg	0.97	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
Aroclor 1260	mg/kg	0.99	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
PCBs (total)	mg/kg	0.97	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
TPH/Oil and Grease																		
Diesel Range Organics	mg/kg	6,200	96.7	2,340	14.8	84.6	165	58.6	12.6	23.4	50.4	15.3	143	99.6	7.6 J	200	67.2	14.5
Gasoline Range Organics	mg/kg	6,200	10.3 U	12.3 U	9.1 U	12.1 U	10 U	10.9 U	8.6 U	10.3 U	12.7 U	19.1 U	30.3	9 U	10.1 U	8.6 U	9.4 U	8.3 U
Oil and Grease	mg/kg	6,200	347	9,860	607	688	1,270	317	441	519	1,320	345	577	560	315	1,010	319	298

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

	1															· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Parameter	Units	PAL		A11-040K-SB-13*					* A11-040M-SB-5*			· · ·							
			6/25/2018	6/25/2018	6/25/2018	6/25/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/21/2018	8/21/2018	8/9/2016	8/9/2016	8/9/2016	8/23/2018	8/1/2016	8/1/2016
Volatile Organic Compounds			0.00.40.11	0.004.11	0.0051.11	0.0000.11	0.004.11	0.0040.11	0.00477	0.004511	0.0055.11	0.0045.11	0.0045.11	0.004.11	0.005433	0.007.11	0.0042.11	0.0040.77	0.0040.11
1,1-Dichloroethane	mg/kg	16	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.004 U	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
1,2-Dibromo-3-chloropropane	mg/kg	0.064	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.004 U	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
1,2-Dichloroethene (Total) 2-Butanone (MEK)	mg/kg	2,300 190,000	0.0097 U 0.0097 U	0.008 U	0.01 U 0.01 U	0.0079 U	0.0068 J 0.008 U	0.015 0.0096 U	0.012 U 0.012 U	0.0093 U 0.0093 U	0.011 U 0.011 U	0.0095 U	0.0093 U 0.0093 U	0.0079 U 0.0079 U	0.011 U 0.011 U	0.014 U	0.0086 U 0.0086 U	0.0095 U 0.0095 U	0.0097 U 0.0097 U
4-Methyl-2-pentanone (MIBK)	mg/kg mg/kg	56,000	0.0097 U 0.0097 U	0.011 0.008 U	0.01 U 0.01 U	0.0074 J 0.0079 U	0.008 U 0.008 U	0.0096 U	0.012 U 0.012 U	0.0093 U 0.0093 U	0.011 U	0.0081 J 0.0095 U	0.0093 U 0.0093 U	0.0079 U 0.0079 U	0.011 U	0.021 0.011 J	0.0086 U	0.0095 U	0.0097 U 0.0097 U
J 1 ()	mg/kg	670,000	0.0097 0	0.008 U	0.01 0	0.0079 0	0.008 U	0.0098 0	0.012 0	0.0093 U	0.011 U	0.0093 0	0.0093 U 0.0093 U	0.0079 U 0.0079 U	0.011 U	0.011 J	0.0086 U	0.0095 U	0.009710
Acetone	mg/kg	5.1	0.003 0.0048 U	0.48 U 0.004 U	0.0051 U	0.013	0.0072 J 0.004 U	0.025	0.0019 0.006 U	0.0093 U 0.0031 J	0.0011 J	0.022 0.0027 J	0.0093 U	0.0079 U 0.004 U	0.0011 U 0.0054 U	0.078 N/A	0.0080 U 0.0043 U	0.0093 U 0.0048 U	0.014 0.0048 U
Benzene Carbon disulfide	mg/kg	3,500	0.0048 C	0.004 U 0.004 U	0.0031 U	0.015 0.0025 J	0.004 U 0.004 U	0.0037 J	0.000 0	0.0031 J 0.0047 U	0.0057 U	0.0027J 0.0047 U	0.0014 J 0.0047 U	0.004 U	0.0054 U	0.045	0.0043 U	0.0048 U	0.0048 U
Chloroform	mg/kg	1.4	0.0047 J 0.0048 U	0.004 U	0.0028 J 0.0051 U	0.0023 J 0.0039 U	0.004 U	0.0037 J 0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.0043 0.007 U	0.0043 U	0.0048 U	0.004 J 0.0048 U
cis-1.2-Dichloroethene	mg/kg	2,300	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.0058	0.015	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
Cyclohexane	mg/kg	27,000	0.0097 U	0.004 U	0.0001 U	0.0079 U	0.008 U	0.0096 U	0.0059 J	0.0093 U	0.0037 C	0.0095 U	0.0093 U	0.0079 U	0.0034 C	0.007 C	0.0086 U	0.0095 U	0.0097 U
Ethylbenzene	mg/kg	27,000	0.0048 U	0.000 U	0.0051 U	0.0039 U	0.004 U	0.0025 J	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.34	0.0043 U	0.0048 U	0.0048 U
Isopropylbenzene	mg/kg	9,900	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.004 U	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.14	0.0043 U	0.0048 U	0.0048 U
Methyl Acetate	mg/kg	1,200,000	0.048 U	0.04 U	0.0061 J	0.0092 J	0.04 U	0.048 U	0.06 U	0.047 U	0.057 U	0.047 U	0.047 U	0.04 U	0.054 U	0.07 U	0.043 U	0.048 U	0.048 U
Methylene Chloride	mg/kg	1,000	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.004 U	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
Styrene	mg/kg	35,000	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.004 U	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.08	0.0043 U	0.0048 U	0.0048 U
Tetrachloroethene	mg/kg	100	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.004 U	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
Toluene	mg/kg	47,000	0.0048 U	0.004 U	0.0051 U	0.0016 J	0.0015 J	0.022	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	N/A	0.0043 U	0.0048 U	0.0048 U
trans-1,2-Dichloroethene	mg/kg	23,000	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.004 U	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
Trichloroethene	mg/kg	6	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.0044	0.0048 U	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
Vinyl chloride	mg/kg	1.7	0.0048 U	0.004 U	0.0051 U	0.0039 U	0.0071	0.0089	0.006 U	0.0047 U	0.0057 U	0.0047 U	0.0047 U	0.004 U	0.0054 U	0.007 U	0.0043 U	0.0048 U	0.0048 U
Xylenes	mg/kg	2,800	0.015 U	0.012 U	0.015 U	0.012 U	0.0053 J	0.016	0.018 U	0.014 U	0.017 U	0.014 U	0.014 U	0.012 U	0.016 U	46.3	0.013 U	0.014 U	0.015 U
Semi-Volatile Organic Compounds^																			
1,1-Biphenyl	mg/kg	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	155	N/A	0.074 U	0.063 J
2,4-Dimethylphenol	mg/kg	16,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	31.4	N/A	0.074 U	0.18
2-Methylnaphthalene	mg/kg	3,000	0.059	0.028	0.0083 J	0.013	1.4	1.8	0.33	0.24	0.058	0.46	0.0029 J	0.0088	0.033	159	0.0083	0.092	0.25
2-Methylphenol	mg/kg	41,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	21	N/A	0.074 U	0.081
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.15 U	0.17 U	47.2	N/A	0.15 U	0.16
Acenaphthene	mg/kg	45,000	0.17	0.013	0.015	0.041	0.53	0.98	0.092	0.06	0.075	0.18	0.001 J	0.018	0.052	41.5	0.0016 J	0.0048 J	0.13
Acenaphthylene	mg/kg	45,000	0.025	0.0098	0.0043 J	0.084	0.067 J	1.7	0.045	0.53	0.052	0.1	0.0012 J	0.0023 J	0.018	116	0.0071 U	0.013	0.052
Acetophenone	mg/kg	120,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	51.9	N/A	0.074 U	0.028 J
Anthracene	mg/kg	230,000	0.09	0.029	0.095	0.15	1.7	5.3	0.3	0.49	0.1	0.14	0.0074 J	0.022	0.084	288	0.0044 J	0.016	0.2
Benz[a]anthracene	mg/kg	21	0.39	0.13	0.046	0.36	5.1	9.5	0.39	1.3	0.32	0.59	0.025	0.19	0.38	222	0.014	0.044	0.48
Benzaldehyde	mg/kg	120,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	4.3 U	N/A	0.074 U	0.074 U
Benzo[a]pyrene	mg/kg	2.1	0.6	0.16	0.023	0.36	3.6	8.6	0.41	2.4	0.44	0.84	0.032	0.42	0.53	153	0.016	0.05	0.44
Benzo[b]fluoranthene	mg/kg	21	1.1	0.28	0.057	0.52	7.3	12.2	0.83	4	0.63	1.1	0.041	0.76	0.84	189	0.035	0.089	0.9
Benzo[g,h,i]perylene	mg/kg	210	0.27	0.08	0.0072 J	0.15	0.88	2.9	0.16	0.68	0.26	0.32	0.023	0.32	0.27	86.2	0.014	0.044	0.19
Benzo[k]fluoranthene	mg/kg	210	1.1 N/A	0.12 N/A	0.017	0.22	6.6	4.8	0.62	1.2 N/A	0.19	0.42	0.015	0.69	0.77	113	0.032	0.031	0.82
bis(2-Ethylhexyl)phthalate	mg/kg	160 400,000	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 N/A	0.075 U 0.19 U	0.087 U 0.22 U	4.3 U 10.8 U	N/A N/A	0.046 J	0.35 0.19 U
Caprolactam Carbazole	mg/kg mg/kg	400,000	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 N/A	0.19 U 0.075 U	0.22 U 0.029 J	477	N/A N/A	0.18 U 0.074 U	0.190
Carbazole Chrysene	mg/kg mg/kg	2,100	0.45	0.17	0.055	0.32	4.9	7.6	0.39	N/A	0.28	0.62	0.023	0.073 0	0.029 J	4// 196	0.021	0.074 0	0.38
Dibenz[a,h]anthracene	mg/kg	2,100	0.43	0.03	0.035 0.0031 J	0.058	0.52	1.3	0.39	0.33	0.092	0.02	0.025 0.0058 J	0.2	0.38	32	0.021 0.0039 J	0.003	0.48
Diethylphthalate		660,000	0.12 N/A	0.03 N/A	N/A	N/A	0.32 N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	4.3 U	N/A	0.074 U	0.074 U
Fluoranthene	mg/kg	30,000	0.58	0.3	0.34	0.67	9.6	36.3	0.65	1.4	0.47	0.78	0.035	0.18	0.55	554	0.034	0.08	0.99
Fluorene	mg/kg	30,000	0.046	0.0047 J	0.1	0.2	1.6	4.9	0.13	0.1	0.052	0.33	0.0021 J	0.0036 J	0.028	244	0.002 J	0.0058 J	0.36
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.29	0.079	0.0073 J	0.16	0.97	3.1	0.14	0.76	0.24	0.26	0.018	0.3	0.24	105	0.012	0.038	0.2
Naphthalene	mg/kg	8.6	0.073	0.082	0.011	0.11	0.76	9.5	0.45	0.41	0.088	0.99	0.013	0.066	0.34	3,400	0.018	0.08	1.4
N-Nitrosodiphenylamine	mg/kg	470	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	4.3 U	N/A	0.074 U	0.074 U
Phenanthrene	mg/kg		0.33	0.23	0.57	0.29	9.8	30.1	1.1	0.72	0.39	0.45	0.02	0.056	0.24	753	0.027	0.093	0.84
Phenol	mg/kg	250,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.075 U	0.087 U	23.7	N/A	0.074 U	0.074 U
Pyrene	mg/kg	23,000	0.47	0.23	0.21	0.46	8.5	15.4	0.56	2.4	0.43	0.82	0.031	0.18	0.55	423	0.03	0.076	0.83
PCBs																			
Aroclor 1248	mg/kg	0.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0619 U	N/A	N/A	N/A	0.0563 U	N/A
Aroclor 1254	mg/kg	0.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0619 U	N/A	N/A	N/A	0.0504 J	N/A
Aroclor 1260	mg/kg	0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0619 U	N/A	N/A	N/A	0.0563 U	N/A
PCBs (total)	mg/kg	0.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0619 U	N/A	N/A	N/A	0.0504 J	N/A
TPH/Oil and Grease																			
Diesel Range Organics	mg/kg	6,200	505	47.5	57.7	37.8	8,100	1,280	125	105	106	743	13	19.5	51.4	19,400	49.9	121	122
Gasoline Range Organics	mg/kg	6,200	9.8 U	9.5 U	10.9 U	8.9 U	10.5	11.3 U	10.4 U	8.7 U	11.5 U	9.7 U	10.7 U	10.2 U	12.6 U	937	9.9 U	7.8 U	11.3 U
Oil and Grease	mg/kg	6,200	2,870	201	273	1,730	52,600	3,860	501	658	639	2,840	382	483	1,450	36,900	251	988	1,240

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank. UJ: This analye was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

[1	I	A11-053-SB-1	A11-053-SB-9	A11-054-SB-1*	A11-054-SB-4*	A11-055-SB-1*	A11-055-SB-5*	A11-056-SB-1*	A11-056-SB-5*	A11-057-SB-1	A11-057-SB-5
Parameter	Units	PAL	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/10/2016	8/10/2016
Volatile Organic Compounds												
1,1-Dichloroethane	mg/kg	16	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.0092
1,2-Dibromo-3-chloropropane	mg/kg	0.064	0.0046 U	0.0051 U	0.0048 U	0.0032 J	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.0058 U
1,2-Dichloroethene (Total)	mg/kg	2,300	0.0092 U	0.01 U	0.0097 U	0.013 U	0.0094 U	14.1	0.0091 U	0.0099 U	0.0091 U	0.0083 J
2-Butanone (MEK)	mg/kg	190,000	0.0092 U	0.01 U	0.0097 U	0.013 U	0.0094 U	0.013 U	0.0091 U	0.0099 U	0.0091 U	0.0075 J
4-Methyl-2-pentanone (MIBK)	mg/kg	56,000	0.0092 U	0.01 U	0.0097 U	0.013 U	0.0094 U	0.013 U	0.0091 U	0.0099 U	0.0091 U	0.012 U
Acetone	mg/kg	670,000	0.0092 U	0.01 U	0.0097 U	0.013 U	0.031	0.011 J	0.0091 U	0.0099 U	0.0092 B	0.024 B
Benzene	mg/kg	5.1	0.0046 U	0.0051 U	0.013	0.0052 J	0.002 J	0.015	0.0021 J	0.005 U	0.0046 U	6
Carbon disulfide	mg/kg	3,500	0.0046 U	0.012	0.0048 U	0.0064 U	0.0047 U	0.0044 J	0.0045 U	0.0036 J	0.0046 U	0.0058 U
Chloroform	mg/kg	1.4	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.0058 U
cis-1,2-Dichloroethene	mg/kg	2,300	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	14.1	0.0045 U	0.005 U	0.0046 U	0.0083
Cyclohexane	mg/kg	27,000	0.0092 U	0.01 U	0.0097 U	0.013 U	0.0094 U	0.013 U	0.0091 U	0.0099 U	0.0091 U	0.012 J
Ethylbenzene	mg/kg	25	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.13
Isopropylbenzene	mg/kg	9,900	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.13
Methyl Acetate	mg/kg	1,200,000	0.046 U	0.051 U	0.048 U	0.064 U	0.047 U	0.066 U	0.045 U	0.05 U	0.046 R	0.058 R
Methylene Chloride	mg/kg	1,000	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.0058 U
Styrene	mg/kg	35,000	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.062
Tetrachloroethene	mg/kg	100	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.0066 U	0.0045 U	0.005 U	0.0046 U	0.071
Toluene	mg/kg	47,000	0.0046 U	0.0051 U	0.0027 J	0.0064 U	0.0047 U	0.0064 J	0.0045 U	0.005 U	0.0046 U	29.2
trans-1,2-Dichloroethene	mg/kg	23,000	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.016	0.0045 U	0.005 U	0.0046 U	0.0058 U
Trichloroethene	mg/kg	6	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.11	0.0045 U	0.005 U	0.0046 U	0.025
Vinyl chloride	mg/kg	1.7	0.0046 U	0.0051 U	0.0048 U	0.0064 U	0.0047 U	0.22	0.0045 U	0.005 U	0.0046 U	0.0058 U
Xylenes	mg/kg	2,800	0.014 U	0.015 U	0.015 U	0.019 U	0.014 U	0.0071 J	0.014 U	0.015 U	0.014 U	19.3
Semi-Volatile Organic Compounds^												•
1,1-Biphenyl	mg/kg	200	0.070 U	0.077 U	0.071 U	0.034 J	0.072 U	0.089	0.041 J	0.079 U	0.049 J	2
2,4-Dimethylphenol	mg/kg	16,000	0.070 U	0.077 U	0.071 U	0.086 U	0.072 U	0.18	0.071 U	0.15	0.073 R	0.99
2-Methylnaphthalene	mg/kg	3,000	0.070 U	0.079 U	0.037 J	0.035	0.023	0.012	0.023	0.037	0.021 J	17.4
2-Methylphenol	mg/kg	41,000	0.070 U	0.077 U	0.071 U	0.086 U	0.072 U	0.091	0.071 U	0.079 U	0.073 R	0.12 J
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.14 U	0.150 U	0.14 U	0.17 U	0.14 U	0.15 J	0.14 U	0.041 J	0.14 R	0.54 J
Acenaphthene	mg/kg	45,000	0.044 J	0.079 U	0.041 J	0.015	0.0034 J	0.00059 J	0.018	0.019	0.022 J	2.8
Acenaphthylene	mg/kg	45,000	0.016 J	0.079 U	0.1	0.0084 J	0.0034 J	0.0087 U	0.012	0.0078 J	0.014 J	13.5
Acetophenone	mg/kg	120,000	0.070 U	0.077 U	0.071 U	0.086 U	0.072 U	0.22	0.071 U	0.079 U	0.073 U	2.1
Anthracene	mg/kg	230,000	0.058	0.079 U	0.12	0.018	0.008	0.0027 J	0.038	0.012	0.045	15.3
Benz[a]anthracene	mg/kg	21	1.1	0.079 U	0.25	0.010	0.024	0.0017 J	0.16	0.031	0.22	23.6
Benzaldehyde	mg/kg	120,000	0.070 U	0.077 U	0.071 U	0.086 U	0.072 U	0.035 J	0.071 U	0.079 U	0.073 UJ	0.4 UJ
Benzo[a]pyrene	mg/kg	2.1	2.5	0.079 U	0.26	0.12	0.031	0.0012 J	0.24	0.035	0.3	24.4
Benzo[b]fluoranthene	mg/kg	21	3.1	0.014 J	0.37	0.18	0.051	0.0043 J	0.56	0.08	0.45	50.5
Benzo[g,h,i]perylene	mg/kg	21	1.9	0.079 U	0.23	0.072	0.02	0.0011 J	0.1	0.015	0.27 J	6.4
Benzo[k]fluoranthene	mg/kg	210	1.2	0.079 U	0.17	0.067	0.021	0.0039 J	0.52	0.074	0.18	46
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.070 U	0.077 U	0.071 U	0.086 U	0.072 U	0.088 U	0.071 U	0.079 U	0.073 UJ	0.4 UJ
Caprolactam	mg/kg	400,000	0.18 U	0.19 U	0.18 U	0.22 U	0.18 U	0.22 U	0.18 U	0.2 U	0.18 U	1 U
Carbazole	mg/kg	,	0.038 J	0.077 U	0.071 U	0.086 U	0.072 U	0.088 U	0.023 J	0.079 U	0.02 J	1.9
Chrysene	mg/kg	2,100	1.4	0.0076 J	0.31	0.12	0.037	0.0029 J	0.22	0.042	0.02 J	22.5
Dibenz[a,h]anthracene	mg/kg	2,100	0.46	0.079 U	0.067 J	0.018	0.0048 J	0.002/ J	0.029	0.0054 J	0.08	3.4
Diethylphthalate	mg/kg	660,000	0.070 U	0.077 U	0.071 U	0.086 U	0.072 U	0.088 U	0.071 U	0.079 U	0.073 U	0.4 U
Fluoranthene	mg/kg	30,000	0.71	0.010 J	0.4	0.13	0.043	0.0092	0.3	0.054	0.34 J	62.3
Fluorene	mg/kg	30,000	0.012 J	0.079 U	0.073	0.0051 J	0.0045 0.0016 J	0.0032 0.0013 J	0.0069 J	0.034	0.0092 J	18.5
Indeno[1,2,3-c,d]pyrene	mg/kg	21	1.6	0.079 U	0.21	0.066	0.018	0.0087 U	0.1	0.015	0.26 J	6.8
Naphthalene	mg/kg	8.6	0.048 J	0.079 U	0.51	0.25	0.010	0.14	0.11	0.13	0.1 J	101
N-Nitrosodiphenylamine	mg/kg	470	0.070 U	0.077 U	0.071 U	0.022 J	0.072 U	0.088 U	0.071 U	0.079 U	0.073 U	0.4 U
Phenanthrene	mg/kg		0.13	0.012 J	0.3	0.055	0.048	0.02	0.23	0.05	0.24	54.6
Phenol	mg/kg	250,000	0.070 U	0.077 U	0.071 U	0.086 U	0.072 U	0.024 J	0.071 U	0.079 U	0.073 R	0.29 J
Pyrene	mg/kg	23,000	0.86	0.012 J	0.4	0.17	0.072 0	0.0055 J	0.23	0.052	0.34 J	53.2
PCBs							5.507			0.001	0.010	
Aroclor 1248	mg/kg	0.94	N/A	N/A	0.0613 U	N/A	0.0529 U	N/A	0.0556 U	N/A	0.0524 U	N/A
Aroclor 1248 Aroclor 1254	mg/kg	0.94	N/A N/A	N/A N/A	0.0613 U	N/A N/A	0.0529 U	N/A N/A	0.0556 U	N/A N/A	0.0524 U 0.0524 U	N/A N/A
Aroclor 1254 Aroclor 1260	mg/kg	0.97	N/A N/A	N/A N/A	0.0613 U 0.0613 U	N/A N/A	0.0529 U	N/A N/A	0.0556 U	N/A N/A	0.0524 U 0.0524 U	N/A N/A
		0.99										
PCBs (total)	mg/kg	0.9/	N/A	N/A	0.0613 U	N/A	0.0529 U	N/A	0.0556 U	N/A	0.0524 U	N/A
TPH/Oil and Grease	и	(200	E4 2	30.0		487	20.5	7 11	A1 8	42 =	00 = 1	0.250 -
Diesel Range Organics	mg/kg	6,200	54.3	29.8	32.1	176	39.5	74.1	91.7	43.7	92.7 J	9,370 J
Gasoline Range Organics Oil and Grease	mg/kg	6,200 6,200	10.7 U 714	11.2 U 809	11.8 U 861	14.3 U 997	11.5 U 199	11.2 U 1,510	11.2 U 423	11.1 U 1,060	8.9 U 493	119 50,600
	mg/kg											

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

^PAH compounds were analyzed via SIM

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

UJ: This analye was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

Parameter	Units	PAL	A11-001-SB-1*	A11-001-SB-5*	A11-002-SB-1*	A11-002-SB-7*	A11-002-SB-10*	A11-003-SB-1*	A11-003-SB-5*	A11-017-SB-1	A11-017-SB-5	A11-017-SB-10	A11-019-SB-1
Parameter	Units	PAL	8/1/2016	8/1/2016	8/1/2016	8/1/2016	8/1/2016	8/1/2016	8/1/2016	7/29/2016	7/29/2016	7/29/2016	7/29/2016
Metal													
Aluminum	mg/kg	1,100,000	14,300	14,400	39,300	16,500	N/A	34,100	12,700	9,590	10,100	N/A	7,840
Antimony	mg/kg	470	2.5 U	2.5 U	2.9 U	2.8 U	N/A	2.5 U	13.9	2.7 UJ	3.3 UJ	N/A	2.7 UJ
Arsenic	mg/kg	3	4.6	3.1	2.4	7.9	4.3	4.9	7.5	4.1	8.4	3.6	2.3
Barium	mg/kg	220,000	70.5	69.4	528	171	N/A	294	66.9	106 J	124 J	N/A	188 J
Beryllium	mg/kg	2,300	0.68 J	0.56 J	4.9	1.1	N/A	5	0.49 J	0.5 J	0.46 J	N/A	0.88 U
Cadmium	mg/kg	980	0.38 B	0.18 B	0.61 B	1.1 B	N/A	0.58 B	2.2	0.7 B	1 B	N/A	0.74 B
Chromium	mg/kg	120,000	77.3	22.6	19.6	202	N/A	57.3	37.3	873	40.8	N/A	1,530
Chromium VI	mg/kg	6.3	0.32 B	0.42 B	0.41 B	0.38 B	N/A	0.38 B	0.29 B	0.5 B	1.3 UJ	N/A	0.47 B
Cobalt	mg/kg	350	9	7.9	2.2 J	8.6	N/A	3.1 J	8.6	7	11.1	N/A	3.2 J
Copper	mg/kg	47,000	26.2	11.8	14.5	34.6	N/A	16.5	2,890	72.1	54.3	N/A	60.8
Iron	mg/kg	820,000	24,600	18,000	13,200	56,700	N/A	50,100	58,900	218,000	18,700	N/A	229,000
Lead	mg/kg	800	46.8	23.9	11.8	90.2	N/A	13	1,020	225 J	124 J	N/A	20.5 J
Manganese	mg/kg	26,000	2,430	249	4,910	10,200	N/A	2,920	927	18,800	566	N/A	24,000
Mercury	mg/kg	350	0.084 J	0.065 J	0.0091 J	0.054 J	N/A	0.0039 J	0.037 J	0.026 J-	0.094 J-	N/A	0.0042 J-
Nickel	mg/kg	22,000	16.4	12.2	6 J	18.8	N/A	11.9	25.4	54.3	15.1	N/A	38.2
Selenium	mg/kg	5,800	3.3 U	3.4 U	2.9 J	3.8 U	N/A	3.6	3.5 U	3.6 U	4.4 U	N/A	3.5 U
Silver	mg/kg	5,800	2.5 U	2.5 U	2.9 U	2.8 U	N/A	2.5 U	0.76 J	2.7 U	3.3 U	N/A	1.1 J
Thallium	mg/kg	12	8.3 U	8.5 U	9.8 U	6.8 J	N/A	8.5 U	8.8 U	26.9	11 U	N/A	38.3
Vanadium	mg/kg	5,800	184	40	42.9	522	N/A	131	46.8	2,150 J	79.8 J	N/A	3,050 J
Zinc	mg/kg	350,000	136	68.9	45	391	N/A	62.4	1,490	171 J	230 J	N/A	133 J
Other													
Cyanide	mg/kg	150	0.16 B	0.23 B	0.4 B	0.41 B	N/A	1.4	0.55 B	0.28 J	0.19 J	N/A	0.3 J-

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.

Danamatan	Units	DAI	A11-019-SB-4	A11-024-SB-1*	A11-024-SB-9*	A11-024-SB-10*	A11-024S-SB-4*	A11-025-SB-1	A11-025-SB-4	A11-027-SB-11	A11-027-SB-15	A11-029-SB-1
Parameter	Units	PAL	7/29/2016	8/9/2016	8/9/2016	8/9/2016	8/15/2018	8/10/2016	8/10/2016	8/11/2016	8/11/2016	8/10/2016
Metal												
Aluminum	mg/kg	1,100,000	36,900	40,400	7,370	N/A	19,300	11,600	14,200	9,810	9,410	10,200
Antimony	mg/kg	470	2.8 UJ	2.4 U	3.3 U	N/A	2.8 U	3.3 U	2. 5U	2.2 U	2.6 U	2.5 UJ
Arsenic	mg/kg	3	2.7	3.4	5.4	5.3	14.7	8.4	7.5	5.9	15.9	3.9
Barium	mg/kg	220,000	389 J	278	321	N/A	272	88.3	206	200	154	171 J
Beryllium	mg/kg	2,300	4.6	4.6	0.23 J	N/A	0.93 U	1.1 J	1.0	0.58 J	0.85 J	0.34 J
Cadmium	mg/kg	980	0.41 B	0.55 B	0.9 B	N/A	0.9 J	1.8	1.6	1.3	1.8	0.37 J
Chromium	mg/kg	120,000	20.4	27.5	432	N/A	989	128	434	484	79.1	365
Chromium VI	mg/kg	6.3	0.33 B	0.49 B	0.48 B	N/A	N/A	0.37 J	0.40 J	0.55 J	0.37 J	0.52 B
Cobalt	mg/kg	350	2.4 J	1.8 J	2.6 J	N/A	3.2 J	10.3	18.2	7.1	6.2	6.3 J
Copper	mg/kg	47,000	10.3	16.8	63.7	N/A	169	49.5	209	59.3	42.2	43.2 J
Iron	mg/kg	820,000	14,100	15,100	55,400	N/A	36,300	55,800	107,000	128,000	54,800	83,600
Lead	mg/kg	800	19.4 J	60.9	95.2	N/A	108	153	249	78.3	96.2	55.8
Manganese	mg/kg	26,000	4,130	2,720	20,300	N/A	17,400	3,520	3,040	9,130	2,520	9,620
Mercury	mg/kg	350	0.0083 J-	0.11 U	0.33	N/A	16.1	0.14	0.071 J	0.0040 J	0.086 J	0.0089 J-
Nickel	mg/kg	22,000	3.2 J	5.1 J	10.1 J	N/A	13.9	39.9	70.5	64.1	25.7	61.5 J
Selenium	mg/kg	5,800	2.9 J	3 J	4.3 U	N/A	2.9 J	4.4 U	3.3 U	3.0 U	3.4 U	3.4 U
Silver	mg/kg	5,800	2.8 U	2.4 U	3.3 U	N/A	34.1	3.3 U	1.1 J	0.85 J	2.6 U	2.5 U
Thallium	mg/kg	12	9.3 U	7.9 U	17.5	10.6 U	9.3 U	11.1 U	8.4 U	12.0	8.6 U	8.4 U
Vanadium	mg/kg	5,800	66.5 J	50.2	1,610	N/A	6,760	106	229	999	157	575
Zinc	mg/kg	350,000	30.8 J	165	165	N/A	86.4	994	611	254	378	129
Other												
Cyanide	mg/kg	150	0.35 J-	0.71	2.6	N/A	1.6	1.6	3.3	0.8	2.1	0.46 J-

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.

Danamatan	T Luita	DAI	A11-029-SB-5	A11-030-SB-1	A11-030-SB-4	A11-031-SB-6	A11-031-SB-10	A11-033-SB-1*	A11-034-SB-1*	A11-034-SB-5*	A11-035-SB-1	A11-035-SB-4	A11-035-SB-10
Parameter	Units	PAL	8/10/2016	8/10/2016	8/10/2016	8/11/2016	8/11/2016	8/9/2016	8/9/2016	8/9/2016	8/12/2016	8/12/2016	8/12/2016
Metal													
Aluminum	mg/kg	1,100,000	12,600	7,520	3,410	3,190	11,100	37,100	7,710	3,390	20,800	10,800	N/A
Antimony	mg/kg	470	3.9 UJ	2.6 UJ	3.3 UJ	2.8 U	2.8 U	2.2 U	2.6 U	2.3 U	2.4 UJ	3 UJ	N/A
Arsenic	mg/kg	3	11.7	5.9	2.7 U	2.7	4.6	4.3	2.2 U	4.5	2 U	3.9 J	2.4 J
Barium	mg/kg	220,000	194 J	110 J	88.6 J	77.5	153	290	139	25.2	183 J	116 J	N/A
Beryllium	mg/kg	2,300	0.91 J	0.21 J	1.1 U	0.92 U	1.2	5	0.88 U	0.76 U	3.1	1.1	N/A
Cadmium	mg/kg	980	11	0.89 J	0.5 J	0.38 J	0.90 J	1.6 B	0.8 B	0.45 B	2.5	1.1 B	N/A
Chromium	mg/kg	120,000	173	898	1,090	241	40.3	130	2,850	86.9	722	654	N/A
Chromium VI	mg/kg	6.3	0.4 B	0.48 B	1.9	0.45 J	0.38 J	0.35 B	4.1	0.41 B	0.34 B	0.35 B	N/A
Cobalt	mg/kg	350	14.2 J	6.3 J	5.4 U	2.8 J	8.6	2.8 J	5.1	4	1.4 J	6.5	N/A
Copper	mg/kg	47,000	173 J	73.7 J	13.3 J	20.6	82.3	30.2	37.1	46.9	40.8	68.5	N/A
Iron	mg/kg	820,000	70,500	250,000	124,000	43,200	30,500	46,400	179,000	43,800	129,000 J	138,000 J	N/A
Lead	mg/kg	800	3,560	39.3	15.5	17.4	91.1	33.7	56.1	32.5	96.5	106	N/A
Manganese	mg/kg	26,000	4,030	23,900	23,500	6,190	1,330	4,870	23,500	3,790	17,200	21,500	N/A
Mercury	mg/kg	350	0.32 J-	0.019 J-	0.13 UJ	0.015 J	0.067 J	0.1 U	0.014 J	0.41	0.055 J-	0.026 J-	N/A
Nickel	mg/kg	22,000	59.6 J	39 J	6.9 B	48.9	19.3	14.6	29.5	13.4	23.2	37.8	N/A
Selenium	mg/kg	5,800	5.2 U	3.5 U	4.3 U	3.7 U	3.7 U	3 U	3.5 U	3 U	3.2 U	3.9 U	N/A
Silver	mg/kg	5,800	1.5 J	1.8 J	3.3 U	2.8 U	2.8 U	2.2 U	2.6 U	2.3 U	1.3 J	3 U	N/A
Thallium	mg/kg	12	13 U	8.8 J	10.9 U	6.2 J	9.3 U	7.5 U	34.6	7.6 U	8 J	19.5 J	10.5 U
Vanadium	mg/kg	5,800	391	2,500	1,130	442	78.6	257	3,050	101	610 J	1,560 J	N/A
Zinc	mg/kg	350,000	1,380	152	30.8	56.9	199	226	141	151	1,250	300	N/A
Other													
Cyanide	mg/kg	150	1.5 J-	1.6 J-	0.86 J-	0.62 J	0.95	0.53	0.52 J	0.33 B	2.1 J-	2.9 J-	N/A

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.

Doromotor	Units	PAL	A11-036-SB-1	A11-036-SB-5	A11-037-SB-1*	A11-037-SB-5*	A11-037-SB-10*	A11-040-SB-1*	A11-040-SB-4*	A11-040-SB-10*	A11-050-SB-1*	A11-050-SB-4*
Parameter	Units	PAL	8/15/2016	8/15/2016	8/1/2016	8/1/2016	8/1/2016	8/9/2016	8/9/2016	8/9/2016	8/1/2016	8/1/2016
Metal												
Aluminum	mg/kg	1,100,000	4,570	3,310	6,460	13,100	N/A	5,190	25,900	7,770	23,500	16,700
Antimony	mg/kg	470	2.6 UJ	2.5 UJ	2.7 U	3 U	N/A	2.8 U	3.3 U	2.8 U	2.5 U	2.3 U
Arsenic	mg/kg	3	2.2 U	2.1 U	2.3 U	4	4.7	5	10	16.5	4.9	8.9
Barium	mg/kg	220,000	55.5 J	94.1 J	109	82.6	N/A	111	240	112	192	197
Beryllium	mg/kg	2,300	0.47 J	0.85 U	0.91 U	0.84 J	N/A	0.27 J	2.2	0.48 J	3.4	1.1
Cadmium	mg/kg	980	0.39 B	0.61 B	1.2 B	0.45 B	N/A	1.3 B	2 B	3.4	2.2	5.9
Chromium	mg/kg	120,000	303	848	1,620	42.8	N/A	805	521	321	390	362
Chromium VI	mg/kg	6.3	0.54 B	1.4 J-	1 B	0.39 B	N/A	1.5 B	0.47 B	0.74 B	0.39 B	0.41 B
Cobalt	mg/kg	350	4.3 U	4.2 U	0.65 J	9.3	N/A	5.8	52	6.8	6.1	8.7
Copper	mg/kg	47,000	3.7 J	26 J	31.9	20.9	N/A	84.9	105	428	54.1	81.7
Iron	mg/kg	820,000	90,800 J	208,000 J	185,000	19,300	N/A	225,000	120,000	62,500	81,800	96,500
Lead	mg/kg	800	5.4	7.5	50.3	73.6	N/A	57.7	234	375	84	217
Manganese	mg/kg	26,000	7,820	20,200	27,300	743	N/A	19,500	2,810	6,980	8,330	8,530
Mercury	mg/kg	350	0.11 U	0.11 U	0.0064 J	0.14	N/A	0.024 J	0.041 J	0.18	0.057 J	0.068 J
Nickel	mg/kg	22,000	3.9 J	27.6	15.2	19.5	N/A	44.2	345	31.7	43.4	42.1
Selenium	mg/kg	5,800	3.5 U	3.4 U	3.6 U	4 U	N/A	3.7 U	4.4 U	3.7 U	3.3 U	1.9 J
Silver	mg/kg	5,800	2.6 U	2.5 U	2.7 U	3 U	N/A	1.9 J	0.99 J	0.78 J	2.5 U	2.3 U
Thallium	mg/kg	12	8.6 UJ	8.5 UJ	38.7	10.1 U	N/A	32.8	11 U	9.9	6.7 J	4.6 J
Vanadium	mg/kg	5,800	1,280	3,330	3,420	76.1	N/A	2,880	177	803	525	368
Zinc	mg/kg	350,000	27	28.6	279	131	N/A	235	1,460	1,640	486	764
Other												
Cyanide	mg/kg	150	0.6 UJ	0.14 J-	0.36 B	0.43 B	N/A	0.8	1.4	17.9	3.5	0.64

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.

Parameter	Units	PAL	A11-053-SB-1	A11-053-SB-9	A11-054-SB-1*	A11-054-SB-4*	A11-055-SB-1*	A11-055-SB-5*	A11-056-SB-1*	A11-056-SB-5*	A11-056-SB-10*	A11-057-SB-1	A11-057-SB-5
Farameter	Onns	FAL	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016	8/10/2016	8/10/2016
Metal													
Aluminum	mg/kg	1,100,000	16,200	44,900	14,900	4,250	6,140	8,190	4,970	13,800	N/A	6,550	18,300
Antimony	mg/kg	470	2.2 U	2.5 U	2.5 U	3 U	2.6 U	2 J	2.3 U	2.5 U	N/A	2.3 UJ	2.9 UJ
Arsenic	mg/kg	3	5.5	3.3	3.7	18.2	2.2 U	35	7.3	5	7.3	5	9.5
Barium	mg/kg	220,000	229	495	131	96.7	91.4	793	155	103	N/A	71.2 J	474 J
Beryllium	mg/kg	2,300	1.6	5.9	1.4	0.99 U	0.87 U	0.94 J	0.77 U	0.86	N/A	0.78 U	1.1
Cadmium	mg/kg	980	0.99 J	0.45 J	2.2 B	0.62 B	1.1 B	13.2	0.81 B	0.62 B	N/A	0.75 J	11.4
Chromium	mg/kg	120,000	227	22.2	446	1,010	1,220	384	792	55.9	N/A	1,200	353
Chromium VI	mg/kg	6.3	0.47 J	0.43 J	0.48 B	0.83 B	4	0.37 B	2.4 B	0.39 B	N/A	0.94 B	0.33 B
Cobalt	mg/kg	350	8.4	2.9 J	7.6	23.6	4.3 U	23.2	7.1	16.4	N/A	2.6 J	9.4 J
Copper	mg/kg	47,000	86.2	12.3	63.5	245	34.2	1,270	101	18.2	N/A	47.5 J	98.4 J
Iron	mg/kg	820,000	124,000	38,000	107,000	428,000	191,000	108,000	281,000	28,800	N/A	232,000	116,000
Lead	mg/kg	800	79.8	16.6	176	35.8	32.8	1,420	61.5	54.1	N/A	35.9	288
Manganese	mg/kg	26,000	5,160	4,200	11,500	23,000	30,300	4,090	20,900	1,210	N/A	22,900	9,710
Mercury	mg/kg	350	0.0025 J	0.12 U	0.029 J	0.028 J	0.017 J	0.14	0.016 J	0.091 J	N/A	0.038 J-	0.12 J-
Nickel	mg/kg	22,000	40.4	5.4 J	26.3	104	11.5	227	49.8	42	N/A	29.6 J	135 J
Selenium	mg/kg	5,800	3.0 U	4.4	3.3 U	4 U	3.5 U	4.9 U	3.1 U	3.4 U	N/A	3.1 U	3.9 U
Silver	mg/kg	5,800	0.59 J	2.5 U	0.63 J	4.9	2.6 U	7.9	2.5	2.5 U	N/A	1.4 J	0.82 J
Thallium	mg/kg	12	7.5 U	8.3 U	12.5	29.1	19.1	12.1 U	29.3	8.4 U	N/A	7.8 U	9.8 U
Vanadium	mg/kg	5,800	292	91.1	1,050	2,530	1,620	92.3	2,640	61.8	N/A	1,650	834
Zinc	mg/kg	350,000	322	44.8	608	136	189	4,390	116	191	N/A	123	1,720
Other													
Cyanide	mg/kg	150	1.5	1.3	0.49 J	0.87	0.52 J	0.66 J	0.89	0.73	N/A	0.67 J-	0.78 J-

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.

Parameter	Units	PAL	A11-014-PZ* 7/25/2018	A11-015-PZ* 7/24/2018	A11-016EE-PZ* 8/14/2018	A11-016F-PZ* 8/15/2018	A11-016J-PZ* 8/15/2018	A11-016LL-P2 8/13/2018
Volatile Organic Compounds				-	-			
1,1,2,2-Tetrachloroethane	μg/L	0.076	1 U	1 U	5 U	5 U	5 U	1 U
1,1-Dichloroethane	μg/L	2.7	1 U	1 U	5 U	5 U	5 U	1 U
1,2,4-Trichlorobenzene	μg/L	70	1 U	1 U	5 U	5 U	5 U	1 U
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	μg/L μg/L	0.2	N/A 5 U	N/A 5 U	N/A 25 U	N/A 25 U	N/A 25 U	N/A 5 U
1,2-Dichlorobenzene	μg/L μg/L	600	1 U	1 U	5 U	5 U	5 U	1 U
1,2-Dichloroethane	μg/L μg/L	5	1 U	1 U	5 U	5 U	5 U	1 U
1,2-Dichloroethene (Total)	μg/L μg/L	70	2 U	2 U	8.9 J	10 U	10 U	2 U
1,2-Dichloropropane	μg/L	5	1 U	1 U	5 U	5 U	5 U	1 U
1,3,5-Trimethylbenzene	μg/L		N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	μg/L		1 U	1 U	5 U	5 U	5 U	1 U
1,4-Dichlorobenzene	μg/L	75	1 U	1 U	5 U	5 U	5 U	1 U
2-Butanone (MEK)	μg/L	5,600	10 U	10 U	50 U	19.7 J	14.3 J	10 U
2-Hexanone	μg/L	38	10 U	10 U	50 U	50 U	50 U	10 U
4-Methyl-2-pentanone (MIBK)	μg/L	1,200	10U	10 U	50 U	50 U	50 U	10 U
Acetone	μg/L	14,000	2.9 J	4.6 J	53.8	85.9	103	8.8 J
Benzene	μg/L	5	96.8	2,680	35,600	347,000	303,000	1 U
Bromodichloromethane	µg/L	0.13	1 U	1 U	5 U	5 U	5 U	1 U
Bromoform Carbon disulfide	μg/L μg/I	3.3 810	1 U 1 U	1 U 1 U	5 U 5 U	5 U	5 U	1 U 1 U
Carbon disulfide	μg/L μg/L	810 5	1 U 1 U	1 U 1 U	5 U 5 U	40.4	34.2 5 U	1 U 1 U
Carbon tetrachloride	μg/L μg/L	5 100	1 U 1 U	1 U 1 U	5 U 5 U	20.3 1.2 J	0.93 J	1 U 1 U
Chloroform	μg/L μg/L	0.22	1 U	1 U	5 U	1.2 J 21.7	0.93 J 8.7	1 U
Chloromethane	μg/L μg/L	190	1 U	1 U	5 U	5 U	5 U	1.3
cis-1,2-Dichloroethene	μg/L μg/L	70	1 U	1 U	8.9	5 U	5 U	1.5 1 U
cis-1,3-Dichloropropene	μg/L μg/L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 U	1 U	5 U	5 U	5 U	1 U
Cyclohexane	μg/L	13,000	10 U	10 U	50 U	13.9 J	18.5 J	10 U
Ethylbenzene	μg/L	700	1 U	6.6	37	90.2	107	1 U
sopropylbenzene	μg/L	450	1 U	0.74 J	3.1 J	7.4	8.7	1 U
Methyl Acetate	μg/L	20,000	5 U	5 U	25 U	25 U	25 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	14	1 U	1 U	5 U	5 U	5 U	1 U
Methylene Chloride	μg/L	5	1 U	2	5 U	5 U	5 U	1 U
Naphthalene	μg/L	0.12	N/A	N/A	N/A	N/A	N/A	N/A
Styrene	μg/L	100	1 U	0.48 J	5 U	5 U	5 U	1 U
Fetrachloroethene	μg/L	5	1 U	1 U	5 U	5 U	5 U	1 U
Foluene	μg/L	1,000	3.3	7.1	1,080	13,400	4,620	1 U
rans-1,2-Dichloroethene	μg/L	100	1 U	1 U	5 U	5 U	5 U	1 U
Trichloroethene	μg/L	5	1 U	1 U	5 U	5 U	5 U	1 U
Trichlorofluoromethane	μg/L	1,100	1 U	1 U	5 U	5 U	5 U	1 U
Vinyl chloride	μg/L	2 10,000	1 U 3 U	1 U	3.3 J	5 U	5 U	1 U 3 U
Xylenes Semi-Volatile Organic Compounds^	μg/L	10,000	30	52.5	832	2,960	2,320	30
1,1-Biphenyl	ug/I	0.83	N/A	N/A	N/A	N/A	N/A	N/A
1.2.4-Trichlorobenzene	μg/L μg/L	70	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
1,2-Dichlorobenzene	μg/L μg/L	600	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
1.3-Dichlorobenzene	μg/L	000	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	μg/L	75	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dioxane	μg/L	0.46	0.097 U	0.098 U	0.098 U	0.099 U	0.098 U	0.1 U
2,4-Dimethylphenol	μg/L	360	N/A	N/A	N/A	N/A	N/A	N/A
2-Chlorophenol	μg/L	91	N/A	N/A	N/A	N/A	N/A	N/A
2-Methylnaphthalene	μg/L	36	2.2	8.6	184	278	211	0.053 J
2-Methylphenol	μg/L	930	N/A	N/A	N/A	N/A	N/A	N/A
3&4-Methylphenol(m&p Cresol)	μg/L	930	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	μg/L	0.12	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthene	μg/L	530	0.23	23.6	18	1.8	5.5	0.1 U
Acenaphthylene	μg/L	530	0.14	7.4	105	0.4	2.2	0.1 U
Acetophenone	μg/L	1,900	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	μg/L α/I	1,800	0.3	10.7	63.9	0.94	3.1	0.048 J 0.1 U
Benz[a]anthracene Benzo[a]pyrene	μg/L μg/L	0.03 0.2	0.28 0.11	6.4 5.3	45.4 19	0.31 0.19	0.1 0.049 J	0.1 U 0.1 U
Benzo[a]pyrene Benzo[b]fluoranthene	μg/L μg/L	0.2	0.11	5.5	50.1	0.19	0.049 J 0.091 J	0.1 U 0.1 U
Benzo[g,h,i]perylene	μg/L μg/L	0.23	0.18 0.083 J	2.6	5.9	0.29 0.072 J	0.091 J 0.098 U	0.1 U 0.1 U
Benzo[k]fluoranthene	μg/L μg/L	2.5	0.085 J	8	16.7	0.13	0.098 C	0.1 U
bis(2-Ethylhexyl)phthalate	μg/L μg/L	6	N/A	N/A	N/A	0.13 N/A	N/A	0.1 C N/A
Caprolactam	μg/L μg/L	9,900	N/A	N/A	N/A	N/A	N/A	N/A
Carbazole	μg/L	- ,	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	μg/L	25	0.23	5.2	15.2	0.27	0.071 J	0.1 U
Dibenz[a,h]anthracene	μg/L	0.025	0.097 U	0.9	2.8	0.099 U	0.098 U	0.1 U
Diethylphthalate	μg/L	15,000	N/A	N/A	N/A	N/A	N/A	N/A
Fluoranthene	μg/L	800	1.2	21.1	178	1.3	2.1	0.081 J
Fluorene	μg/L	290	3.1	43.1	176	16.4	13.6	0.042 J
ndeno[1,2,3-c,d]pyrene	μg/L	0.25	0.076 J	2.6	7	0.072 J	0.098 U	0.1 U
Naphthalene	μg/L	0.12	39.5	640	14,100	7,600	7,730	0.6
N-Nitroso-di-n-propylamine	μg/L	0.011	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	μσ/Γ.	II 1	N/A	N/A	N/A	N/A	N/A	N/A

Pentachlorophenol	μg/L	1	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene	μg/L		3.8	59.9	311	11.5	116	0.14
Phenol	μg/L	5,800	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	μg/L	120	0.62	14.9	127	0.88	0.8	0.051 J
Pyridine	μg/L		N/A	N/A	N/A	N/A	N/A	N/A
TPH/Oil & Grease								
Diesel Range Organics	μg/L	47	1,130	1,710	16,700	15,800	15,400	338
Gasoline Range Organics	μg/L	47	1,350	4,540	74,300	585,000	764,000	200 U
Oil & Grease	μg/L	47	4,750 U	1,100 J	4,750 U	4,770 U	4,750 U	4,750 U

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Parameter	Units	PAL			A11-016NN-PZ*		A11-016QQ-PZ*	
Volatile Organic Compounds			8/15/2018	8/13/2018	8/13/2018	7/24/2018	8/14/2018	8/14/2018
1,1,2,2-Tetrachloroethane	μg/L	0.076	5 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	μg/L	2.7	5 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	µg/L	70	5 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	μg/L		N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	μg/L 	0.2	25 U 5 U	5 U 1 U	5 U 1 U	5 U 1 U	5 U 1 U	5 U 1 U
1,2-Dichlorobenzene 1,2-Dichloroethane	μg/L μg/L	5	5 U	1 U	1 U 1 U	1 U	1 U	1 U 1 U
1,2-Dichloroethene (Total)	μg/L μg/L	70	10 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichloropropane	μg/L	5	5 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	μg/L		N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	μg/L		5 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	μg/L	75	5 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	μg/L	5,600 38	50 U 50 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U
2-Hexanone 4-Methyl-2-pentanone (MIBK)	μg/L μg/L	1,200	5.9 J	10 U	10 U	0.55 J	10 U	10 U
Acetone	μg/L	14,000	51	10.0	36.6	8.5 J	10.3	6.3 J
Benzene	μg/L	5	282,000	1 U	1 U	6,890	1,920	664
Bromodichloromethane	μg/L	0.13	5 U	1 U	1 U	1 U	1 U	1 U
Bromoform	μg/L	3.3	5 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	μg/L	810	13.2	1 U	1 U	1 U	0.56 J	0.32 J
Carbon tetrachloride	μg/L μg/I	5	5 U	1 U 1 U	1 U	1 U	1 U	1 U
Chlorobenzene Chloroform	μg/L μg/L	100 0.22	0.8 J 15.5	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
Chloromethane	μg/L μg/L	190	5 U	1.5	1.2	1 U	1 U	1 U 1 U
cis-1,2-Dichloroethene	μg/L μg/L	70	5 U	1.5 1 U	1.2 1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	μg/L		5 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	μg/L	13,000	19.9 J	10 U	10 U	0.73 J	0.64 J	10 U
Ethylbenzene	μg/L	700	102	1 U	1 U	16.8	7.7	0.59 J
Isopropylbenzene	μg/L α/I	450	10.1	1 U	1 U	2.4	1.6	1 U
Methyl Acetate Methyl tert-butyl ether (MTBE)	μg/L μg/L	20,000 14	25 U 5 U	5 U 1 U	1.1 J 1 U	5 U 1 U	5 U 1 U	5 U 1 U
Methylene Chloride	μg/L μg/L	5	5 U	10	1 U	1 U	1 U	1 U 1 U
Naphthalene	μg/L	0.12	N/A	N/A	N/A	N/A	N/A	N/A
Styrene	μg/L	100	5 U	1 U	1 U	0.7 J	1 U	1 U
Tetrachloroethene	μg/L	5	5 U	1 U	1 U	1 U	1 U	1 U
Τ-1	/T	1,000	12,100	0.36 J	1 U	934	234	7.1
Toluene	μg/L	/					1 1 1	1 U
trans-1,2-Dichloroethene	μg/L	100	5 U	1 U	1 U	1 U	1 U	
trans-1,2-Dichloroethene Trichloroethene	μg/L μg/L	100 5	5 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane	μg/L μg/L μg/L	100 5 1,100	5 U 5 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride	μg/L μg/L μg/L μg/L	100 5	5 U 5 U 5 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane	μg/L μg/L μg/L	100 5 1,100 2	5 U 5 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl	μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U	1 U 1 U 1 U 3 U	1 U 1 U 1 U 318	1 U 1 U 1 U 264	1 U 1 U 1 U 7.8
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000 0.83 70	5 U 5 U 5 U 2,860 N/A N/A	1 U 1 U 1 U 3 U N/A N/A	1 U 1 U 1 U 3 U N/A N/A	1 U 1 U 1 U 318 N/A N/A	1 U 1 U 1 U 264 N/A N/A	1 U 1 U 1 U 7.8 N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000	5 U 5 U 5 U 2,860 N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A	1 U 1 U 1 U 318 N/A N/A N/A	1 U 1 U 264 N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000 0.83 70 600	5 U 5 U 5 U 2,860 N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A	1 U 1 U 264 N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000 0.83 70 600 75	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A N/A	1 U 1 U 318 N/A N/A N/A N/A N/A	1 U 1 U 264 N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000 0.83 70 600 75 0.46	5 U 5 U 5 U 2,860 N/A N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U	1 U 1 U 318 N/A N/A N/A N/A N/A N/A 0.098 U	1 U 1 U 264 N/A N/A N/A N/A N/A 0.099 U	1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000 0.83 70 600 75	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A 0.097 U	1 U 1 U 3 U N/A N/A N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A N/A	1 U 1 U 318 N/A N/A N/A N/A N/A	1 U 1 U 264 N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 5 1,100 2 10,000 0.83 70 600 75 0.46 360	5 U 5 U 5 U 2,860 N/A N/A N/A N/A 0.097 U N/A N/A 336	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.035 J	1 U 1 U 3 U N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U	1 U 1 U 318 N/A N/A N/A N/A N/A 0.098 U N/A	1 U 1 U 264 N/A N/A N/A N/A N/A 0.099 U N/A	1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.89
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol	μg/L	$ \begin{array}{r} 100 \\ 5 \\ 1,100 \\ 2 \\ 10,000 \\ \hline 0.83 \\ 70 \\ 600 \\ \hline 75 \\ 0.46 \\ 360 \\ 91 \\ 36 \\ 930 \\ \hline \end{array} $	5 U 5 U 5 U 2,860 N/A N/A N/A N/A 0.097 U N/A N/A 336 N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.035 J N/A	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A 0.099 U N/A	1 U 1 U 318 N/A N/A N/A N/A 0.098 U N/A N/A 55.4 N/A	1 U 1 U 264 N/A N/A N/A N/A 0.099 U N/A N/A 227 N/A	1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.89 N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol)	μg/L	$\begin{array}{r} 100 \\ 5 \\ 1,100 \\ 2 \\ 10,000 \\ \hline \\ 0.83 \\ \hline 70 \\ 600 \\ \hline \\ 75 \\ 0.46 \\ 360 \\ 91 \\ \hline \\ 36 \\ 930 \\ 930 \\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.035 J N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A 0.098 U N/A N/A S5.4 N/A N/A	1 U 1 U 264 N/A N/A N/A N/A N/A 0.099 U N/A N/A 227 N/A N/A	1 U 1 U 7.8 7.8 N/A N/A N/A N/A 0.099 U N/A N/A 0.89 N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ 36\\ 930\\ 930\\ 0.12\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A N/A N/A N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 264 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A	1 U 1 U 7.8 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ 36\\ 930\\ 930\\ 0.12\\ 530\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 264 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A N/A N/A S	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.89 N/A N/A N/A 0.89 N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ 36\\ 930\\ 930\\ 0.12\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A N/A N/A N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 264 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A	1 U 1 U 7.8 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ 36\\ 930\\ 930\\ 0.12\\ 530\\ 530\\ 1,900\\ 1,800\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A N/A 0.035 J N/A N/A N/A 0.035 J N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.89 N/A N/A N/A 0.89 N/A N/A 0.18 0.25
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthylene Acetophenone Anthracene Benz[a]anthracene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ 36\\ 930\\ 0.12\\ 530\\ 530\\ 1,900\\ 1,800\\ 0.03\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A N/A 0.18 0.25 N/A 0.9 1.1
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ 36\\ 930\\ 930\\ 0.12\\ 530\\ 530\\ 1,900\\ 1,800\\ 0.03\\ 0.2\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.89 N/A N/A N/A 0.18 0.25 N/A 0.9 1.1 0.75
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ 36\\ 930\\ 0.12\\ 530\\ 530\\ 1,900\\ 1,800\\ 0.03\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ \hline \\ 36\\ 930\\ 0.12\\ 530\\ \hline \\ 530\\ 1,900\\ 1,800\\ 0.03\\ 0.2\\ 0.25\\ \hline \\ \hline \end{array}$	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.43 0.43
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3,3'-Dichlorobenzidine Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[g,h,i]perylene Benzo[k]fluoranthene	μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ \hline \\ 36\\ 930\\ 0.12\\ 530\\ \hline \\ 530\\ 530\\ \hline \\ 1,900\\ 1,800\\ 0.03\\ \hline \\ 0.2\\ 0.25\\ \hline \\ 2.5\\ \hline \end{array}$	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.035 J N/A N/A 0.035 J N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.041 J 0.099 U 0.023 J	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.49
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorob	μg/L μg/L	$\begin{array}{c} 100 \\ 5 \\ 1,100 \\ 2 \\ 10,000 \\ \hline \\ \hline \\ 0.83 \\ \hline 70 \\ 600 \\ \hline \\ 75 \\ 0.46 \\ 360 \\ 91 \\ \hline \\ 360 \\ 930 \\ 0.12 \\ 530 \\ \hline \\ 530 \\ 1,900 \\ 1,800 \\ 0.03 \\ \hline \\ 0.2 \\ 0.25 \\ \hline \\ 2.5 \\ \hline \\ 6 \\ \hline \end{array}$	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.035 J N/A N/A 0.035 J N/A N/A 0.099 U N/A 0.099 U 0.07 J 0.071 J 0.099 U 0.023 J N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.49 N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3,3'-Dichlorobenzidine Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[g,h,i]perylene Benzo[k]fluoranthene	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ \hline \\ 36\\ 930\\ 0.12\\ 530\\ \hline \\ 530\\ 530\\ \hline \\ 1,900\\ 1,800\\ 0.03\\ \hline \\ 0.2\\ 0.25\\ \hline \\ 2.5\\ \hline \end{array}$	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.035 J N/A N/A 0.035 J N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.041 J 0.099 U 0.023 J	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.49
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3,3'-Dichlorobenzidine Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene	μg/L μg/L	$\begin{array}{c} 100 \\ 5 \\ 1,100 \\ 2 \\ 10,000 \\ \hline \\ \hline \\ 0.83 \\ \hline 70 \\ 600 \\ \hline \\ 75 \\ 0.46 \\ 360 \\ 91 \\ \hline \\ 360 \\ 930 \\ 0.12 \\ 530 \\ \hline \\ 530 \\ 1,900 \\ 1,800 \\ 0.03 \\ \hline \\ 0.2 \\ 0.25 \\ \hline \\ 2.5 \\ \hline \\ 6 \\ 9,900 \\ \hline \\ 25 \\ \hline \end{array}$	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.035 J N/A N/A N/A 0.099 U N/A 0.09 J 0.07 J 0.071 J 0.099 U 0.023 J N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.49 N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthylene Acetophenone Anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene	μg/L μg/L	$\begin{array}{c} 100 \\ 5 \\ 1,100 \\ 2 \\ 10,000 \\ \hline \\ \hline \\ 0.83 \\ \hline 70 \\ 600 \\ \hline \\ 75 \\ 0.46 \\ 360 \\ 91 \\ \hline \\ 360 \\ 930 \\ 0.12 \\ 530 \\ \hline \\ 530 \\ 1,900 \\ \hline \\ 1,800 \\ 0.03 \\ 0.2 \\ \hline \\ 0.25 \\ \hline \\ 2.5 \\ 6 \\ 9,900 \\ \hline \\ 25 \\ 0.025 \\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A 0.035 J N/A N/A N/A 0.09 U N/A N/A 0.09 J 0.07 J 0.07 J 0.071 J 0.099 U 0.023 J N/A N/A N/A 0.099 U	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.43 0.49 N/A N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthylene Acetophenone Anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Diethylphthalate	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \\ 0.03\\ \hline \\ 0.2\\ \hline \\ 0.25\\ \hline \\ \hline \\ 2.5\\ \hline \\ 6\\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.071 J 0.099 U 0.023 J N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.89 N/A N/A 0.18 0.25 N/A 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.43 0.49 N/A N/A N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.041 J 0.099 U N/A N/A N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.041 J 0.099 U 0.023 J N/A N/A N/A N/A 0.023 J N/A N/A 0.023 J N/A N/A 0.023 J N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A N/A 0.023 J N/A N/A N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A 0.023 J N/A N/A N/A N/A 0.021 J	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U N/A	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.43 0.49 N/A N/A N/A 3
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Bictore Fluorene	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \\ 0.03\\ \hline \\ 0.2\\ \hline \\ 0.25\\ \hline \\ \hline \\ 6\\ \hline \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \end{array}$	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.04 J 0.099 U N/A 0.07 J 0.07 J 0.071 J 0.099 U N/A N/A N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.89 N/A N/A 0.18 0.25 N/A 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.43 0.49 N/A N/A N/A N/A 1.1 0.75 1.3 0.43 0.49 N/A N/A N/A N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Bittylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.07 J 0.071 J 0.099 U N/A N/A N/A N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.49 N/A N/A N/A 0.49 0.41 N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acetophenone Anthracene Benza[a]anthracene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Bittopicatam Carbazole Chrysene Dibenz[a,h]anthracene Bittopicatam Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Bittopicatam Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Statese	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.035 J N/A N/A 0.035 J N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.099 U N/A N/A N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.056	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.43 0.49 N/A N/A N/A 0.43 0.49 N/A N/A 0.43 0.44 N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Bittylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.07 J 0.071 J 0.099 U N/A N/A N/A N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.49 N/A N/A N/A 0.49 0.41 N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluoranthene Fluoranthene N-Nitroso-di-n-propylamine Pentachlorophenol	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.035 J N/A N/A 0.035 J N/A N/A 0.04 J 0.099 U N/A 0.09 U N/A 0.09 J 0.07 J 0.071 J 0.099 U N/A N/A N/A N/A N/A 0.09 U N/A 0.041 J 0.099 U N/A N/A N/A N/A 0.056 N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U	1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.75 1.3 0.43 0.43 0.43 0.49 N/A N/A N/A N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Diethylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene N-Nitroso-di-n-propylamine	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 18 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 N/A N/A N/A N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[b]fluoranthene Bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene N-Nitroso-di-n-propylamine Pentachlorophenol Pyrene	μg/L μg/L	100 5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.035 J N/A N/A 0.035 J N/A N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U 0.071 J 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U 0.0095 U 0.0055 J N/A	1 U 1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.44 N/A N/A N/A N/A 1.7 0.42 1.89 N/A N/A N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benz[a]anthracene Benz[b]fluoranthene Benzo[b]fluoranthene Benzo[b]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluorene Indeno[1,2,3-c,d]pyrene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol Pyrene Pyridine	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 18 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 N/A N/A N/A N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[b]fluoranthene Bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluorene Indeno[1,2,3-c,d]pyrene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol Pyrene Phenol Pyrene Pyridine TPH/Oil & Grease	μg/L μg/L	100 5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	5 U 5 U 5 U 2,860 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.035 J N/A N/A 0.04 J 0.099 U N/A 0.09 J 0.07 J 0.07 J 0.07 J 0.07 J 0.07 J 0.07 J 0.07 J 0.07 J 0.041 J 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U N/A N/A N/A N/A 0.099 U 0.099 U N/A N/A N/A N/A 0.099 U 0.099 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.43 0.43 0.43 0.43 0.49 N/A N/A N/A N/A N/A N/A N/A 0.9 1.1 0.75 1.3 0.43 0.43 0.43 0.43 0.43 0.43 N/A N/A N/A N/A N/A N/A N/A N/A
trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[b]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol Pyrene Pyridine	μg/L μg/L	$\begin{array}{c} 100\\ 5\\ 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ $	5 U 5 U 5 U 2,860	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.035 J N/A N/A 0.035 J N/A N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U N/A 0.099 U 0.071 J 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A 0.099 U 0.023 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A 0.099 U N/A N/A 0.099 U 0.099 U 0.0095 U 0.0055 J N/A	1 U 1 U 1 U 1 U 318 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 264 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 7.8 N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.18 0.25 N/A 0.9 1.1 0.75 1.3 0.44 N/A N/A N/A N/A 1.7 0.42 1.89 N/A N/A N/A

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Parameter	Units	PAL	A11-016VV-PZ* 8/13/2018	A11-017-PZ* 8/18/2016	A11-018-PZ* 7/24/2018	A11-024-PZ* 7/25/2018	A11-037-PZ 8/18/2016
Volatile Organic Compounds		0.077	4.0	4 **	4 **	4 **	
1,1,2,2-Tetrachloroethane	μg/L 	0.076	1.9	1 U 1 U	1 U	1 U	1 U 1 U
1,1-Dichloroethane 1.2.4-Trichlorobenzene	μg/L μg/I	2.7 70	3.1 0.63 J	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
1,2,4-Trimethylbenzene	μg/L μg/L	/0	0.63 J N/A	N/A	N/A	N/A	N/A
,2-Dibromo-3-chloropropane	μg/L μg/L	0.2	1.4 J	5 U	5 U	5 U	5 U
.2-Dichlorobenzene	μg/L μg/L	600	0.65 J	1 U	1 U	1 U	1 U
.2-Dichloroethane	μg/L μg/L	5	0.85 J	1 U	1 U	1 U	1 U
,2-Dichloroethene (Total)	μg/L μg/L	70	2 U	2 U	2 U	2 U	2 U
,2-Dichloropropane	μg/L μg/L	5	0.79 J	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	μg/L μg/L	5	N/A	N/A	N/A	N/A	N/A
.3-Dichlorobenzene	μg/L μg/L	_	1 1	1 U	1 U	1 U	1 U
.4-Dichlorobenzene	μg/L μg/L	75	1.5	1 U	1 U	1 U	1 U
2-Butanone (MEK)		5,600	3.7 J	10 U	10 U	10 U	10 U
-Butanone (MEK)	μg/L 	38		10 U	10 U	10 U	10 U
-Methyl-2-pentanone (MIBK)	μg/L	1,200	1.5 J	10 U	10 U	10 U	10 U
	μg/L 	1,200	3 J	10 U			-
Acetone	µg/L	,	6.5 J		15.5	4.9 J	25.3
Benzene	μg/L	5	587	1 U	10.3	53	1 U
Bromodichloromethane	μg/L	0.13	2.4	1 U	1 U	1 U	1 U
Bromoform	μg/L	3.3	0.83 J	1 U	1 U	1 U	1 U
Carbon disulfide	μg/L	810	0.78 J	1 U	1.7	1 U	1.7
Carbon tetrachloride	μg/L	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	μg/L	100	1.4	1 U	1 U	1 U	1 U
Chloroform	μg/L	0.22	1 U	1 U	1 U	1 U	1 U
Chloromethane	μg/L	190	2.1	1 U	1 U	1 U	3.9
is-1,2-Dichloroethene	μg/L	70	1 U	1 U	1 U	1 U	1 U
is-1,3-Dichloropropene	μg/L		0.82 J	1 U	1 U	1 U	1 U
Cyclohexane	μg/L	13,000	0.45 J	10 U	10 U	10 U	10 U
Ethylbenzene	μg/L	700	3.5	1 U	1 U	1 U	1 U
sopropylbenzene	μg/L	450	0.74 J	1 U	1 U	1 U	1 U
Methyl Acetate	μg/L	20,000	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	μg/L	14	2.5	1.2	1 U	1 U	1 U
Aethylene Chloride	μg/L	5	2.9	1 U	1 U	1 U	1 U
Vaphthalene	μg/L	0.12	N/A	N/A	N/A	N/A	N/A
Styrene	μg/L	100	3	1 U	1 U	1 U	1 U
Tetrachloroethene	μg/L μg/L	5	2.8	1 U	1 U	1 U	1 U
Toluene		1,000	8.3	1 U	1.2	0.4 J	1 U
rans-1.2-Dichloroethene	μg/L 	1,000	8.3 1 U	1 U	1.2 1 U	1 U	1 U
,	μg/L	100	10	10	10		
L'un a la La ma a Ala anna	··· /T	5	2.2	1 II	1 1 1	1 11	
	μg/L 	5	2.2	1 U	1 U	1 U	1 U
Frichlorofluoromethane	μg/L	1,100	1.8	1 U	1 U	1 U	1 U
Trichloroethene Trichlorofluoromethane Vinyl chloride	μg/L μg/L	1,100 2	1.8 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
Frichlorofluoromethane Vinyl chloride Xylenes	μg/L	1,100	1.8	1 U	1 U	1 U	1 U
Frichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^	μg/L μg/L μg/L	1,100 2 10,000	1.8 1 U 23.9	1 U 1 U 3 U	1 U 1 U 3 U	1 U 1 U 1.9 J	1 U 1 U 0.74 J
Frichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl	μg/L μg/L μg/L μg/L	1,100 2 10,000 0.83	1.8 1 U 23.9 N/A	1 U 1 U 3 U	1 U 1 U 3 U N/A	1 U 1 U 1.9 J N/A	1 U 1 U 0.74 J 1 U
Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ .,1-Biphenyl .,2,4-Trichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L	1,100 2 10,000 0.83 70	1.8 1 U 23.9 N/A N/A	1 U 1 U 3 U 1 U N/A	1 U 1 U 3 U N/A N/A	1 U 1 U 1.9 J N/A N/A	1 U 1 U 0.74 J 1 U N/A
Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1,100 2 10,000 0.83	1.8 1 U 23.9 N/A N/A N/A	1 U 1 U 3 U 1 U N/A N/A	1 U 1 U 3 U N/A N/A N/A	1 U 1 U 1.9 J N/A N/A N/A	1 U 1 U 0.74 J 1 U N/A N/A
Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ .1-Biphenyl .2,4-Trichlorobenzene .2-Dichlorobenzene .3-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1,100 2 10,000 0.83 70 600	1.8 1 U 23.9 N/A N/A N/A N/A	1 U 1 U 3 U 1 U N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A	1 U 1 U 0.74 J 1 U N/A N/A N/A
Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1,100 2 10,000 0.83 70 600 75	1.8 1 U 23.9 N/A N/A N/A N/A N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A	1 U 1 U 0.74 J 1 U N/A N/A N/A N/A
Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-A-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1,100 2 10,000 0.83 70 600 75 0.46	1.8 1 U 23.9 N/A N/A N/A N/A N/A 0.099 U	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U	1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U	1 U 1 U 0.74 J 1 U N/A N/A N/A N/A 0.23
Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane 2,4-Dimethylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$ \begin{array}{c c} 1,100\\ 2\\ 10,000\\\hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\\hline \\ \hline \\ 75\\ 0.46\\\hline 360\\\hline \end{array} $	1.8 1 U 23.9 N/A N/A N/A N/A 0.099 U N/A	1 U 1 U 3 U <u>1 U</u> N/A N/A N/A 0.072 J 1 U	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A	1 U 1 U 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$ \begin{array}{c c} 1,100\\ 2\\ 10,000\\\hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\\hline \\ \hline \\ 75\\ 0.46\\\hline 360\\\hline 91\\\hline \end{array} $	1.8 1 U 23.9 N/A N/A N/A N/A 0.099 U N/A N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A	1 U 1 U 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ \hline \\ 360\\ 91\\ \hline \\ 36\\ \hline \end{array}$	1.8 1 U 23.9 N/A N/A N/A N/A 0.099 U N/A N/A N/A 42.2	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U N/A N/A 2	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U	1 U 1 U 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ \hline \\ 360\\ 91\\ \hline \\ 36\\ 930\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U N/A N/A 2 N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A 0.099 U N/A	1 U 1 U 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 1 U 0.1 U 1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ \hline \\ 360\\ 91\\ \hline \\ 36\\ 930\\ \hline \\ 930\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 2 U	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U N/A N/A 2 N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A	1 U 1 U 0.74 J 0.74 J N/A N/A N/A N/A 0.23 1 U 1 U 1 U 0.1 U 1 U 2 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol (m&p Cresol) 3,3-Dichlorobenzidine	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ 930\\ \hline \\ 930\\ 0.12\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U N/A N/A 2 N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A 0.099 U N/A	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 1 U 0.1 U 1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 2 U	1 U 1 U 3 U N/A N/A N/A N/A 0.097 U N/A N/A 2 N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A	1 U 1 U 0.74 J 0.74 J N/A N/A N/A N/A 0.23 1 U 1 U 1 U 0.1 U 1 U 2 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol (m&p Cresol) 3,3-Dichlorobenzidine	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline \\ 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 2 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 2 U 1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) &3'-Dichlorobenzidine Acenaphthene	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 2 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A 0.099 U N/A N/A N/A N/A 0.19	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 2 U 1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'Dichlorobenzidine Xcenaphthene Xcenaphthylene Xcetophenone	μg/L μg/L	$\begin{array}{c c} 1,100\\ \hline 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline 600\\ \hline \\ 75\\ \hline 0.46\\ \hline 360\\ \hline 91\\ \hline 36\\ \hline 930\\ \hline 930\\ \hline 0.12\\ \hline 530\\ \hline 530\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 2 U 1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A N/A N/A 0.31 0.82	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A N/A 0.19 0.25	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 2 U 1 U 0.1 U 0.1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene 2-Methylphenol &&4-Methylphenol &&A-Methylphenol &&A-Methylphenol	μg/L μg/L	$\begin{array}{c c} 1,100\\ \hline 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ \hline 0.46\\ \hline 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \end{array}$	1.8 1 U 23.9 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 2 U 1 U 0.1 U 0.1 U 0.1 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 1 U 2 U 1 U 2 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane 2,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &&4-Methylphenol &	μg/L	$\begin{array}{c c} 1,100\\ \hline 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ \hline \\ 360\\ 911\\ \hline \\ 36\\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \end{array}$	1.8 1 U 23.9 N/A 3.8 4.9 N/A 3.5 0.52	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 J N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A N/A 0.19 0.25 N/A 0.31	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenziene ,4-Dinethylphenol -Methylnaphthalene -Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Xcenaphthene Xcenaphthene Xcenaphthylene Xcetophenone Xnthracene Banz[a]anthracene Banz[a]pyrene	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ \hline \\ 91\\ 36\\ 930\\ \hline \\ 930\\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ 0.03\\ \hline \\ 0.2\\ \hline \end{array}$	1.8 1 U 23.9 N/A 3.8 4.9 N/A 3.5 0.52 0.19	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 2 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 J 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U
richlorofluoromethane /inyl chloride Kylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol (m&p Cresol) ,3'-Dichlorobenzidine xcenaphthene xcenaphthylene xcetophenone mthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene	μg/L	$\begin{array}{c c} 1,100\\ \hline 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ \hline \\ 360\\ 911\\ \hline \\ 36\\ 930\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \\ 0.03\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.19 0.26	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 J N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U
richlorofluoromethane /inyl chloride kylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthylene cc	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ \hline \\ 36\\ 930\\ 930\\ \hline \\ 930\\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ 0.03\\ \hline \\ 0.2\\ \hline \\ 0.25\\ \hline \end{array}$	1.8 1 U 23.9 N/A 3.8 4.9 N/A 3.5 0.52 0.19 0.26 0.064 J	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.097 U	1 U 1 U 1 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 0.1 U
richlorofluoromethane /inyl chloride Kylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol weenaphthene weenaphthene weenaphthylene weenaphthylene weenaphthylene muthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \\ 0.03\\ \hline \\ 0.2\\ \hline \\ 0.25\\ \hline \\ 2.5\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.1	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol &cenaphthene Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene sizo[c2.Ethylhexyl)phthalate	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline \\ 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline $	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A	1 U 1 U 0.74 J 0.74 J 1 U N/A N/A N/A N/A 0.23 1 U 1 U 0.1 U 1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &cenaphthene Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene acito_Liftuoranthene acito_Liftuoranthene<	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \\ 0.03\\ \hline \\ 0.2\\ \hline \\ 0.25\\ \hline \\ 2.5\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.19 0.26 0.064 J 0.1 N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.67 J	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &A-Methylphenol scenaphthene Acenaphthene Acetophenone Anthracene Benzo[a]anthracene Benzo[b]fluoranthene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k]fluoranthene is(2-Ethylhexyl)phthalate Carbazole	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ \\ \\ 930\\ \hline \\ \\ 930\\ \hline \\ \\ 930\\ \hline \\ \\ \\ 930\\ \hline \\ \\ 930\\ \hline \\ \\ \\ 930\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	1.8 1 U 23.9 N/A 0.19 0.26 0.064 J 0.1 N/A N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.67 J 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.31 0.32 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U
Trichlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Xeenaphthene Acetophenone Anthracene Benzo[a]anthracene Benzo[b]fluoranthene Benzo[b]fluoranthene sis(2-Ethylhexyl)phthalate Carbazole Chrysene	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ \\ \\ 930\\ \hline \\ \\ \\ 930\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J N/A N/A N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.32 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A 0.097 U 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U
richlorofluoromethane /inyl chloride Kylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Keenaphthene Keenaphthene Keenaphthylene Keenapht	μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ 600\\ \hline \\ \hline \\ 75\\ 0.46\\ 360\\ 91\\ \hline \\ 36\\ 930\\ 930\\ \hline \\ \\ 920\\ \hline \\ 930\\ \hline \\ \\ 920\\ \hline \\ 930\\ \hline \\ 9$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J N/A N/A N/A 0.1 N/A 0.39 0.099 U	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U
richlorofluoromethane //inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Diokane ,4-Diokane ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthene ccenaphthene ccenaphthylene ccena	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ $	1.8 1 U 23.9 N/A 0.19 0.26 0.064 J N/A N/A N/A N/A	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.36 J	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthylene ccetophenone .nthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k,i]perylene Benzo[k,j]horylphthalate Benzo[k]fluoranthene Benzo[k	μg/L μg/L	1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.25 6 9,900 25 0.025 15,000 800	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J N/A N/A N/A N/A	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.062 J	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.33 0.036 J 0.036 J 0.025 J N/A N/A N/A 0.097 U 0.025 J N/A N/A 0.097 U 0.025 J N/A N/A N/A 0.097 U 0.025 J N/A N/A N/A 0.097 U 0.025 J N/A N/A N/A 0.097 U 0.025 J N/A N/A N/A N/A 0.097 U 0.025 J N/A N/A N/A 0.097 U 0.025 J N/A N/A N/A N/A 0.097 U 0.026 J N/A N/A N/A 0.027 U 0.025 J N/A N/A N/A N/A N/A 0.025 J N/A N/A N/A N/A N/A 0.025 J N/A N/A N/A N/A N/A N/A 0.026 J N/A N/A N/A N/A N/A 0.026 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthylene ccenaphthylene ccenaphthylene ccetophenone .nthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[k,i]perylene Benzo[k,	μg/L μg/L	1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.25 6 9,900 25 0.025 15,000 800 290	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J N/A N/A N/A N/A 0.39 0.099 U N/A 5.4 15.1	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.35 J 0.036 J 0.036 J 0.025 J N/A N/A N/A N/A 0.097 U N/A 0.097 U 0.036 J 0.025 J 0.097 U 0.025 J 0.097 U N/A N/A N/A 0.097 U 0.025 J 0.097 U 0.044 1.5	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthene ccenaphthylene ccenaphthy	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \\ 0.25\\ \hline \\ \hline \\ 2.5\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A N/A 0.39 0.099 U N/A 5.4 15.1 0.062 J	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.035 J 0.035 J 0.097 U N/A N/A N/A 0.097 U 0.025 J 0.097 U N/A N/A 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U N/A N/A 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A 0.38 0.1	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthylene ccetophenone unthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[k]fluoran	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A N/A 0.39 0.099 U N/A 5.4 15.1 0.062 J 736	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A 0.38 0.1 0.078 B	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.0 31 B
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthylene ccetophenone mthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k,hi]peryle	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \\ 0.25\\ \hline \\ \hline \\ 2.5\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A N/A 0.39 0.099 U N/A 5.4 15.1 0.062 J 736 N/A	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.0 U 0.1 U 0.1 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.055 J 0.074 J 0.036 J 0.025 J N/A N/A N/A N/A N/A N/A N/A 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A 0.38 0.1 0.078 B N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.0 31 B 1 U
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthene ccenaphthylene ccetophenone anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.19 0.26 0.064 J 0.1 N/A N/A N/A N/A 0.39 0.099 U N/A 5.4 15.1 0.062 J 736 N/A	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.02 J 0.02 J 0.1 U 0.25 U 0.5 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A N/A 0.31 0.055 J 0.074 J 0.036 J 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.2 S U 0.2 S U 0.2 S U
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthene ccenaphthylene ccetophenone anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \\ 0.011\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A </td <td>1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U</td> <td>1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.055 J 0.074 J 0.036 J 0.025 J N/A N/A N/A N/A N/A N/A N/A 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U N/A N/A N/A N/A N/A N/A N/A N/A</td> <td>1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A 0.38 0.1 0.078 B N/A</td> <td>1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.0 31 B 1 U</td>	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U 0.1 U 0.0 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.055 J 0.074 J 0.036 J 0.025 J N/A N/A N/A N/A N/A N/A N/A 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A 0.38 0.1 0.078 B N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.0 31 B 1 U
richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ccenaphthene ccenaphthene ccenaphthylene ccetophenone anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene Be	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \\ 0.011\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.19 0.26 0.064 J 0.1 N/A N/A N/A N/A 0.39 0.099 U N/A 5.4 15.1 0.062 J 736 N/A	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.02 J 0.02 J 0.1 U 0.25 U 0.5 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A N/A 0.31 0.055 J 0.074 J 0.036 J 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.2 S U 1 U 0.2 S U 0.1 U 0.2 S U 0.2 S U 0.2 S U
richlorofluoromethane /inyl chloride /ylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dinethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine ceenaphthene ceenaphthene ceetophenone anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[k]fluoranthene Benzo[b]fluoranthen	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 1,800\\ \hline \\ 0.03\\ \hline \\ 0.25\\ \hline \\ 0.25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \\ 0.011\\ \hline \\ 1\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A </td <td>1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.02 J 0.02 J 0.02 J 0.02 S 0.02 S 0.02</td> <td>1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A N/A 0.31 0.82 N/A N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.035 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A</td> <td>1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.2 0.21 0.12 N/A N/A N/A N/A 0.7 0.31 J N/A N/A 0.78 B N/A N/A 0.78 B N/A N/A</td> <td>1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U</td>	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.02 J 0.02 J 0.02 J 0.02 S 0.02	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A N/A 0.31 0.82 N/A N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.035 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.2 0.21 0.12 N/A N/A N/A N/A 0.7 0.31 J N/A N/A 0.78 B N/A N/A 0.78 B N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U
richlorofluoromethane inyl chloride ylenes emi-Volatile Organic Compounds^].1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine cenaphthene cenaphthene cenaphthylene cetophenone .nthracene enzo[a]pyrene enzo[b]fluoranthene enzo[b]fluoranthene is(2-Ethylhexyl)phthalate aprolactam arbazole hrysene bibenz[a,h]anthracene bibenz[a,h]anthracene enzo[b]fluoranthene is(2-Ethylhexyl)phthalate aprolactam arbazole hrysene bibenz[a,h]anthracen	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \\ 0.011\\ \hline \\ 1\\ \hline \\ \\ 5,800\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A N/A 0.39 0.099 U N/A 5.4 15.1 0.062 J 736 N/A N/A N/A	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.25 J 0.02 J 0.02 J 0.02 J 0.02 J 0.1 U 0.1 U 0.25 J 0.02 J 0.1 U 0.02 J 0.02 J 0.02 J 1 U 0.025 J 1 U 0.025 J 1 U 0.025 J 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.055 J 0.074 J 0.036 J 0.035 J 0.075 J 0.097 U N/A N/A N/A N/A N/A N/A N/A 0.39 0.074 J 0.097 U 0.025 J 0.097 U 0.025 J 0.097 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A N/A N/A 0.7 0.31 J N/A N/A 0.78 B N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U
richlorofluoromethane inyl chloride ylenes emi-Volatile Organic Compounds^ []-Biphenyl 2,4-Trichlorobenzene 2-Dichlorobenzene 3-Dichlorobenzene 4-Dichlorobenzene 4-Dichlorobenzene 4-Dioxane 4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol(m&p Cresol) 3'-Dichlorobenzidine cenaphthene cenaphthene cenaphthylene cetophenone nthracene enzo[a]pyrene enzo[b]fluoranthene enzo[b]fluoranthene enzo[k]fluoranthene is(2-Ethylhexyl)phthalate aprolactam arbazole hrysene tibenz[a,h]anthracene t	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \\ 0.011\\ \hline \\ 1\\ \hline \\ \\ 5,800\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A </td <td>1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.02 J 0.02 J 1 U 0.025 J 1 U 0.025 J 1 U 0.004 B 1 U 0.016 J 0.016 J 0.016 J</td> <td>1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A 0.39 0.074 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A</td> <td>1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A N/A 0.78 B N/A N/A 0.78 B N/A N/A</td> <td>1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U</td>	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.02 J 0.02 J 1 U 0.025 J 1 U 0.025 J 1 U 0.004 B 1 U 0.016 J 0.016 J 0.016 J	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A 0.39 0.074 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A N/A 0.78 B N/A N/A 0.78 B N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U
richlorofluoromethane inyl chloride ylenes emi-Volatile Organic Compounds^ 1-Biphenyl 2,4-Trichlorobenzene 2-Dichlorobenzene 3-Dichlorobenzene 4-Diokane 4-Diokane 4-Dioxane 4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol(m&p Cresol) 3'-Dichlorobenzidine cenaphthylene cenaphthylene cenaphthylene cenaphthylene cenaphthylene cenaphthylene cenaphthylene cenaphthylene cenaphthylene is(2-Ethylhexyl)phthalate aprolactam arbazole hrysene tietnylphthalate luoranthene luoranthene luoranthene is(2,3-c,d]pyrene aphthalene -Nitroso-di-n-propylamine entachlorophenol henanthrene henol yrene yridine PH/Oil & Grease	μg/L μg/L	1,100 2 10,000 0.83 70 600 75 0.46 360 930 930 0.12 530 530 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	1.8 1 U 23.9 N/A 0.19 0.26 0.064 J 0.1 N/A N/A <td>1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.0 (1 U 0.1 U 0.1 U 0.1 U 0.0 (1 U 0.1 U 0.1 U 0.0 (1 U 0.0 (1 U 0.1 U 0.1 U 0.0 (1 U 0</td> <td>1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.31 0.31 0.036 J 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A</td> <td>1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A N/A 0.78 B N/A N/A 0.78 B N/A N/A</td> <td>1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.</td>	1 U 1 U 3 U 3 U 1 U N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.0 (1 U 0.1 U 0.1 U 0.1 U 0.0 (1 U 0.1 U 0.1 U 0.0 (1 U 0.0 (1 U 0.1 U 0.1 U 0.0 (1 U 0	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.31 0.31 0.036 J 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A 0.17 0.031 J N/A N/A 0.78 B N/A N/A 0.78 B N/A N/A	1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 0.
richlorofluoromethane /inyl chloride Kylenes emi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acenaphthene Acetophenone Anthracene Benzo[a]pnrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene is(2-Ethylhexyl)phthalate Carbazole Chrysene	μg/L μg/L	$\begin{array}{c c} 1,100\\ 2\\ 10,000\\ \hline \\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline \\ 600\\ \hline \\ \hline \\ 75\\ \hline \\ 0.46\\ \hline \\ 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 9,900\\ \hline \\ \hline \\ 25\\ \hline \\ 0.025\\ \hline \\ 15,000\\ \hline \\ 800\\ \hline \\ 290\\ \hline \\ 0.25\\ \hline \\ 0.12\\ \hline \\ 0.011\\ \hline \\ 1\\ \hline \\ \\ 5,800\\ \hline \end{array}$	1.8 1 U 23.9 N/A 0.52 0.19 0.26 0.064 J 0.1 N/A N/A </td <td>1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.02 J 0.02 J 1 U 0.025 J 1 U 0.025 J 1 U 0.004 B 1 U 0.016 J 0.016 J 0.016 J</td> <td>1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A 0.39 0.074 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A</td> <td>1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A N/A 0.78 B N/A N/A</td> <td>1 U 1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U</td>	1 U 1 U 3 U 1 U N/A N/A N/A N/A N/A N/A 0.072 J 1 U 1 U 0.1 U 1 U 0.1 U 0.02 J 0.02 J 1 U 0.025 J 1 U 0.025 J 1 U 0.004 B 1 U 0.016 J 0.016 J 0.016 J	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A 0.097 U N/A N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.31 0.82 N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.055 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A 0.39 0.074 J 0.036 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A 0.39 0.074 J 0.097 U 0.025 J N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 1 U 1.9 J N/A N/A N/A N/A N/A 0.099 U N/A N/A 0.099 U N/A N/A 0.19 0.25 N/A 0.19 0.25 N/A 0.31 0.26 0.2 0.29 0.11 0.12 N/A N/A N/A N/A 0.78 B N/A N/A	1 U 1 U 1 U 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.74 J 0.23 1 U 1 U 0.1 U 1 U 0.1 U

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

 $\ensuremath{N/A}\xspace$ indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Parameter	Units	PAL	A11-040-PZ* 7/25/2018	A11-043-PZ* 8/22/2016	GL-03 (-3)* 12/1/2020	GL-08 (-3)* 12/2/2020	GL-09 (-2)* 11/24/2020
Volatile Organic Compounds 1.1.2.2-Tetrachloroethane		0.076	1 U	1 U	1 U	5 U	1 U
1.1-Dichloroethane	μg/L μg/L	2.7	1 U	1 U	1 U	5 U	1 U
1,2,4-Trichlorobenzene	μg/L μg/L	70	1 U	1 U	1 U	5 U	1 U
1,2,4-Trimethylbenzene	μg/L	,,,,	N/A	N/A	1 U	32.5	2.2
1,2-Dibromo-3-chloropropane	μg/L	0.2	5 U	5 U	1 U	5 U	1 U
1,2-Dichlorobenzene	μg/L	600	1 U	1 U	1 U	5 U	1 U
1,2-Dichloroethane	μg/L	5	1 U	1 U	1 U	5 U	1 U
1,2-Dichloroethene (Total)	μg/L	70	2 U	2 U	N/A	N/A	N/A
1,2-Dichloropropane	μg/L	5	1 U	1 U	1 U	5 U	1 U
1,3,5-Trimethylbenzene	μg/L	-	N/A	N/A	1 U	15.2	1.1
1,3-Dichlorobenzene	μg/L		1 U	1 U	1 U	5 U	1 U
1,4-Dichlorobenzene	μg/L	75	1 U	1 U 10 U	1 U	5 U	1 U
2-Butanone (MEK) 2-Hexanone	μg/L 	5,600 38	10 U 10 U	10 U	5 U 5 U	25 U 25 U	44.4 5 U
4-Methyl-2-pentanone (MIBK)	μg/L μg/L	1,200	10 U	10 U	5 U	25 U	5.1 J
Acetone	μg/L μg/L	14,000	6.9 J	10 U	10 U	23.0	305
Benzene	μg/L	5	1.7	10 C	4.4	80.8	1
Bromodichloromethane	μg/L	0.13	1 U	1 U	1 U	5 U	1 U
Bromoform	μg/L	3.3	1 U	1 U	1 U	5 U	1 U
Carbon disulfide	μg/L	810	1 U	1 U	1 U	5 U	1.3
Carbon tetrachloride	μg/L	5	1 U	1 U	1 U	5 U	1 U
Chlorobenzene	μg/L	100	1 U	1 U	1 U	5 U	1 U
Chloroform	μg/L	0.22	1 U	1 U	1 U	5 U	1 U
Chloromethane	μg/L	190	1 U	1 U	1 U	5 U	1 U
cis-1,2-Dichloroethene	μg/L	70	1 U	1 U	1 U	5 U	1 U
cis-1,3-Dichloropropene	μg/L		1 U	1 U	1 U	5 U	1 U
Cyclohexane	μg/L	13,000	10 U	10 U	N/A	N/A	N/A
Ethylbenzene	μg/L	700	1 U	1 U	1 U	7	1 U
Isopropylbenzene	μg/L	450	1 U	1 U	1 U	5 U	1 U
Methyl Acetate	μg/L	20,000	5 U	5 U	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	µg/L	14	1 U	1 U	1 U	5 U	1 U
Methylene Chloride	μg/L	5	1 U	1 U	1 U	5 U	1 U
Naphthalene	μg/L	0.12	N/A	N/A	9.6	4,890	29
Styrene	μg/L	100	1 U	1 U	1 U	3.8 J	1 U
Tetrachloroethene	μg/L	5	1 U	1 U	1 U	5 U	1 U
Toluene	μg/L	1,000	1 U 1 U	1 U 1 U	1 U 1 U	358 5 U	3.4 1 U
trans-1,2-Dichloroethene Trichloroethene	μg/L μg/L	5	1 U	1 U 1 U	1 U 1 U	5 U	1 U 1 U
Trichlorofluoromethane	μg/L	1,100	1 U	1 U	1 U	5 U	1 U
Vinyl chloride	μg/L μg/L	2	1 U	1 U	1 U	5 U	1 U
Xylenes	μg/L μg/L	10,000	3 U	3 U	3 U	129	3 U
Semi-Volatile Organic Compounds [^]	με	10,000	50	50	50	127	50
1,1-Biphenyl	μg/L	0.83	N/A	1 U	N/A	N/A	N/A
1,2,4-Trichlorobenzene	μg/L	70	N/A	N/A	0.96 U	4.8 U	10 U
1,2-Dichlorobenzene	μg/L	600	N/A	N/A	0.96 U	0.96 U	10 U
1,3-Dichlorobenzene	μg/L		N/A	N/A	0.96 U	0.96 U	10 U
1,4-Dichlorobenzene							10.0
1,4-Dioxane	μg/L	75	N/A	N/A	0.96 U	0.96 U	10 U
	μg/L μg/L	75 0.46	0.098 U		0.96 U N/A	0.96 U N/A	10 U N/A
2,4-Dimethylphenol	μg/L μg/L	0.46 360	0.098 U N/A	N/A 0.87 1 U	N/A 1.2	N/A 109	10 U N/A 73.6
2-Chlorophenol	μg/L μg/L μg/L μg/L	0.46 360 91	0.098 U N/A N/A	N/A 0.87 1 U 1 U	N/A	N/A 109 0.96 U	10 U N/A 73.6 10 U
2-Chlorophenol 2-Methylnaphthalene	μg/L μg/L μg/L μg/L μg/L	0.46 360 91 36	0.098 U N/A N/A 0.28	N/A 0.87 1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1	N/A 109 0.96 U 102	10 U N/A 73.6 10 U 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol	μg/L μg/L μg/L μg/L μg/L	0.46 360 91 36 930	0.098 U N/A N/A 0.28 N/A	N/A 0.87 1 U 1 U 0.1 U 1 U	N/A 1.2 0.96 U 1.1 0.96 U	N/A 109 0.96 U 102 27.2	10 U N/A 73.6 10 U 10 U 43.6
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol)	μg/L μg/L μg/L μg/L μg/L μg/L μg/L	0.46 360 91 36 930 930	0.098 U N/A N/A 0.28 N/A N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U	N/A 109 0.96 U 102 27.2 68.8	10 U N/A 73.6 10 U 10 U 43.6 449
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	0.46 360 91 36 930 930 0.12	0.098 U N/A N/A 0.28 N/A N/A N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene	μg/L	0.46 360 91 36 930 930 0.12 530	0.098 U N/A N/A 0.28 N/A N/A N/A 0.42	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9	N/A 109 0.96 U 102 27.2 68.8 2 23	10 U N/A 73.6 10 U 10 U 43.6 449 10 U 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene	μg/L	0.46 360 91 36 930 930 0.12 530 530	0.098 U N/A N/A 0.28 N/A N/A N/A 0.42 0.21	N/A 0.87 1 U 0.1 U 2.1 U 1 U 0.1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2	10 U N/A 73.6 10 U 10 U 43.6 449 10 U 10 U 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone	μg/L	0.46 360 91 36 930 0.12 530 530 1,900	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A	N/A 0.87 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U 1 U 1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U 0.96 U 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3	10 U N/A 73.6 10 U 10 U 43.6 449 10 U 10 U 10 U 10 U 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene	μg/L	0.46 360 91 36 930 0.12 530 530 1,900 1,800	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57	N/A 0.87 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene	μg/L	0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48	N/A 0.87 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U 0.96 U 0.96 U 0.96 U 0.96 U 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene	μg/L	0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4	N/A 0.87 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene	μg/L	0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 0.96 U 0.96 U 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene	μg/L	0.46 360 91 36 930 930 0.12 530 530 1,900 1,800 0.03 0.2	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51 0.21	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 0.96 U 0.96 U 0.96 U 0.96 U 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene	μg/L	0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51 0.21 0.25	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate	μg/L	0.46 360 91 36 930 930 0.12 530 530 1,900 1,800 0.03 0.2	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51 0.21	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 0.96 U 0.96 U 0.96 U 0.96 U 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene	μg/L	$\begin{array}{c} 0.46\\ \hline 360\\ 91\\ \hline 36\\ 930\\ \hline 930\\ \hline 0.12\\ \hline 530\\ \hline 530\\ \hline 1,900\\ \hline 1,800\\ \hline 0.03\\ \hline 0.2\\ \hline 0.25\\ \hline \\ 2.5\\ \hline 6\\ \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51 0.21 0.25 N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam	μg/L	$\begin{array}{c} 0.46\\ \hline 360\\ 91\\ \hline 36\\ 930\\ \hline 930\\ \hline 0.12\\ \hline 530\\ \hline 530\\ \hline 1,900\\ \hline 1,800\\ \hline 0.03\\ \hline 0.2\\ \hline 0.25\\ \hline \\ 2.5\\ \hline 6\\ \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U 0.26 J 0.22 J	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U 10 U </td
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole	μg/L	$\begin{array}{c} 0.46\\ 360\\ 91\\ 36\\ 930\\ 0.12\\ 530\\ 530\\ 1.900\\ 1.800\\ 0.03\\ 0.2\\ 0.25\\ \hline \\ 2.5\\ 6\\ 9,900\\ \hline \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.26 J 0.22 J 1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 0.96 N N/A	10 U N/A 73.6 10 U 10 U 43.6 449 10 U 10 U </td
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene	μg/L	$\begin{array}{c} 0.46\\ 360\\ 91\\ 36\\ 930\\ 0.12\\ 530\\ 530\\ 1.900\\ 1.800\\ 0.03\\ 0.2\\ 0.25\\ \hline \\ 2.5\\ 6\\ 9,900\\ \hline \\ 25\\ \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A N/A 0.44	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.26 J 0.22 J 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U N/A N/A	10 U N/A 73.6 10 U 10 U 10 U 449 10 U N/A N/A 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene	μg/L	$\begin{array}{c c} 0.46 \\ \hline 360 \\ 91 \\ \hline 36 \\ 930 \\ \hline 0.12 \\ \hline 530 \\ \hline 530 \\ \hline 1,900 \\ \hline 1,800 \\ \hline 0.03 \\ \hline 0.2 \\ \hline 0.25 \\ \hline \hline 0.25 \\ \hline 0.25 \\ \hline 0.025 \\ \hline \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A 0.44 0.44 0.7 J N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U	10 U N/A 73.6 10 U 10 U 43.6 449 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluorene	μg/L	0.46 360 91 36 930 0.12 530 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.21 0.25 N/A N/A N/A N/A 0.7 J N/A 1.4 0.6	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U	10 U N/A 73.6 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[k]fluoranthene Dis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene	μg/L	$\begin{array}{c} 0.46\\ \hline 360\\ 91\\ \hline 36\\ 930\\ \hline 930\\ \hline 930\\ \hline 0.12\\ \hline 530\\ \hline 530\\ \hline 530\\ \hline 1,900\\ \hline 1,800\\ \hline 0.03\\ \hline 0.2\\ \hline 0.25\\ \hline \\ 2.5\\ \hline 6\\ \hline 9,900\\ \hline \\ \hline \\ 25\\ \hline 0.025\\ \hline 15,000\\ \hline 800\\ \hline 290\\ \hline 0.25\\ \hline \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.21 0.25 N/A N/A N/A N/A 0.7 J N/A 1.4 0.6 0.22	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 4.8 48.3 0.96 U	10 U N/A 73.6 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene Naphthalene	μg/L	$\begin{array}{c c} 0.46 \\ \hline 360 \\ 91 \\ \hline 36 \\ 930 \\ \hline 930 \\ \hline 930 \\ \hline 930 \\ \hline 0.12 \\ \hline 530 \\ \hline 530 \\ \hline 530 \\ \hline 1,900 \\ \hline 1,800 \\ \hline 0.03 \\ \hline 0.2 \\ \hline 0.25 \\ \hline \\ 2.5 \\ \hline 6 \\ 9,900 \\ \hline \\ 25 \\ \hline 0.025 \\ \hline 15,000 \\ \hline 800 \\ \hline 290 \\ \hline 0.25 \\ \hline 0.12 \\ \hline \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.21 0.25 N/A N/A N/A N/A 0.7 J N/A 1.4 0.6 0.22 1.7	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350	10 U N/A 73.6 10 U 10 U <tr< td=""></tr<>
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Nenkiroso-di-n-propylamine	μg/L	$\begin{array}{c} 0.46\\ \hline 360\\ 91\\ \hline 36\\ 930\\ \hline 930\\ \hline 930\\ \hline 0.12\\ \hline 530\\ \hline 530\\ \hline 530\\ \hline 1,900\\ \hline 1,800\\ \hline 0.03\\ \hline 0.2\\ \hline 0.25\\ \hline \\ 2.5\\ \hline 6\\ \hline 9,900\\ \hline \\ 25\\ \hline 0.025\\ \hline 15,000\\ \hline 800\\ \hline 290\\ \hline 0.25\\ \hline 0.12\\ \hline 0.011\\ \hline \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A N/A 0.44 0.6 0.22 1.7 N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350 N/A	10 U N/A 73.6 10 U 10 U <
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene N-Nitroso-di-n-propylamine Pentachlorophenol	μg/L	$\begin{array}{c c} 0.46 \\ \hline 360 \\ 91 \\ \hline 36 \\ 930 \\ \hline 930 \\ \hline 930 \\ \hline 930 \\ \hline 0.12 \\ \hline 530 \\ \hline 530 \\ \hline 530 \\ \hline 1,900 \\ \hline 1,800 \\ \hline 0.03 \\ \hline 0.2 \\ \hline 0.25 \\ \hline \\ 2.5 \\ \hline 6 \\ 9,900 \\ \hline \\ 25 \\ \hline 0.025 \\ \hline 15,000 \\ \hline 800 \\ \hline 290 \\ \hline 0.25 \\ \hline 0.12 \\ \hline \end{array}$	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A N/A 0.44 0.6 0.22 1.7 N/A N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U 0.27 B 1 U 2.6 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A 2.4 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350 N/A 2 J	10 U N/A 73.6 10 U 25 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene New State Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene Naphthalene N-Nitroso-di-n-propylamine Pentachlorophenol Phenanthrene	μg/L	0.46 360 91 36 930 930 0.12 530 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A N/A 0.44 0.67 J N/A 1.4 0.6 0.22 1.7 N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A 2.4 U 2.7	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350 N/A 2 J 47.2	10 U N/A 73.6 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Phorene Indeno[1,2,3-c,d]pyrene Naphthalene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol	μg/L μg/L	0.46 360 91 36 930 930 0.12 530 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A 0.44 0.7 J N/A 1.4 0.6 0.22 1.7 N/A N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U 1 U 2.6 U 0.1 U 1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A 2.4 U 2.7 0.64 J	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350 N/A 2 J 47.2 14.9	10 U N/A 73.6 10 U 25 U 10 U 342
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Accetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene Naphthalene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol Pyrene	μg/L	0.46 360 91 36 930 930 0.12 530 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A N/A 0.44 0.7 J N/A 1.4 0.6 0.22 1.7 N/A N/A 0.83	N/A 0.87 1 U 1 U 1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A 2.4 U 2.7 0.64 J 0.73 J	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350 N/A 2 J 47.2 14.9 3	10 U N/A 73.6 10 U 342 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acceophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Phuorene Indeno[1,2,3-c,d]pyrene Naphthalene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol Pyrene Pyridine	μg/L μg/L	0.46 360 91 36 930 930 0.12 530 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A 0.44 0.7 J N/A 1.4 0.6 0.22 1.7 N/A N/A	N/A 0.87 1 U 1 U 0.1 U 1 U 2.1 U 1 U 0.1 U 1 U 2.6 U 0.1 U 1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A 2.4 U 2.7 0.64 J	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350 N/A 2 J 47.2 14.9	10 U N/A 73.6 10 U 25 U 10 U 342
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Fluoranthene Fluorene Indeno[1,2,3-c,d]pyrene Naphthalene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol Pyrene Pyridine TPH/Oil & Grease	μg/L μg/L	0.46 360 91 36 930 930 930 0.12 530 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800 120	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A 0.44 0.7 J N/A 1.4 0.6 0.22 1.7 N/A N/A	N/A 0.87 1 U 1 U 1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A 2.4 U 2.7 0.64 J 0.73 J 0.96 U	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 10.96 U 0.96 U 10.96 U 10.96 U 10.96 U 10.96 U 10.96 U 11.9 11.9 11.9 11.9 11.9 11.9 11.9	10 U N/A 73.6 10 U 342 10 U 10 U
2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol 3&4-Methylphenol(m&p Cresol) 3,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acceophenone Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene bis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Phuorene Indeno[1,2,3-c,d]pyrene Naphthalene N-Nitroso-di-n-propylamine Pentachlorophenol Phenol Pyrene Pyridine	μg/L	0.46 360 91 36 930 930 0.12 530 530 530 1,900 1,800 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800	0.098 U N/A N/A 0.28 N/A N/A 0.42 0.21 N/A 0.57 0.48 0.4 0.57 0.48 0.4 0.51 0.21 0.25 N/A N/A N/A N/A 0.44 0.7 J N/A 1.4 0.6 0.22 1.7 N/A N/A 0.83	N/A 0.87 1 U 1 U 1 U 1 U 2.1 U 1 U 0.1 U	N/A 1.2 0.96 U 1.1 0.96 U 1.9 U 0.96 U 1.9 U 0.96 U 1 2.2 0.96 U 4 N/A 2.4 U 2.7 0.64 J 0.73 J	N/A 109 0.96 U 102 27.2 68.8 2 23 33.2 24.3 9.3 0.96 U 3,350 N/A 2 J 47.2 14.9 3	10 U N/A 73.6 10 U 342 10 U

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

 $\ensuremath{N/A}\xspace$ indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Parameter	Units	PAL	GL-18 (-3)* 11/25/2020	LF-01S 8/19/2016	LF-02 8/19/2016	LF-03S 8/19/2016	LF-03S* 7/24/2018
Volatile Organic Compounds 1.1.2.2-Tetrachloroethane	/ T	0.076	1 U	1 U	1 U	1 U	1 U
1,1,2,2-1 etrachloroethane	μg/L μg/L	0.076	44.8	1 U 1 U	0.45 J	1 U	1 U
1.2.4-Trichlorobenzene	μg/L μg/L	70	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	μg/L	,,,	44.7	N/A	N/A	N/A	N/A
,2-Dibromo-3-chloropropane	μg/L	0.2	1 U	5 U	5 U	5 U	5 U
,2-Dichlorobenzene	μg/L	600	1 U	1 U	1 U	1 U	1 U
,2-Dichloroethane	μg/L	5	1 U	1 U	1 U	1 U	1 U
,2-Dichloroethene (Total)	μg/L	70	N/A	2 U	2 U	2 U	2 U
,2-Dichloropropane	μg/L	5	1 U	1 U	1 U	1 U	1 U
,3,5-Trimethylbenzene	μg/L		15.5	N/A	N/A	N/A	N/A
,3-Dichlorobenzene	μg/L		1 U	1 U	1 U	1 U	1 U
,4-Dichlorobenzene	μg/L	75	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	μg/L	5,600	5.5 J	10 U	5.1 J	10 U	10 U
2-Hexanone	μg/L	38	5 U	10 U	10 U	10 U	10 U
-Methyl-2-pentanone (MIBK)	μg/L	1,200	13.7	10 U	5.6 J	10 U	10 U
Acetone	μg/L	14,000	27.3	10 U	32.7	5.7 J	10 U
Benzene	μg/L	5	912	55.4	0.87 J	10.5	26
Bromodichloromethane	μg/L	0.13	1 U	1 U	1 U	1 U	1 U
Bromoform	μg/L	3.3	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	μg/L	810	1.2	1.4	7.6	1 U	1 U
Carbon tetrachloride	μg/L	5	1 U	1 UJ	1 UJ	1 UJ	1 U
Chlorobenzene	μg/L 	100 0.22	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
Chloroform Chloromethane	μg/L ug/I	0.22	1 U 1 U	1 U 1 UJ	1 U 1 UJ	1 U 1 UJ	1 U 1 U
chloromethane sis-1,2-Dichloroethene	μg/L μg/Ι	190 70		1 UJ 1 U			1 U 1 U
1	μg/L μg/I	/0	5.5 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
sis-1,3-Dichloropropene	μg/L ug/I	13,000	I U N/A	1 U 10 UJ	0.19 J	1 U 10 UJ	1 U 10 U
Ethylbenzene	μg/L μg/L	700	N/A 9.5	10 UJ 1 U	0.19 J 1 U	10 UJ 1 U	10 U 1 U
sopropylbenzene		450	9.5 1.9	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
Methyl Acetate	μg/L μg/L	20,000	1.9 N/A	5 U	5 U	5 U	5 U
Methyl Acetate Methyl tert-butyl ether (MTBE)	μg/L μg/L	20,000	N/A 1 U	5 U 1 U	5 U 1 U	5 U 1 U	5 U 1 U
Methylene Chloride	μg/L μg/L	5	1 U	1 U	1 U	1 U	9.8
Vaphthalene	μg/L μg/L	0.12	6,070	N/A	N/A	N/A	9.0 N/A
Styrene	μg/L μg/L	100	8.9	1 U	1 U	1 U	1 U
Tetrachloroethene	μg/L μg/L	5	8.9 1 U	1 U	1 U	1 U	1 U
Toluene	μg/L μg/L	1,000	400	0.47 J	0.58 J	1 U	0.67 J
rans-1.2-Dichloroethene	μg/L μg/L	1,000	0.41 J	1 U	1 U	1 U	1 U
			0.41 J	10	10	10	
,			1 U	1 I I	1 I I	1 I I	1 I I
Trichloroethene	μg/L	5	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
Frichloroethene Frichlorofluoromethane	μg/L μg/L	5 1,100	1 U	1 U	1 U	1 U	1 U
Trichloroethene Trichlorofluoromethane Vinyl chloride	μg/L μg/L μg/L μg/L	5 1,100 2	1 U 7.4	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
Frichloroethene Frichlorofluoromethane Vinyl chloride Xylenes	μg/L μg/L	5 1,100	1 U	1 U	1 U	1 U	1 U
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^	μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000	1 U 7.4 145	1 U 1 U 0.82 J	1 U 1 U 2.9 J	1 U 1 U 3 U	1 U 1 U
Frichloroethene Frichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl	μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83	1 U 7.4 145 N/A	1 U 1 U 0.82 J 1 U	1 U 1 U	1 U 1 U 3 U 0.4 J	1 U 1 U 3 U
Frichloroethene Frichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000	1 U 7.4 145 N/A 98 U	1 U 1 U 0.82 J 1 U N/A	1 U 1 U 2.9 J 1 U N/A	1 U 1 U 3 U	1 U 1 U 3 U
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70	1 U 7.4 145 N/A 98 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A	1 U 1 U 2.9 J 1 U N/A N/A	1 U 1 U 3 U 0.4 J N/A N/A	1 U 1 U 3 U N/A N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70 600	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A	1 U 1 U 2.9 J 1 U N/A	1 U 1 U 3 U 0.4 J N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A	1 U 1 U 2.9 J 1 U N/A N/A N/A	1 U 1 U 3 U 0.4 J N/A N/A	1 U 1 U 3 U N/A N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U N/A	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A 8.6	1 U 1 U 3 U 0.4 J N/A N/A N/A	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.098 U
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A 8.6 31.6	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14	1 U 1 U 3 U N/A N/A N/A N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U N/A 955	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A 8.6	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A 0.098 U N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Diokane ,4-Dioxane ,4-Dioxane ,4-Dioxane ,4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U N/A 955 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A 8.6 31.6 0.62 J	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A 0.098 U N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene -,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U N/A 955 9.8 U 98 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1.3	1 U 1 U 3 U N/A N/A N/A N/A 0.098 U N/A N/A 3.6
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol 2-Chlorophenol 2-Methylphenol 8&4-Methylphenol(m&p Cresol)	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.55 9.8 U 98 U 414	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 J 1 U	1 U 1 U 3 U N/A N/A N/A N/A 0.098 U N/A N/A 3.6 N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol 2-Methylphenol 3&4-Methylphenol 3&4-Methylphenol 3&3-Dichlorobenzidine	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	$\begin{array}{c c} 5\\ \hline 1,100\\ \hline 2\\ \hline 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline 600\\ \hline \\ \hline \\ 75\\ \hline 0.46\\ \hline 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 930\\ \hline \end{array}$	1 U 7.4 145 98 U 9.8 U 414 1,360	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 2 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) &3'-Dichlorobenzidine Kenaphthene	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 930 0.12	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 2 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol & 4-Methylphenol(m&p Cresol) & 3'-Dichlorobenzidine Keenaphthene Keenaphthylene Acetophenone	μg/L	$\begin{array}{c c} 5\\ \hline 1,100\\ \hline 2\\ \hline 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline 600\\ \hline \\ \hline \\ 75\\ \hline 0.46\\ \hline 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \end{array}$	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U 0.021 J 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
Trichloroethene Trichlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &&4-Methylphenol(m&p Cresol) &&3'-Dichlorobenzidine Keenaphthene Keenaphthylene Keetophenone Anthracene	μg/L	$\begin{array}{c c} 5\\ \hline 1,100\\ \hline 2\\ \hline 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline 600\\ \hline \\ \hline \\ 75\\ \hline 0.46\\ \hline 360\\ \hline \\ 91\\ \hline \\ 36\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 930\\ \hline \\ 0.12\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 530\\ \hline \\ 1,900\\ \hline \\ 1,800\\ \hline \end{array}$	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U 0.021 J 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane richlorofluoromethane richlorofluoromethane richlorofluoromethane Semi-Volatile Organic Compounds^ gemi-Volatile Organic Compounds gemi-Volatile Organic Organic Compounds gemi-Volati	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ JBiphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Keenaphthene Keenaphthylene Keenaphthylene Keetophenone Anthracene Benz[a]anthracene Benz[a]pyrene	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane Vinyl chloride Kylenes Semi-Volatile Organic Compounds^ JBiphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Keenaphthene Keenaphthene Keenaphthylene	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (ylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol (m&p Cresol) ,3'-Dichlorobenzidine Acenaphthene Acetophenone Inthracene Benz[a]anthracene Benzo[a]pyrene Benzo[g,h,i]perylene	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 0.25	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (ylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol (m&p Cresol) ,3'-Dichlorobenzidine Acenaphthene Acetophenone Inthracene Benz[a]anthracene Benzo[a]pyrene Benzo[g,h,i]perylene Benzo[k]fluoranthene	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 0.03 0.2 0.25 2.5	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol keenaphthene keenaphthene keenaphthylene kee	μg/L	$\begin{array}{c c} 5\\ \hline 1,100\\ \hline 2\\ \hline 10,000\\ \hline \\ \hline \\ 0.83\\ \hline 70\\ \hline 600\\ \hline \\ \hline \\ 75\\ \hline 0.46\\ \hline 360\\ \hline 91\\ \hline 36\\ \hline 930\\ \hline 930\\ \hline 0.12\\ \hline 530\\ \hline 530\\ \hline 530\\ \hline 1,900\\ \hline 1,800\\ \hline 0.03\\ \hline 0.2\\ \hline 0.25\\ \hline \\ 2.5\\ \hline 6\\ \hline \end{array}$	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.023 J 0.01 U 0.1 U 0.21 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A N/A 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.43 J	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride Kylenes femi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine &cenaphthene &cenaphthene &cenaphthene &cenaphthene &cenaphthene &cenaphthene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene is(2-Ethylhexyl)phthalate Caprolactam	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 0.03 0.2 0.25 2.5	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.21 J 2.6 UJ	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.2 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
Trichloroethene Trichloroethene Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorolence Semi-Volatile Organic Compounds^ The semi-Volatile Organic Compounds The semi-Volatile Organic Compou	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 0.03 0.2 2.5 6 9,900	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 415 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.21 J 2.6 UJ 4	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.2.6 UJ 2.2	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (ylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol (wenaphthene Acenaphthene Acenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k,i]perylene Benzo[k]fluoranthene is(2-Ethylhexyl)phthalate Carbazole Chrysene	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 0.03 0.2 2.5 6 9,900 25	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.21 J 2.6 UJ 4 0.019 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 2 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acetaphthene Acetaphthene Acetophenone Anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Senzo[k]fluoranthene Senzo[a]pyrene Benzo[k]fluoranthene Carbazole Chrysene Dibenz[a,h]anthracene	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.25 2.5 6 9,900 25 0.025	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acetaphthene Acetaphthene Acetophenone Anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Benzo[k,i]perylene Carbazole Chrysene Dibenz[a,h]anthrace	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.25 2.5 6 9,900 25 0.025 15,000	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 1.3	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene 'richlorofluoromethane /inyl chloride (ylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acetaphthene Acetaphenone Anthracene Benzo[a]anthracene Benzo[b]fluoranthene Benzo[k,i]perylene Benzo[k,i	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.25 2.5 6 9,900 25 0.025 15,000 800	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 9.8 U	1 U 1 U 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 1.3 0.21	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene 'richlorofluoromethane /inyl chloride (ylenes semi-Volatile Organic Compounds^ gemi-Volatile Organic Compounds gemi-Volatile Organic Compounds g	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.25 6 9,900 25 0.025 15,000 800 290	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 1.3 0.21 0.34	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 S 0.18	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene 'richlorofluoromethane /inyl chloride (ylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benzo[a]anthracene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k,i]	μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 1.3 0.21 0.34 0.1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene 'richlorofluoromethane /inyl chloride (ylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acetaphtene Acetaphenone Anthracene Benzo[a]aptrene Benzo[b]fluoranthene Benzo[k,i]perylene B	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 1.3 0.21 0.34 0.1 U 0.033 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 S 0.1 B 0.1 U 18.1	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.14 1 U 1 U 0.14 1 U 1 U 0.14 1 U 0.11 0.11 0.1 U 0.1	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene 'richlorofluoromethane /inyl chloride (ylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acetaphtene Acetaphene Acetaphenone Anthracene Benzo[a]anthracene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k,ffluoranthene -isi(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Acarbazole Chrysene Dibenz[a,h]anthracene Dibenz[a]at	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 1.3 0.21 0.34 0.1 U 0.033 J 1 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.14 1 U 1 U 0.14 1 U 1 U 0.14 1 U 0.10 0.11 0.1 U 0.1 U 0	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene 'richlorofluoromethane /inyl chloride Kylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acenaphthylene Acetophenone Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[a]pyrene Benzo[b]fluoranthene -isi(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene D	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 1.3 0.21 0.34 0.1 U 0.033 J 1 U 2.6 U	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 S 0.1	1 U 1 U 3 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene 'richlorofluoromethane 'richlorofluoromethane 'inyl chloride Kylenes emi-Volatile Organic Compounds^ emi-Volatile Organic Compounds^ emi-Volatile Organic Compounds^ (1-Biphenyl ,2-A-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine xeenaphthene xeenaphthylene xeetophenone mthracene Benzo[a]pyrene Benzo[a]pyrene Benzo[b]fluoranthene is(2-Ethylhexyl)phthalate Carbazole chrysene Dibenz[a,h]anthracene Diben	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.34 0.1 U 0.34 0.1 U 0.33 J 1 U 2.6 U 0.053 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 C 0.1 B 0.1 U 0.62	1 U 1 U 3 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (ylenes semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinothylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acenaphthene Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene Diethylphthalate Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Carbazole Chrysene Diethylphthalate Carbazole Chrysene Diethylphthalate Carbazole Chrysene Diethylphthalate Carbazole Chrysene Diethylphthalate Carbazole Chrysene Diethylphthalate Carbazole Chrysene Diethylphthalate Chorone Menol Phenol Phenol	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 1.3 0.21 0.34 0.1 U 0.033 J 1 U 2.6 U 0.053 J 0.48 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.061 J 1 J 3 0.1 U 0.1 S 0.1 S 0.1 U 1.1 2.6 U 0.62 1.78	1 U 1 U 3 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 2 U 1 U 0.1 U 0.2 J 1 U 0.02 J 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^].1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dinotobenzene ,4-Dinothylphenol -Chlorophenol -Methylnaphthalene -Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine .cenaphthene .cenaphthene .cenaphthene .cetophenone .nthracene Benz[a]anthracene Benz[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 0.21 J 2.6 UJ 1 U 0.033 J 1 U 2.6 U 0.48 J 0.15	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.14 1 U 1 U 0.14 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine .cenaphthene .cenaphthene .cenaphthylene .cetophenone anthracene anze[a]anthracene anzo[a]pyrene anzo[b]fluoranthene anzo[g,h,i]perylene anzo[k]fluoranthene arabazole Chrysene Dibenz[a,h]anthracene Dib	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800	1 U 7.4 145 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 1.3 0.21 0.34 0.1 U 0.033 J 1 U 2.6 U 0.053 J 0.48 J	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.061 J 1 J 3 0.1 U 0.1 S 0.1 S 0.1 U 1.1 2.6 U 0.62 1.78	1 U 1 U 3 U 3 U 0.4 J N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 2 U 1 U 0.1 U 0.2 J 1 U 0.02 J 1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (ylenes emi-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ani-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine .cenaphthene .cenaphthene .cenaphthylene .cetophenone anthracene anze[a]anthracene anzo[a]pyrene anzo[b]fluoranthene anzo[g,h,i]perylene anzo[k]fluoranthene arabazole Chrysene Dibenz[a,h]anthracene Dib	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.21 J 2.6 UJ 1 U 0.033 J 1 U 0.033 J 1 U 0.053 J 0.048 J 0.15	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A N/A N/A	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 0.14 1 U 1 U 0.14 1 U 0.1 U	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.098 U N/A N/A 0.08 J 0.076 J N/A 0.098 U 0.098 U N/A N/A N/A
richloroethene richlorofluoromethane /inyl chloride (jugnes) emi-Volatile Organic Compounds^ glBiphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol -Methylpheno	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 0.011 1 5,800	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 98 U 414 1,360 9.8 U 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.21 J 2.6 UJ 1 U 0.033 J 1 U 0.033 J 1 U 0.053 J 0.048 J 0.15	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.14 1 U 1 U 0.14 1 U 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.10 0.10 0.1 U 0.1 U 0	1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A 0.098 U N/A N/A 0.08 J 0.076 J N/A 0.098 U 0.098 U N/A N/A N/A
Frichloroethene Frichlorofluoromethane Vinyl chloride Xylenes Semi-Volatile Organic Compounds^	μg/L μg/L	5 1,100 2 10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 0.36 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	1 U 7.4 145 N/A 98 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 9.8 U 414 1,360 9.8 U 414 1,360 9.8 U 45.9 17.1 81 9.8 U 9.8 U	1 U 1 U 0.82 J 0.82 J 1 U N/A N/A N/A N/A 0.069 J 0.59 J 1 U 0.058 J 0.47 J 2.1 U 1 U 0.42 0.44 0.41 J 0.5 0.05 J 0.023 J 0.041 J 0.1 U 0.1 U 0.1 U 0.1 U 0.21 J 2.6 UJ 4 0.033 J 1 U 2.6 U 0.34 0.1 S N/A	1 U 1 U 2.9 J 1 U N/A N/A N/A N/A N/A N/A 8.6 31.6 0.62 J 1.7 11.1 41.8 1 U 0.3 0.061 J 1 J 3 0.1 U 0.1 U	1 U 1 U 3 U 0.4 J N/A N/A N/A N/A N/A 0.14 1 U 1 U 1 U 1 U 1 U 1 U 0.14 1 U 1 U 0.14 1 U 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.14 1 U 0.10 0.10 0.1 U 0.1	1 U 1 U 1 U 3 U N/A N/A N/A N/A N/A N/A N/A N/A

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

 $\ensuremath{N/A}\xspace$ indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Parameter	Units	PAL	LF-04S*	LF-04S*	LF-05	SG01-PDP000	
Volatile Organic Compounds			7/24/2018	8/22/2016	8/19/2016	8/19/2016	7/25/2018
1.1.2.2-Tetrachloroethane	μg/L	0.076	1 U	1 U	1 U	1 U	1 U
I,1-Dichloroethane	μg/L	2.7	1 U	1 U	1 U	1.3	1 U
,2,4-Trichlorobenzene	μg/L	70	1 U	1 U	1 U	1 U	1 U
,2,4-Trimethylbenzene	μg/L		N/A	N/A	N/A	N/A	N/A
,2-Dibromo-3-chloropropane	μg/L	0.2	5 U 1 U	5 U 1 U	5 U 1 U	5 U	5 U 1 U
,2-Dichlorobenzene .2-Dichloroethane	μg/L μg/L	<u>600</u> 5	1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
.2-Dichloroethene (Total)	μg/L μg/L	70	0.68 J	0.52 J	2 U	4	0.73 J
,2-Dichloropropane	μg/L	5	1 U	1 U	1 U	1 U	1 U
,3,5-Trimethylbenzene	μg/L		N/A	N/A	N/A	N/A	N/A
,3-Dichlorobenzene	μg/L		1 U	1 U	1 U	1 U	1 U
,4-Dichlorobenzene	μg/L	75	1 U	1 U	1 U	1 U	1 U
-Butanone (MEK)	μg/L	5,600	10 U	10 U	10 U	10 U	10 U
2-Hexanone	μg/L	38	10 U	10 U	10 U	10 U	10 U
I-Methyl-2-pentanone (MIBK) Acetone	μg/L μg/L	1,200	10 U 5.3 J	10 U 10 U	10 U 10 U	10 U 21.2	10 U 5.7 J
Benzene	μg/L μg/L	5	5.5 J 6.8	6.1	100 1 U	162	41.3
Bromodichloromethane	μg/L μg/L	0.13	1 U	1 U	1 U	1 U	1 U
Bromoform	μg/L	3.3	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	μg/L	810	1 U	1 U	1 U	1.8	1 U
Carbon tetrachloride	μg/L	5	1 U	1 U	1 UJ	1 UJ	1 U
Chlorobenzene	μg/L	100	1 U	1 U	1 U	1 U	1 U
Chloroform	μg/L	0.22	1 U	1 U	1 U	1 U	1 U
Chloromethane is-1,2-Dichloroethene	μg/L μg/Ι	190 70	1 U	1 U	1 UJ	1 UJ	1 U
sis-1,2-Dichloropene	μg/L μg/L	/0	0.68 J 1 U	0.52 J 1 U	1 U 1 U	3.7 1 U	0.73 J 1 U
Cyclohexane	μg/L μg/L	13,000	10 U	10 U	10 UJ	10 UJ	10 U
Ethylbenzene	μg/L μg/L	700	1 U	1 U	1 U	1.6	1 U
sopropylbenzene	μg/L	450	1 U	1 U	1 U	0.29 J	1 U
Methyl Acetate	μg/L	20,000	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	μg/L	14	0.56 J	0.84 J	1 U	1 U	1 U
Methylene Chloride	μg/L	5	1 U	1 U	1 U	1 U	1 U
Naphthalene	μg/L	0.12	N/A 1 U	N/A 1 U	N/A 1 U	N/A 1 U	N/A 1 U
Styrene Fetrachloroethene	μg/L μg/L	5	1 U	1 U	1 U	1 U	1 U
Toluene	μg/L μg/L	1,000	1 U	1 U	1 U	31.1	4.8
rans-1,2-Dichloroethene	μg/L	100	1 U	1 U	1 U	0.31 J	1 U
Trichloroethene	μg/L	5	0.59 J	0.33 J	1 U	1 U	1 U
Frichlorofluoromethane	μg/L	1,100	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	μg/L	2	0.41 J	1 U	1 U	1.3	1 U
Xylenes	μg/L μg/L	2 10,000	0.41 J 3 U	1 U 3 U	1 U 3 U	1.3 27.2	1 U 3.8
Xylenes Semi-Volatile Organic Compounds^	μg/L	10,000	3 U	3 U	3 U	27.2	3.8
Xylenes Semi-Volatile Organic Compounds^ .,1-Biphenyl	μg/L μg/L	0.83	3 U N/A	3 U 1 U	3 U 1 U	27.2 1 U	3.8 N/A
Xylenes Semi-Volatile Organic Compounds^ .,1-Biphenyl .,2,4-Trichlorobenzene	μg/L μg/L μg/L	10,000	3 U N/A N/A	3 U 1 U N/A	3 U 1 U N/A	27.2 1 U N/A	3.8 N/A N/A
Kylenes Semi-Volatile Organic Compounds^ .1-Biphenyl .2,4-Trichlorobenzene .2-Dichlorobenzene	μg/L μg/L μg/L μg/L	0.83 70	3 U N/A	3 U 1 U	3 U 1 U	27.2 1 U	3.8 N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene	μg/L μg/L μg/L	0.83 70	3 U N/A N/A N/A	3 U 1 U N/A N/A	3 U 1 U N/A N/A	27.2 1 U N/A N/A	3.8 N/A N/A N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46	3 U N/A N/A N/A N/A 0.19	3 U 1 U N/A N/A N/A N/A 0.18	3 U 1 U N/A N/A N/A N/A 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29	3.8 N/A N/A N/A N/A N/A 0.26
Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2,4-Dimethylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46 360	3 U N/A N/A N/A N/A 0.19 N/A	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J	3 U 1 U N/A N/A N/A 0.1 U 1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4	3.8 N/A N/A N/A N/A 0.26 N/A
Xylenes Semi-Volatile Organic Compounds^ 1,1-Biphenyl 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dinethylphenol 2,-Chlorophenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91	3 U N/A N/A N/A N/A 0.19 N/A N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U	3.8 N/A N/A N/A N/A 0.26 N/A N/A
Semi-Volatile Organic Compounds^ .1-Biphenyl .2,4-Trichlorobenzene .2-Dichlorobenzene .3-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dioxane .4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36	3 U N/A N/A N/A N/A 0.19 N/A N/A 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17
Semi-Volatile Organic Compounds^ .1-Biphenyl .2,4-Trichlorobenzene .2-Dichlorobenzene .3-Dichlorobenzene .4-Dichlorobenzene .4-Dimethylphenol 2-Methylphenol 2-Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930	3 U N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A
Xylenes Semi-Volatile Organic Compounds^ .1-Biphenyl .2,4-Trichlorobenzene .2-Dichlorobenzene .3-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dichlorobenzene .4-Dioxane 2,-Chlorophenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36	3 U N/A N/A N/A N/A 0.19 N/A N/A 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17
Semi-Volatile Organic Compounds^ .1-Biphenyl .2.4-Trichlorobenzene .2-Dichlorobenzene .3-Dichlorobenzene .4-Dichlorobenzene .4-Dimethylphenol 2-Methylnaphthalene 2-Methylphenol && && && .4-Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930	3 U N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 2 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol 2-Chlorophenol -Methylnaphthalene 2-Methylphenol &&4-Methylphenol :A'-Methylphenol :A'-Methylphenol :A'-Methylphenol :A'-Methylphenol :A'-Methylphenol :A'-Methylphenol :A'-Methylphenol :A'-Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530	3 U N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A N/A 0.043 J 0.098 U	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 2 U 1 U 0.1 U 0.1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A N/A 0.12 0.09 J
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane 2,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &3'-Dichlorobenzidine Xcenaphthene Xcenaphthylene	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900	3 U N/A N/A N/A N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U N/A N/A 0.098 U N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 1 U 2 U 1 U 0.1 U 1 U 0.1 U 1 U 1 U 0.1 U 1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A N/A N/A N/A N/A 0.12 0.09 J N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol 2,4-Dimethylphenol -Chlorophenol -Methylphenol &&4-Methylphenol &&4-Methylphene Acenaphthene Acenaphthylene Acetophenone Anthracene	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800	3 U N/A N/A N/A N/A N/A 0.098 U N/A N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 2 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A N/A N/A N/A N/A 0.12 0.09 J N/A 0.13
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol -Methylnaphthalene -Methylphenol &&4-Methylphenol &&Acenaphthene Accenaphthylene Accetophenone Anthracene Banz[a]anthracene	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03	3 U N/A N/A N/A N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U N/A 0.098 U N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.13 0.098 U
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol 2-Chlorophenol -Methylnaphthalene -Methylphenol &&4-Methylphenol &&Acenaphthene Accenaphthene Accenaphthene Accenaphthylene Accetophenone Anthracene Banz[a]anthracene Banz[a]pyrene	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U 0.098 U 0.098 U 0.098 U 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane 2,4-Dimethylphenol 2-Chlorophenol -Methylphenol 2-Methylphenol &A-Methylphenol Acenaphthene Acenaphthene Acenaphthylene Acetophenone Anthracene Banzo[a]anthracene Banzo[b]fluoranthene	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U 0.098 U 0.098 U 0.098 U 0.098 U 0.098 U 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.055 J	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol 2-Chlorophenol -Methylnaphthalene -Methylphenol &&4-Methylphenol &&Acenaphthene Accenaphthene Accenaphthene Accenaphthylene Accetophenone Anthracene Banz[a]anthracene Banz[a]pyrene	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U 0.098 U 0.098 U 0.098 U 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U	3 U 1 U N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J	3.8 N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane 2.4-Dimethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol &-Methylphenol Ac	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2	3 U N/A 0.098 U N/A 0.098 U N/A 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.055 J 0.02 J	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol &4-Methylphenol &cenaphthene Acenaphthylene Acetophenone Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[k]fluoranthene senzo[k]fluoranthene sito(2-Ethylhexyl)phthalate	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.2 2.5	3 U N/A 0.098 U N/A 0.098 U N/A 0.098 U N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.055 J 0.02 J 0.022 J	3.8 N/A N/A N/A N/A O.26 N/A N/A O.17 N/A N/A N/A O.17 N/A O.17 N/A O.17 N/A O.12 O.09 J N/A O.13 O.098 U O.025 J O.036 J O.04 J O.032 J N/A N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol -Wethylphenol -Wethylphene Acetophenone Anthracene -Benz[a]anthracene -Benzo[b]filuoranthene -Benzo[k]filuoranthene <	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.2 2.5 6 9,900	3 U N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.025 J 0.022 J 1 U 2.6 UJ 3.2	3.8 N/A N/A N/A N/A O.26 N/A N/A O.17 N/A N/A N/A N/A O.12 O.09 J N/A O.13 O.098 U O.025 J O.036 J O.032 J N/A N/A N/A N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol -Methylphenol &4-Methylphenol &4-Methylphenol &Acenaphthene Acetophenone Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[k,j]perylene Benzo[k,j]perylene Benzo[k,j]fluoranthene Carbazole Chrysene	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.2 2.5 6 9,900 25	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.025 J 0.02 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A 0.17 N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol -Methylphenol &4-Methylphenol &4-Methylphene &Acenaphthylene &Acenaphthylene &Acenaphthylene &Acenaphthylene &Benzo[a]anthracene >	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.2 2.5 6 9,900 25 0.025	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U 0.098 U	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A 0.17 N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A 0.13 0.098 U 0.098 U 0.098 U
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &-Methylphenol &-Methylphenol <td>μg/L μg/L μg/L</td> <td>10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.25 2.5 6 9,900 25 0.025 15,000</td> <td>3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U 0.098 U N/A</td> <td>3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td> <td>3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U</td> <td>27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U</td> <td>3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A</td>	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.25 2.5 6 9,900 25 0.025 15,000	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U 0.098 U N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A
Kylenes Gemi-Volatile Organic Compounds^ ,1-Biphenyl ,2-Dichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dinethylphenol Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine &cenaphthene &cenaphthylene &cenaphthylene &cenaphthylene &cetophenone Nuthracene Benzo[a]apyrene Benzo[a]apyrene Benzo[k]fluoranthene sis(2-Ethylhexyl)phthalate Carbazole Chrysene Dienz[a,h]anthracene Dienz[a,h]anthracene Diethylphthalate	μg/L	10,000 0.83 70 600 75 0.46 360 930 930 0.12 530 530 1,900 1,800 0.03 0.25 6 9,900 25 0.025 15,000 800	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U 0.098 U 0.0098 U 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.5 1 U	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A N/A 0.13 0.098 U N/A N/A N/A N/A 0.198 U 0.098 U
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol -Methylphenol -Methylphenol -Wethylphenol -Wethylphenol -Methylphenol -Wethylphenol -Methylphenol -Methylphenol -Wethylphenol -Methylphenol -Wetophenone	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.25 6 9,900 25 0.025 15,000 800 290	3 U N/A 0.098 U N/A 0.098 U N/A N/A N/A 0.098 U N/A 0.098 U 0.088 J	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.032 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.7 0.14 0.75 0.02 J 0.02 J 0.02 J 0.02 J 0.02 J 0.02 J 0.02 J 0.02 J 0.03 J	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A 0.198 U 0.098 U 0.098 U 0.098 U 0.098 U
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2-A-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol -Methylphenol -Methylphenol -Wethylphenol -Wethylphenol -Methylphenol -Wethylphenol -Methylphenol -Methylphenol -Wethylphenol -Methylphenol -Methylphenol	μg/L	10,000 0.83 70 600 75 0.46 360 930 930 0.12 530 530 1,900 1,800 0.03 0.25 6 9,900 25 0.025 15,000 800	3 U N/A N/A N/A N/A N/A 0.19 N/A N/A 0.098 U N/A N/A 0.098 U 0.098 U 0.0098 U 0.098 U	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.032 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.5 1 U	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A N/A 0.13 0.098 U N/A N/A N/A N/A 0.198 U 0.098 U
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol -Methylphenol :4-Methylphenol(m&p Cresol) :3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Banzo[a]anthracene Banzo[a]pyrene Banzo[b]fluoranthene Banzo[k]fluoranthene sis(2-Ethylhexyl)phthalate Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Plooranthene Sitorene Nithracene Senzo[k], japtrylene	μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25	3 U N/A N/A N/A N/A N/A N/A 0.19 N/A 0.098 U N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U 0.071 B N/A	3 U 1 U N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.022 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.5 0.1 U	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.036 J 0.036 J 0.036 J N/A N/A N/A N/A 0.198 U 0.098 U 0.098 U 0.098 U
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol && 4-Methylphenol && Acenaphthylene Acenaphthylene Acetophenone	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	3 U N/A N/A N/A N/A N/A N/A N/A 0.19 N/A N/A N/A N/A N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U 0.071 B N/A N/A	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U 0.1 U 0.2 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.032 J 0.032 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 1 U 1 U 2.6 UJ 56.7 1 U 2.6 U	3.8 N/A N/A N/A N/A O.26 N/A N/A O.17 N/A N/A O.17 N/A N/A O.12 O.09 J N/A O.12 O.09 J N/A O.13 O.098 U O.025 J O.036 J O.036 J O.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &&4-Methylphenol &&Aeenaphthene Acetophenone Anthracene<	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	3 U N/A N/A N/A N/A N/A N/A N/A 0.19 N/A N/A N/A N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U 0.071 B N/A N/A 0.098 U 0.098 U	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U 0.0 21 J 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.055 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 1 U 2.6 U 1.1 2.6 U 1.1 2.6 U 1.1	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A N/A 0.198 U 0.098 U 0.098 U 11 N/A N/A 0.098 U 0.098 U
Kylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol && && -Methylphenol && && -Methylphenol && .4-Dichlorobenzidine Acenaphthene Acenaphthene Acenaphthylene Acetophenone Anthracene Benze[a]anthracene Benze[b]fluoranthene Benze[b]fluoranthene Benze[b]fluoranthene Benze[b]fluoranthene Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Dibenz[a,h]anthracene	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 5,000 800 290 0.25 0.12 5,800	3 U N/A 0.098 U N/A 0.098 U 0.098 U 0.098 U 0.098 U 0.098 U N/A N/A N/A 0.098 U 0.071 B N/A N/A N/A N/A 0.098 U 0.071 B N/A N/A N/A	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.032 J 0.055 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 1 U 2.6 U 1.1 0.43 J	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.036 J 0.036 J 0.036 J 0.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Sylenes Semi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dichlorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol && && -Methylphenol && Methylphenol && Methylphenol Methylphenol Methylphenol Methylphenol Methylphenol Methylphenol Methylphenol Methylphenol	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	3 U N/A 0.098 U 0.071 B N/A N/A 0.098 U N/A 0.098 U 0.098 U 0.071 B N/A N/A 0.098 U N/A </td <td>3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.10 1 U 0.61 J 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td> <td>3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U</td> <td>27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.055 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 1 U 2.6 U 1 U 2.6 U 1.1 0.73 0.1 U 2.6 U 1.1 0.73 0.36</td> <td>3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</td>	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.10 1 U 0.61 J 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.055 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 1 U 2.6 U 1 U 2.6 U 1.1 0.73 0.1 U 2.6 U 1.1 0.73 0.36	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Kylenes cemi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dicklorobenzene ,4-Dioxane ,4-Dimethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &&4-Methylphenol &&4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Xcenaphthene Xcenaphthylene Xcetophenone Anthracene Benze[a]anthracene Benze[a]pyrene Benzo[b]fluoranthene xis(2-Ethylhexyl)phthalate Caprolactam Carbazole Chrysene Dibenz[a,h]anthracene Diethylphthalate Plovranthene Varonthene Pitoranthene Physene Dibenz[a,h]anthracene Diethylphthalate Physene Dibenz[a,h]anthracene Physene Pitoranthene Phorene Nitroso-di-n-propylamine Penanth	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 5,000 800 290 0.25 0.12 5,800	3 U N/A 0.098 U N/A 0.098 U 0.098 U 0.098 U 0.098 U 0.098 U N/A N/A N/A 0.098 U 0.071 B N/A N/A N/A N/A 0.098 U 0.071 B N/A N/A N/A	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.032 J 0.055 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 1 U 2.6 U 1.1 0.43 J	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.12 0.09 J N/A 0.13 0.098 U 0.025 J 0.036 J 0.036 J 0.036 J 0.036 J 0.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Kylenes cemi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Diokane ,4-Dimethylphenol -Chlorophenol -Methylaphthalene -Methylphenol &4-Methylphenol &Aenophthene &Aeenaphthene &Aeenaphthylene &Aeenaphthylene &Aeenaphthylene &Aeenaphthylene &Aeenaphthylene &Aeenaplithene &Aeenaplithene Barzo[g],h	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 0.03 0.2 0.25 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12	3 U N/A N/A N/A N/A N/A N/A 0.19 N/A N/A N/A N/A N/A 0.098 U N/A 0.098 U N/A 0.098 U 0.071 B N/A 0.098 U N/A 0.098 U N/A <td>3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td> <td>3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1 U 0.1</td> <td>27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.022 J 0.022 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 3.2 0.1 U 1 U 2.6 U 1 U 2.6 U 1.1 0.43 J 0.36 N/A</td> <td>3.8 N/A N/A N/A N/A N/A O.26 N/A N/A O.17 N/A N/A N/A O.12 O.09 J N/A O.13 O.098 U O.025 J O.036 J O.04 J O.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</td>	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.1 U 1 U 0.054 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 1 U 0.1 U 1 U 0.1 U 1 U 0.1	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.08 J 0.032 J 0.022 J 0.022 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 3.2 0.1 U 1 U 2.6 U 1 U 2.6 U 1.1 0.43 J 0.36 N/A	3.8 N/A N/A N/A N/A N/A O.26 N/A N/A O.17 N/A N/A N/A O.12 O.09 J N/A O.13 O.098 U O.025 J O.036 J O.04 J O.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Kylenes cemi-Volatile Organic Compounds^ ,1-Biphenyl ,2,4-Trichlorobenzene ,2-Dichlorobenzene ,3-Dichlorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dicklorobenzene ,4-Dinethylphenol -Chlorophenol -Methylnaphthalene -Methylphenol &4-Methylphenol(m&p Cresol) ,3'-Dichlorobenzidine Acenaphthene Acenaphthylene Acetophenone Anthracene Benze[a]anthracene Benze[b]fluoranthene Benze[b]fluoranthene Benze[b]fluoranthene Benze[k]fluoranthene Diskoz[a,h]aperylene Benze[k]fluoranthene Diskoz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene Dibenz[a,h]anthracene	μg/L μg/L	10,000 0.83 70 600 75 0.46 360 91 36 930 0.12 530 530 1,900 1,800 0.03 0.2 2.5 6 9,900 25 0.025 15,000 800 290 0.25 0.12 5,000 800 290 0.25 0.12 5,800	3 U N/A 0.098 U 0.071 B N/A N/A N/A 0.098 U 0.098 U 0.098 U N/A 0.098 U	3 U 1 U N/A N/A N/A N/A 0.18 0.95 J 1 U 0.10 1 U 0.61 J 1 U 0.61 J 1 U 0.054 J 0.023 J 0.48 J 0.023 J 0.48 J 0.16 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	3 U 1 U N/A N/A N/A N/A 0.1 U 1 U 1 U 0.1 U 1 U 0.1 U	27.2 1 U N/A N/A N/A N/A 0.29 30.4 1 U 1.1 4.4 7.5 1 U 0.76 0.14 2.9 0.19 0.032 J 0.032 J 0.055 J 0.022 J 1 U 2.6 UJ 3.2 0.048 J 0.1 U 1 U 2.6 UJ 1 U 2.6 U 1 U 2.6 U 1.1 0.73 0.1 U 2.6 U 1.1 0.73 0.36	3.8 N/A N/A N/A N/A N/A 0.26 N/A N/A 0.17 N/A N/A 0.17 N/A N/A 0.12 0.09 J N/A 0.13 0.09 J N/A 0.13 0.09 U 0.025 J 0.036 J 0.04 J 0.032 J N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

 $\ensuremath{N/A}\xspace$ indicates that the parameter was not analyzed for this sample

* Non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

_			A11-017-PZ*	A11-037-PZ*	A11-043-PZ*	GL-03 (-3)*	GL-08 (-3)*	GL-09 (-2)*	GL-18 (-3)*	LF-01S	LF-02	LF-03S	LF-04S*	LF-05	SG01-PDP000
Parameter	Units	PAL	8/18/2016	8/18/2016	8/22/2016	12/1/2020	12/2/2020	11/24/2020	11/25/2020	8/19/2016	8/19/2016	8/19/2016	8/22/2016	8/19/2016	8/19/2016
Total Metals		•									•	•		•	
Aluminum	μg/L	20,000	N/A	63.9	463	558	159	2,640	303						
Antimony	μg/L	6	N/A	N/A	N/A	0.33 J	0.28 J	1.1	0.34 J	6 U	6 U	6 U	6 U	6 U	6 U
Arsenic	μg/L	10	N/A	N/A	N/A	1.7	5.7	27	10.4	11	19	26.5	8.4	5 U	6.9
Barium	μg/L	2,000	N/A	N/A	N/A	54	32.4	35.3	49.1	21.8	60.7	9.7 J	11.2	25.9	35.4
Beryllium	μg/L	4	N/A	N/A	N/A	0.2 U	0.2 U	0.2 U	0.2 U	1 U	1 U	2.7	1 U	2.4	1 U
Cadmium	μg/L	5	N/A	N/A	N/A	0.08 U	0.08 U	0.13	0.052 J	3 U	3 U	48.4	1.4 J	1.1 J	3 U
Calcium	μg/L		N/A	N/A	N/A	161,000	111,000	123,000	357,000	N/A	N/A	N/A	N/A	N/A	N/A
Chromium	μg/L	100	N/A	N/A	N/A	0.72	0.52	3.3	0.61	5 U	4.1 J	1.2 J	5 U	1.1 J	2.2 J
Chromium VI	μg/L	0.035	N/A	8 B	8 B	4 B	10 U	10 U	8 B						
Cobalt	μg/L	6	N/A	N/A	N/A	0.5 U	0.35 J	1.4	1.2	5 U	3.2 J	91.9	19.8	90.6	5 U
Copper	μg/L	1,300	N/A	N/A	N/A	0.81 J	1 U	6.1	1 U	2.7 J	5 U	17.8	5 U	16.3	5 U
Iron	μg/L	14,000	N/A	N/A	N/A	30.3 J	144	1,520	480	124	625	14,900	67,600	6,950	199
Lead	μg/L	15	N/A	N/A	N/A	0.54	0.22	3.1	0.059 J	5 U	25 U	5 U	5 U	9.2	5 U
Magnesium	μg/L		N/A	N/A	N/A	23.4	31.1	268	38.3	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	μg/L	430	N/A	N/A	N/A	0.54	2.7	36.1	2.8	120	16.5	368	9,440	1,040	9.4
Nickel	μg/L	390	N/A	N/A	N/A	0.75	5.1	9.8	23	1.8 B	14.2	137	33.5	110	1.2 B
Potassium	μg/L		N/A	N/A	N/A	17,700	54,900	56,600	151,000	N/A	N/A	N/A	N/A	N/A	N/A
Selenium	μg/L	50	N/A	N/A	N/A	2.3	2.1	2.1	3.9	8 U	8 U	8 U	8 U	8 U	8 U
Sodium	μg/L		N/A	N/A	N/A	13,900	89,700	208,000	202,000	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium	μg/L	86	N/A	N/A	N/A	29.7	28.7	20.6	22.5	66.1	43.2	0.55 J	5 U	3.5 J	96.1
Zinc	μg/L	6,000	N/A	N/A	N/A	2.8 J	5 U	15.9	3.4 J	3.6 J	5.1 J	246	44.8	161	11.2
Dissolved Metals															
Aluminum, Dissolved	μg/L	20,000	328	72.6	50 U	N/A	N/A	N/A	N/A	52	302	374	86.4	297	263
Arsenic, Dissolved	μg/L	10	25.5	95.6	5 U	N/A	N/A	N/A	N/A	7.9	17.3	29.4	9.6	5 U	5.6
Barium, Dissolved	μg/L	2,000	27	88.9	73.9	N/A	N/A	N/A	N/A	22.3	57.2	9.5 J	9 J	12.5	33.8
Beryllium, Dissolved	μg/L	4	0.66 J	1 U	1 U	N/A	N/A	N/A	N/A	1 U	1 U	2.7	0.37 J	1.5	1 U
Cadmium, Dissolved	μg/L	5	3 U	3 U	3 U	N/A	N/A	N/A	N/A	3 U	3 U	33.5	1.3 J	0.95 J	3 U
Chromium VI, Dissolved	μg/L	0.035	9 B	100 U	10 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10 U	N/A	N/A
Chromium, Dissolved	μg/L	100	0.92 J	5 U	5 U	N/A	N/A	N/A	N/A	5 U	0.95 J	0.89 J	5 U	5 U	5 U
Cobalt, Dissolved	μg/L	6	56.8	2.1 J	5 U	N/A	N/A	N/A	N/A	5 U	25 U	85.1	15.6	85.8	5 U
Copper, Dissolved	μg/L	1,300	5 U	5 U	5 U	N/A	N/A	N/A	N/A	1.6 J	5 U	12.1	5 U	3.9 J	5 U
Iron, Dissolved	μg/L	14,000	33,600	125,000	40,700	N/A	N/A	N/A	N/A	30.2 J	396	16,200	74,600	6,900	27 J
Manganese, Dissolved	μg/L	430	1,390	1,150	2,240	N/A	N/A	N/A	N/A	103	5 U	351	9,690	1,040	5 U
Mercury, Dissolved	μg/L	2	0.2 U	0.2 U	0.2 U	N/A	N/A	N/A	N/A	0.2 UJ	0.06 B	0.2 UJ	0.2 U	0.05 B	0.2 UJ
Nickel, Dissolved	μg/L	390	55.7	3.7 J	0.64 J	N/A	N/A	N/A	N/A	0.97 J	11.2	127	27.1	106	0.76 J
Selenium, Dissolved	μg/L	50	8 U	8 U	8 U	N/A	N/A	N/A	N/A	8 U	7.2 J	8 U	8 U	8 U	8 U
Silver, Dissolved	μg/L	94	6 U	6 U	1.1 J	N/A	N/A	N/A	N/A	6 U	6 U	6 U	2.3 J	6 U	6 U
Thallium, Dissolved	μg/L	2	10 U	10 U	10 U	N/A	N/A	N/A	N/A	10 U	50 U	10 U	3.5 J	10 U	10 U
Vanadium, Dissolved	μg/L	86	1.4 J	3.1 J	1.1 J	N/A	N/A	N/A	N/A	76.8	35.6	5 U	5 U	5 U	77.9
Zinc, Dissolved	μg/L	6,000	108	10 U	1.9 B	N/A	N/A	N/A	N/A	1.5 B	1.3 B	238	34.5	150	1.7 B
Other															
Cyanide	μg/L	200	10 U	2.7 J	10 U	N/A	N/A	N/A	N/A	44.6	148	10 U	16.1	5.2 J	16

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

N/A indicates that the parameter was not analyzed for this sample * Non-validated data

U: This analte ws not detected in the sample. The numeric value represents the sample quantitation/detection limit. J: The positive result reported for this analyte is a quantitative estimate.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank. UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Table 5 - Sub-Parcel A11-2Summary of Remedial Alternatives Evaluation

	POTENTIAL REMEDIAL ALTERNATIVES									
CRITERIA	Alternative 1 No Action	Alternative 2 In-Place Containment w/Cap and Vapor Barrier, & NAPL Removal	Alternative 3 In-Situ Treatment by Chemical Stabilization	Alternative 4 Removal and Disposal						
Description	- No remedial actions taken.	 In-place containment of materials below concrete slab, asphalt pavement, or soil cap. Vapor barrier and venting system (passive/active) below floor slab of new building, and utility backfill controls to restrict contaminant migration. Hot spot soil excavation in the unsaturated zone. Installation of MWs post development in known NAPL impacted areas, NAPL gauging and removal via bailer/absorbent socks. Property use restrictions and long-term monitoring and maintenance to ensure that controls remain effective. 	 Injection of chemical reagent using direct push technology or injection wells Two step process consisting of permeability reduction followed by chemical weathering and NAPL encapsulation. 	 Excavate contaminated materials and transport to approved off-site disposal facility. RCRA-hazardous materials would require treatment and/or disposal at an approved hazardous waste facility. 						
Long-Term Effectiveness	- Does not mitigate long-term direct contact and vapor inhalation risks.	 Capping will provide for long-term control of direct contact exposures. Sub-slab vapor barrier and venting system and utility backfill controls will prevent unacceptable inhalation risks. Long-term monitoring will be conducted to ensure long-term effectiveness. 	 Long-term effectiveness is unknown and would have to be estimated from treatability studies. May increase contaminant mobility. 	- Has the potential to be effective in the long-term.						
Reduction of Toxicity, Mobility and Volume (TMV) by Treatment	- No reduction in TMV.	- Reduction in TMV via NAPL hot spot excavations, NAPL removal during utility installation (if encountered), and NAPL removal from MWs.	 Treatability studies required to confirm potential reduction in TMV. In-situ chemical treatment has the potential to increase contaminant mobility. 	- Complete reduction of TMV of the waste from the Site.						
Short-Term Effectiveness	- Not effective.	- Expected to significantly increase short-term exposure risks to onsite workers because of the exposure to impacted soils.	 Short-term effectiveness is unknown and would have to be estimated from treatability studies. May increase short-term exposure risks because of material exposure, handling, and treatment. 	 Expected to significantly increase short-term exposure risks because of the exposure, handling, and transportation of a relatively large volume of waste. 						
Implementability	 Does not present any technical implementation concerns, but not expected to be administratively implementable because it does not address remedial objectives. 	- Can be readily implemented with available and proven technologies.	 Requires specialized equipment and materials. Treatability studies required to confirm technical implementability. 	- Potential short-term exposure risks, air emission controls, excavation of materials from below the groundwater table, materials handling and transportation, and other factors present significant implementation concerns.						
Community Acceptance	 Not anticipated to be favorable because it does not address remedial objectives. 	- Expected to be acceptable because it meets remedial objectives without increasing exposure risks to the community.	 Potentially acceptable depending on results of treatability studies and supplemental studies. 	 Transportation of large volumes of waste through any community is generally not favorable. Fugutive chemical emissions and odors are a potential concern. 						
State Acceptance	 Not anticipated to be favorable because it does not address remedial objectives. 	- Expected to be acceptable because it meets remedial objectives and evaluation criteria.	 Potentially acceptable depending on results of treatability studies and supplemental studies. 	- Potentially acceptable.						
Estimated Cost	\$0	\$2 million	\$7 million	\$12 million						
Conclusion	Does not meet cleanup objectives. NOT RECOMMENDED.	Cost-effectively meets cleanup objectives and evaluation criteria. RECOMMENDED .	Questionable effectiveness, implementation concerns, increased short-term exposure risks, and high cost. NOT RECOMMENDED .	Implementation concerns, increased short-term exposure risks, and extremely high cost. NOT RECOMMENDED .						

Notes:

- Estimated costs are prelminary order-of-magnitude costs developed for comparison purposes and may not account for all required items and components.

Table 6 - Sub-Parcel A11-2COPC Screening Analysis

Parameter	CAS#	Location of Max Result	Max Detection (mg/kg)	Final Flag	Min Detection (mg/kg)	Average Detection (mg/kg)	Total Samples	Frequency of Detection (%)	Cancer TR=1E-06 (mg/kg)	Non-Cancer HQ=0.1 (mg/kg)	COPC?
1,1-Biphenyl	92-52-4	A11-040-SB-10	155		0.02	11.0	46	41.30	410	20	YES (NC)
1,1-Dichloroethane	75-34-3	A11-057-SB-5	0.0092		0.0092	0.009	158	0.63	16	23,000	no
1,2-Dibromo-3-chloropropane	96-12-8	A11-054-SB-4	0.0032	J	0.0032	0.003	158	0.63	0.064	2.5	no
2,4-Dimethylphenol	105-67-9	A11-040-SB-10	31.4		0.045	4.37	41	24.39		1,600	no
2-Butanone (MEK)	78-93-3	A11-040A-SB-15	0.048		0.0031	0.01	158	24.68		19,000	no
2-Chloronaphthalene	91-58-7	A11-031-SB-10	0.19	J	0.19	0.2	46	2.17		6,000	no
2-Methylnaphthalene	91-57-6	A11-024H-SB-5	763		0.0026	36.15	159	94.34		300	YES (NC)
2-Methylphenol	95-48-7	A11-040-SB-10	21		0.055	3.488	41	19.51		4,100	no
4-Methyl-2-pentanone (MIBK)	108-10-1	A11-040A-SB-15	0.017		0.0018	0.0	158	2.53		14,000	no
Acenaphthene	83-32-9	A11-024H-SB-5	541		0.00059	15.0	159	96.23		4,500	no
Acenaphthylene	208-96-8	A11-024H-SB-5	950		0.0006	28.62	159	91.19			no
Acetone	67-64-1	A11-024S-SB-4	0.44		0.0071	0.10	158	63.29		67,000	no
Acetophenone	98-86-2	A11-040-SB-10	52		0	7	46	19.57		12,000	no
Aluminum	7429-90-5	A11-053-SB-9	44,900		3190	14,475	47	100.00		110,000	no
Anthracene	120-12-7	A11-024Q-SB-10	5270		0.0014	124.84	159	97.48		23,000	no
Antimony	7440-36-0	A11-003-SB-5	13.9		2	7.95	47	4.26		47	no
Aroclor 1248	12672-29-6	A11-002-SB-1	0.439		0.0949	0.27	24	8.33	0.95		no
Aroclor 1254	11097-69-1	A11-027-SB-11	0.469		0.0504	0.25	24	16.67	0.97	1.5	no
Aroclor 1260	11096-82-5	A11-027-SB-11	0.196	J	0.033	0.10	24	16.67	0.99		no
Arsenic	7440-38-2	A11-055-SB-5	35		2.3	7	53	86.79	3	48	YES (C)
Barium	7440-39-3	A11-055-SB-5	793		25.2	189	47	100.00		22,000	no
Benz[a]anthracene	56-55-3	A11-024H-SB-5	4330		0.0017	103.38	159	97.48	21		YES (C)
Benzaldehyde	100-52-7	A11-003-SB-5	0.11	1	0.035	0.1	46	8.70	820	12,000	no
Benzene	71-43-2	A11-024M-SB-15	588		0.0014	29.4	158	53.16	5.1	42	YES (C/NC)
Benzo[a]pyrene	50-32-8	A11-024H-SB-5	3,880		0.0012	82	160	98.75	2.1	22	YES (C/NC)

Table 6 - Sub-Parcel A11-2COPC Screening Analysis

Parameter	CAS#	Location of Max Result	Max Detection (mg/kg)	Final Flag	Min Detection (mg/kg)	Average Detection (mg/kg)	Total Samples	Frequency of Detection (%)	Cancer TR=1E-06 (mg/kg)	Non-Cancer HQ=0.1 (mg/kg)	COPC?
Benzo[b]fluoranthene	205-99-2	A11-024H-SB-5	7820		0.0028	188.1	159	99.37	21		YES (C)
Benzo[g,h,i]perylene	191-24-2	A11-024S-SB-4	649		0.0011	24	159	96.86			no
Benzo[k]fluoranthene	207-08-9	A11-024Q-SB-10	6810		0.0015	141.74	159	98.11	210		YES (C)
Beryllium	7440-41-7	A11-053-SB-9	5.9		0.21	1.69	47	74.47	6,900	230	no
bis(2-Ethylhexyl)phthalate	117-81-7	A11-027-SB-11	0.69	J	0.016	0.14	46	34.78	160	1,600	no
Cadmium	7440-43-9	A11-055-SB-5	13.2		0.37	3.63	47	36.17	9,300	98	no
Caprolactam	105-60-2	A11-003-SB-5	0.095	J	0.023	0.06	46	4.35		40,000	no
Carbazole	86-74-8	A11-040-SB-10	477		0.02	25.3	46	47.83			no
Carbon disulfide	75-15-0	A11-024M-SB-15	0.67		0.0018	0.02	158	34.18		350	no
Chloroform	67-66-3	A11-024S-SB-4	0.012		0.0023	0.006	158	1.90	1.4	100	no
Chromium	7440-47-3	A11-034-SB-1	2,850		19.6	503	47	100.00		180,000	no
Chromium VI	18540-29-9	A11-034-SB-1	4.1		1.4	2.85	46	8.70	6.3	350	no
Chrysene	218-01-9	A11-024H-SB-5	3,120		0.00048	83.2	159	100.00	2,100		YES (C)
cis-1,2-Dichloroethene	156-59-2	A11-055-SB-5	14.1		0.0058	3.53	158	2.53		230	no
Cobalt	7440-48-4	A11-040-SB-4	52		0.65	8.40	47	91.49	1,900	35	YES (NC)
Copper	7440-50-8	A11-003-SB-5	2,890		3.7	154	47	100.00		4,700	no
Cyanide	57-12-5	A11-040-SB-10	17.9		0.14	1.58	47	80.85		120	no
Cyclohexane	110-82-7	A11-024M-SB-15	0.21	J	0.0025	0.03	158	7.59		2,700	no
Dibenz[a,h]anthracene	53-70-3	A11-024H-SB-5	256		0.0018	9.7	159	88.68	2.1		YES (C)
Diethylphthalate	84-66-2	A11-030-SB-1	0.045	J	0.017	0.03	46	8.70		66,000	no
Di-n-butylphthalate	84-74-2	A11-031-SB-10	0.18	J	0.18	0.18	46	2.17		8,200	no
Ethylbenzene	100-41-4	A11-024M-SB-15	3.8		0.0012	0.19	158	22.15	25	2,000	no
Fluoranthene	206-44-0	A11-024H-SB-5	10,100		0.0017	342	159	100.00		3,000	YES (NC)
Fluorene	86-73-7	A11-024Q-SB-10	3,930		0.00083	102	159	96.86		3,000	YES (NC)
Indeno[1,2,3-c,d]pyrene	193-39-5	A11-024H-SB-5	701		0.0016	27.0	159	96.23	21		YES (C)
Iron	7439-89-6	A11-054-SB-4	428,000		13,200	107,115	47	100.00		82,000	YES (NC)

Table 6 - Sub-Parcel A11-2COPC Screening Analysis

Parameter	CAS#	Location of Max Result	Max Detection (mg/kg)	Final Flag	Min Detection (mg/kg)	Average Detection (mg/kg)	Total Samples	Frequency of Detection (%)	Cancer TR=1E-06 (mg/kg)	Non-Cancer HQ=0.1 (mg/kg)	COPC?
Isopropylbenzene	98-82-8	A11-024M-SB-15	1.1		0.0015	0.09	158	10.76		990	no
Lead^	7439-92-1	A11-029-SB-5	3,560		5.4	209	47	100.00		800	YES (NC)
Manganese	7439-96-5	A11-055-SB-1	30,300		249	10,689	47	100.00		2,600	YES (NC)
Mercury	7439-97-6	A11-024S-SB-4	16.1		0.0025	0.46	47	87.23		35	no
Methyl Acetate	79-20-9	A11-024M-SB-15	0.33	J	0.0013	0.04	138	34.06		120,000	no
Methylene Chloride	75-09-2	A11-024Q-SB-15	2.7	J	0.028	1.01	158	1.90	1,000	320	no
Naphthalene	91-20-3	A11-040A-SB-15	17,000		0.002	498	159	96.86	8.6	59	YES (C/NC)
Nickel	7440-02-0	A11-040-SB-4	345		3.2	43.9	47	97.87	64,000	2,200	no
N-Nitrosodiphenylamine	86-30-6	A11-054-SB-4	0.022	J	0.022	0.02	46	2.17	470		no
PCBs (total)*	1336-36-3	A11-002-SB-1	0.7817		0.033	0.37	24	25.00	0.94		no
Phenanthrene	85-01-8	A11-024Q-SB-10	14,400		0.0016	460	159	98.74			no
Phenol	108-95-2	A11-040-SB-10	23.7		0.018	3.27	41	24.39		25,000	no
Pyrene	129-00-0	A11-024H-SB-5	7,420		0.0013	228	159	100.00		2,300	YES (NC)
Selenium	7782-49-2	A11-053-SB-9	4.4		1.9	3.09	47	14.89		580	no
Silver	7440-22-4	A11-024S-SB-4	34.1		0.59	3.61	47	38.30		580	no
Styrene	100-42-5	A11-040-SB-10	0.08		0.0013	0.02	158	6.33		3,500	no
Tetrachloroethene	127-18-4	A11-057-SB-5	0.071		0.012	0.04	158	1.27	100	39	no
Thallium	7440-28-0	A11-037-SB-1	38.7		4.6	19.0	49	38.78		1.2	YES (NC)
Toluene	108-88-3	A11-024M-SB-15	207		0.0014	12.0	157	38.22		4,700	no
trans-1,2-Dichloroethene	156-60-5	A11-055-SB-5	0.016		0.016	0.02	158	0.63		2,300	no
Trichloroethene	79-01-6	A11-055-SB-5	0.11		0.0044	0.04	158	2.53	6	1.9	no
Vanadium	7440-62-2	A11-024S-SB-4	6,760		40	1,077	47	100.00		580	YES (NC)
Vinyl chloride	75-01-4	A11-055-SB-5	0.22		0.0067	0.06	158	2.53	1.7	37	no
Xylenes	1330-20-7	A11-024B-SB-5	234		0.003	13.8	158	33.54		250	no
Zinc	7440-66-6	A11-055-SB-5	4,390		27	475	47	100.00		35,000	no

J: The positive result reported for this analyte is a quantitative estimate.

COPC = Constituent of Potential Concern

TR = Target Risk

HQ = Hazard Quotient

C = Compound was identified as a cancer COPC NC = Compound was identified as a non-cancer COPC

*PCBs (total) include the sum of all detected aroclor mixtures, including those without RSLs (e.g. Aroclor 1262, Aroclor 1268) which are not displayed. ^Lead is assessed separately through the ALM model.

Table 7 - Sub-Parcel A11-2 Assessment of Lead

Exposure Unit	Surface/Sub-Surface	Maximum Concentration (mg/kg)	Arithmetic Mean (mg/kg)
Site-Wide EU1	Surface	225	66.5
	Sub-Surface	3,560	325
(33.4 ac.)	Pooled	3,560	209

Table 8 - Sub-Parcel A11-2 Soil Exposure Point Concentrations

		Site-Wide EU1 (33.4 ac.)									
	EPCs - Surfac	e Soils	EPCs - Sub-Sur	face Soils	EPCs - Pooled S	Soils					
Parameter	EPC Type	EPC (mg/kg)	EPC Type	EPC (mg/kg)	EPC Type	EPC (mg/kg)					
Arsenic	95% KM (t) UCL	4.77	95% GROS Adjusted Gamma UCL	10.8	95% KM (Chebyshev) UCL	9.63					
Cobalt	95% KM (t) UCL	5.89	95% KM Adjusted Gamma UCL	15.4	KM H-UCL	10.2					
Iron	95% Student's-t UCL	166,079	95% Adjusted Gamma UCL	116,179	95% Adjusted Gamma UCL	132,656					
Manganese	95% Student's-t UCL	17,435	95% Adjusted Gamma UCL	12,092	95% Chebyshev (Mean, Sd) UCL	16,365					
Thallium	95% KM (t) UCL	20.2	95% KM (t) UCL	10.1	95% KM (t) UCL	13.7					
Vanadium	95% Adjusted Gamma UCL	2,192	95% Adjusted Gamma UCL	1,469	95% Adjusted Gamma UCL	1,506					
1,1-Biphenyl	Gamma Adjusted KM- UCL	0.08	99% KM (Chebyshev) UCL	73.6	97.5% KM (Chebyshev) UCL	26.9					
2-Methylnaphthalene	95% KM Adjusted Gamma UCL	0.06	95% KM (Chebyshev) UCL	96.9	95% KM (Chebyshev) UCL	81.7					
Benzene	95% KM (t) UCL	0.004	99% KM (Chebyshev) UCL	92.7	99% KM (Chebyshev) UCL	78.0					
Benz[a]anthracene	95% Adjusted Gamma UCL	0.70	95% KM (Chebyshev) UCL	305	95% KM (Chebyshev) UCL	257					
Benzo[a]pyrene	95% Adjusted Gamma UCL	1.47	95% KM (Chebyshev) UCL	252	95% KM (Chebyshev) UCL	212					
Benzo[b]fluoranthene	95% Adjusted Gamma UCL	1.95	95% KM (Chebyshev) UCL	613	95% KM (Chebyshev) UCL	516					
Benzo[k]fluoranthene	Gamma Adjusted KM- UCL	1.28	95% KM (Chebyshev) UCL	490	95% KM (Chebyshev) UCL	412					
Chrysene	95% Adjusted Gamma UCL	0.73	95% Chebyshev (Mean, Sd) UCL	244	95% Chebyshev (Mean, Sd) UCL	206					
Dibenz[a,h]anthracene	Gamma Adjusted KM- UCL	0.27	95% KM (Chebyshev) UCL	25.3	95% KM (Chebyshev) UCL	21.3					
Fluoranthene	95% Adjusted Gamma UCL	0.83	99% Chebyshev (Mean, Sd) UCL	1,724	95% Chebyshev (Mean, Sd) UCL	833					
Fluorene	Gamma Adjusted KM- UCL	0.06	99% KM (Chebyshev) UCL	537	99% KM (Chebyshev) UCL	452					
Indeno[1,2,3-c,d]pyrene	Gamma Adjusted KM- UCL	0.74	95% KM (Chebyshev) UCL	74.7	95% KM (Chebyshev) UCL	63.0					
Naphthalene	KM H-UCL	0.19	99% KM (Chebyshev) UCL	2,659	99% KM (Chebyshev) UCL	2,240					
Pyrene	95% Adjusted Gamma UCL	0.73	99% Chebyshev (Mean, Sd) UCL	1,168	95% Chebyshev (Mean, Sd) UCL	562					

Table 9 - Sub-Parcel A11-2 Surface Soils Composite Worker Risk Ratios

		Site-Wide EU1 (33.4 ac.)							
				Composite	e Worker				
		[RSLs	(mg/kg)	Risk Ratios				
Parameter	Target Organs	EPC (mg/kg)	Cancer	Non-Cancer	Risk	HQ			
Arsenic	Cardiovascular; Dermal	4.77	3.00	480	1.6E-06	0.01			
Cobalt	Thyroid	5.89	1,900	350	3.1E-09	0.02			
Iron	Gastrointestinal	166,079		820,000		0.2			
Manganese	Nervous	17,435		26,000		0.7			
Thallium	Dermal	20.2		12		2			
Vanadium	Dermal	2,192		5,800		0.4			
1,1-Biphenyl	Urinary	0.08	410	200	2.0E-10	0.0004			
2-Methylnaphthalene	Respiratory	0.06		3,000		0.00002			
Benzene	Immune	0.004	5.1	420	7.8E-10	0.00001			
Benz[a]anthracene		0.70	21		3.3E-08				
Benzo[a]pyrene	Developmental	1.47	2.1	220	7.0E-07	0.007			
Benzo[b]fluoranthene		1.95	21		9.3E-08				
Benzo[k]fluoranthene		1.28	210		6.1E-09				
Chrysene		0.73	2,100		3.5E-10				
Dibenz[a,h]anthracene		0.27	2.1		1.3E-07				
Fluoranthene	Hepatic; Urinary	0.83		30,000		0.00003			
Fluorene	Hematologic	0.06		30,000		0.000002			
Indeno[1,2,3-c,d]pyrene		0.74	21		3.5E-08				
Naphthalene	Nervous; Respiratory	0.19	8.6	590	2.2E-08	0.0003			
Pyrene	Urinary	0.73		23,000		0.00003			
					3E-06	\checkmark			

RSLs were obtained from the EPA Regional Screening Levels at https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search EPC: Exposure Point Concentration HQ: Hazard Quotient HI: Hazard Index

	Cardiovascular	0
	Dermal	2
	Thyroid	0
	Gastrointestinal	0
	Nervous	1
Total HI	Developmental	0
	Urinary	0
	Respiratory	0
	Hematologic	0
	Immune	0
	Hepatic	0

Table 10 - Sub-Parcel A11-2 Subsurface Soils Composite Worker Risk Ratios

		Site-Wide EU1 (33.4 ac.)							
				Composite	e Worker				
			RSLs	(mg/kg)	Risk F	Ratios			
Parameter	Target Organs	EPC (mg/kg)	Cancer	Non-Cancer	Risk	HQ			
Arsenic	Cardiovascular; Dermal	10.8	3.00	480	3.6E-06	0.02			
Cobalt	Thyroid	15.4	1,900	350	8.1E-09	0.04			
Iron	Gastrointestinal	116,179		820,000		0.1			
Manganese	Nervous	12,092		26,000		0.5			
Thallium	Dermal	10.1		12		0.8			
Vanadium	Dermal	1,469		5,800		0.3			
1,1-Biphenyl	Urinary	73.6	410	200	1.8E-07	0.4			
2-Methylnaphthalene	Respiratory	96.9		3,000		0.03			
Benzene	Immune	92.7	5.1	420	1.8E-05	0.2			
Benz[a]anthracene		305	21		1.5E-05				
Benzo[a]pyrene	Developmental	252	2.1	220	1.2E-04	1			
Benzo[b]fluoranthene		613	21		2.9E-05				
Benzo[k]fluoranthene		490	210		2.3E-06				
Chrysene		244	2,100		1.2E-07				
Dibenz[a,h]anthracene		25.3	2.1		1.2E-05				
Fluoranthene	Hepatic; Urinary	1,724		30,000		0.06			
Fluorene	Hematologic	537		30,000		0.02			
Indeno[1,2,3-c,d]pyrene		74.7	21		3.6E-06				
Naphthalene	Nervous; Respiratory	2,659	8.6	590	3.1E-04	5			
Pyrene	Urinary	1,168		23,000		0.05			
					5E-04	\checkmark			

RSLs were obtained from the EPA Regional Screening Levels at https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search EPC: Exposure Point Concentration HQ: Hazard Quotient HI: Hazard Index

	Cardiovascular	0
	Dermal	1
	Thyroid	0
	Gastrointestinal	0
	Nervous	5
Total HI	Developmental	1
	Urinary	0
	Respiratory	5
	Hematologic	0
	Immune	0
	Hepatic	0

Table 11 - Sub-Parcel A11-2 Pooled Soils Composite Worker Risk Ratios

		Site-Wide EU1 (33.4 ac.)							
				Composite	e Worker				
			RSLs	(mg/kg)	Risk Ratios				
Parameter	Target Organs	EPC (mg/kg)	Cancer	Non-Cancer	Risk	HQ			
Arsenic	Cardiovascular; Dermal	9.63	3.00	480	3.2E-06	0.02			
Cobalt	Thyroid	10.2	1,900	350	5.4E-09	0.03			
Iron	Gastrointestinal	132,656		820,000		0.2			
Manganese	Nervous	16,365		26,000		0.6			
Thallium	Dermal	13.7		12		1			
Vanadium	Dermal	1,506		5,800		0.3			
1,1-Biphenyl	Urinary	26.9	410	200	6.6E-08	0.1			
2-Methylnaphthalene	Respiratory	81.7		3,000		0.03			
Benzene	Immune	78.0	5.1	420	1.5E-05	0.2			
Benz[a]anthracene		257	21		1.2E-05				
Benzo[a]pyrene	Developmental	212	2.1	220	1.0E-04	1			
Benzo[b]fluoranthene		516	21		2.5E-05				
Benzo[k]fluoranthene		412	210		2.0E-06				
Chrysene		206	2,100		9.8E-08				
Dibenz[a,h]anthracene		21.3	2.1		1.0E-05				
Fluoranthene	Hepatic; Urinary	833		30,000		0.03			
Fluorene	Hematologic	452		30,000		0.02			
Indeno[1,2,3-c,d]pyrene		63.0	21		3.0E-06				
Naphthalene	Nervous; Respiratory	2,240	8.6	590	2.6E-04	4			
Pyrene	Urinary	562		23,000		0.02			
				· ·	4E-04	\checkmark			

RSLs were obtained from the EPA Regional Screening Levels at https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search EPC: Exposure Point Concentration HQ: Hazard Quotient HI: Hazard Index

	Cardiovascular	0
	Dermal	1
	Thyroid	0
	Gastrointestinal	0
	Nervous	4
Total HI	Developmental	1
	Urinary	0
	Respiratory	4
	Hematologic	0
	Immune	0
	Hepatic	0

Table 12 - Sub-Parcel A11-2 Surface Soils Construction Worker Risk Ratios

1	Day		Site-W	Vide EU1 ((33.4 ac.))
				Constructio		
			SSLs	(mg/kg)	Risk	Ratios
Parameter	Target Organs	EPC (mg/kg)	Cancer	Non-Cancer	Risk	HQ
Arsenic	Cardiovascular; Dermal	4.77	3,782	24,083	1.3E-09	0.0002
Cobalt	Thyroid	5.89	1,122,584	236,599	5.2E-12	0.00002
Iron	Gastrointestinal	166,079		60,135,334		0.003
Manganese	Nervous	17,435		1,038,824		0.02
Thallium	Dermal	20.2		3,436		0.006
Vanadium	Dermal	2,192		399,453		0.005
1,1-Biphenyl	Urinary	0.08	751,692	1,604	1.1E-13	0.00005
2-Methylnaphthalene	Respiratory	0.06		254,633		0.0000002
Benzene	Immune	0.004	114	1,016	3.5E-11	0.000004
Benz[a]anthracene		0.70	13,143		5.3E-11	
Benzo[a]pyrene	Developmental	1.47	3,075	169	4.8E-10	0.009
Benzo[b]fluoranthene		1.95	29,746		6.6E-11	
Benzo[k]fluoranthene		1.28	300,384		4.3E-12	
Chrysene		0.73	1,697,895		4.3E-13	
Dibenz[a,h]anthracene		0.27	4,455		6.1E-11	
Fluoranthene	Hepatic; Urinary	0.83		2,546,327		0.0000003
Fluorene	Hematologic	0.06		2,546,327		0.00000002
Indeno[1,2,3-c,d]pyrene		0.74	36,559		2.0E-11	
Naphthalene	Nervous; Respiratory	0.19	335	493	5.7E-10	0.0004
Pyrene	Urinary	0.73		1,909,745		0.0000004
					3E-09	\checkmark

SSLs calculated using equations in 2002 EPA Supplemental Guidance <u>Guidance Equation Input Assumptions:</u>

5 cars/day (2 tons/car)

5 trucks/day (20 tons/truck)

3 meter source depth thickness

EPC: Exposure Point Concentration

HQ: Hazard Quotient

HI: Hazard Index

Total HI	Cardiovascular	0
	Dermal	0
	Thyroid	0
	Gastrointestinal	0
	Nervous	0
	Developmental	0
	Urinary	0
	Respiratory	0
	Hematologic	0
	Immune	0
	Hepatic	0

Table 13 - Sub-Parcel A11-2 Subsurface Soils Construction Worker Risk Ratios

1 Day		Site-Wide EU1 (33.4 ac.)				
			Construction Worker			
			SSLs (mg/kg)		Risk Ratios	
Parameter	Target Organs	EPC (mg/kg)	Cancer	Non-Cancer	Risk	HQ
Arsenic	Cardiovascular; Dermal	10.8	3,782	24,083	2.9E-09	0.0004
Cobalt	Thyroid	15.4	1,122,584	236,599	1.4E-11	0.00007
Iron	Gastrointestinal	116,179		60,135,334		0.002
Manganese	Nervous	12,092		1,038,824		0.01
Thallium	Dermal	10.1		3,436		0.003
Vanadium	Dermal	1,469		399,453		0.004
1,1-Biphenyl	Urinary	73.6	751,692	1,604	9.8E-11	0.05
2-Methylnaphthalene	Respiratory	96.9		254,633		0.0004
Benzene	Immune	92.7	114	1,016	8.1E-07	0.09
Benz[a]anthracene		305	13,143		2.3E-08	
Benzo[a]pyrene	Developmental	252	3,075	169	8.2E-08	1
Benzo[b]fluoranthene		613	29,746		2.1E-08	
Benzo[k]fluoranthene		490	300,384		1.6E-09	
Chrysene		244	1,697,895		1.4E-10	
Dibenz[a,h]anthracene		25.3	4,455		5.7E-09	
Fluoranthene	Hepatic; Urinary	1,724		2,546,327		0.0007
Fluorene	Hematologic	537		2,546,327		0.0002
Indeno[1,2,3-c,d]pyrene		74.7	36,559		2.0E-09	
Naphthalene	Nervous; Respiratory	2,659	335	493	7.9E-06	5
Pyrene	Urinary	1,168		1,909,745		0.0006
					9E-06	\rightarrow

SSLs calculated using equations in 2002 EPA Supplemental Guidance <u>Guidance Equation Input Assumptions:</u>

5 cars/day (2 tons/car)

5 trucks/day (20 tons/truck)

- 3 meter source depth thickness
- EPC: Exposure Point Concentration

HQ: Hazard Quotient

HI: Hazard Index

Total HI	Cardiovascular	0
	Dermal	0
	Thyroid	0
	Gastrointestinal	0
	Nervous	5
	Developmental	1
	Urinary	0
	Respiratory	5
	Hematologic	0
	Immune	0
	Hepatic	0

Table 14 - Sub-Parcel A11-2 Pooled Soils Construction Worker Risk Ratios

1 Day		Site-Wide EU1 (33.4 ac.)				
			Construction Worker			
			SSLs (mg/kg)		Risk Ratios	
Parameter	Target Organs	EPC (mg/kg)	Cancer	Non-Cancer	Risk	HQ
Arsenic	Cardiovascular; Dermal	9.63	3,782	24,083	2.5E-09	0.0004
Cobalt	Thyroid	10.2	1,122,584	236,599	9.1E-12	0.00004
Iron	Gastrointestinal	132,656		60,135,334		0.002
Manganese	Nervous	16,365		1,038,824		0.02
Thallium	Dermal	13.7		3,436		0.004
Vanadium	Dermal	1,506		399,453		0.004
1,1-Biphenyl	Urinary	26.9	751,692	1,604	3.6E-11	0.02
2-Methylnaphthalene	Respiratory	81.7		254,633		0.0003
Benzene	Immune	78.0	114	1,016	6.8E-07	0.08
Benz[a]anthracene		257	13,143		2.0E-08	
Benzo[a]pyrene	Developmental	212	3,075	169	6.9E-08	1
Benzo[b]fluoranthene		516	29,746		1.7E-08	
Benzo[k]fluoranthene		412	300,384		1.4E-09	
Chrysene		206	1,697,895		1.2E-10	
Dibenz[a,h]anthracene		21.3	4,455		4.8E-09	
Fluoranthene	Hepatic; Urinary	833		2,546,327		0.0003
Fluorene	Hematologic	452		2,546,327		0.0002
Indeno[1,2,3-c,d]pyrene		63.0	36,559		1.7E-09	
Naphthalene	Nervous; Respiratory	2,240	335	493	6.7E-06	5
Pyrene	Urinary	562		1,909,745		0.0003
					7E-06	\rightarrow

SSLs calculated using equations in 2002 EPA Supplemental Guidance <u>Guidance Equation Input Assumptions:</u>

5 cars/day (2 tons/car)

5 trucks/day (20 tons/truck)

3 meter source depth thickness

EPC: Exposure Point Concentration

HQ: Hazard Quotient

HI: Hazard Index

Total HI	Cardiovascular	0
	Dermal	0
	Thyroid	0
	Gastrointestinal	0
	Nervous	5
	Developmental	1
	Urinary	0
	Respiratory	5
	Hematologic	0
	Immune	0
	Hepatic	0

n n n n n n n n

"

"

"

APPENDIX A

11

- " "



February 22, 2021

Maryland Department of Environment 1800 Washington Boulevard Baltimore MD, 21230

Attention: Ms. Barbara Brown

Subject: Request to Enter Temporary CHS Review Tradepoint Atlantic Parcel A11-2

Dear Ms. Brown:

The conduct of any environmental assessment and cleanup activities on the Tradepoint Atlantic property, as well as any associated development, is subject to the requirements outlined in the following agreements:

- Administrative Consent Order (ACO) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the Maryland Department of the Environment (effective September 12, 2014); and
- Settlement Agreement and Covenant Not to Sue (SA) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the United States Environmental Protection Agency (effective November 25, 2014).

On September 11, 2014, Tradepoint Atlantic submitted an application to the Maryland Department of the Environment's (Department) Voluntary Cleanup Program (VCP).

In consultation with the Department, Tradepoint Atlantic affirms that it desires to accelerate the assessment, remediation and redevelopment of certain sub-parcels within the larger site due to current market conditions. To that end, the Department and Tradepoint Atlantic agree that the Controlled Hazardous Substance (CHS) Act (Section 7-222 of the Environment Article) and the CHS Response Plan (COMAR 26.14.02) shall serve as the governing statutory and regulatory authority for completing the development activities on Sub-Parcel A11-2 and complement the statutory requirements of the Voluntary Cleanup Program (Section 7-501 of the Environment Article). Upon submission of a Site Response and Development Work Plan and completion of the remedial activities for the sub-parcel, the Department shall issue a "No Further Action" letter upon a recordation of an environmental covenant describing any necessary land use controls for the specific sub-parcel. At such time that all the sub-parcels within the larger parcel have completed remedial activities, Tradepoint Atlantic shall submit to the Department a request for issuing a Certificate of Completion (COC) as well as all pertinent information concerning completion of remedial activities conducted on the parcel. Once the VCP has completed its review of the



submitted information it shall issue a COC for the entire parcel described in Tradepoint Atlantic's VCP application.

Alternatively, Tradepoint Atlantic or other entity may elect to submit an application for a specific subparcel and submit it to the VCP for review and acceptance. If the application is received after the cleanup and redevelopment activities described in this work plan are implemented and a No Further Action letter is issued by the Department pursuant to the CHS Act, the VCP shall prepare a No Further Requirements Determination for the sub-parcel.

If Tradepoint Atlantic or other entity has not carried out cleanup and redevelopment activities described in the work plan, the cleanup and redevelopment activities may be conducted under the oversight authority of either the VCP or the CHS Act, so long as those activities comport with this work plan.

Engineering and institutional controls approved as part of this Site Response and Development Work Plan shall be described in documentation submitted to the Department demonstrating that the exposure pathways on the sub-parcel are addressed in a manner that protects public health and the environment. This information shall support Tradepoint Atlantic's request for the issuance of a COC for the larger parcel.

Please do not hesitate to contact Tradepoint Atlantic for further information.

Thank you,

Peter Haid

Vice President Environmental TRADEPOINT ATLANTIC 1600 Sparrows Point Boulevard Baltimore, Maryland 21219 T 443.649.5055 C 732.841.7935 phaid@tradepointatlantic.com n n n n n n n n n

"

"

"

APPENDIX B

"

- "

Construction Worker Soil Screening Levels Maximum Allowable Work Day Exposure Calculation Spreadsheet - Sub-Parcel A11-2

Description	Variable	Value
Days worked per week	DW	5
Exposure duration (yr)	ED	1
Hours worked per day	ET	8
A/constant (unitless) - particulate emission factor	Aconst	12.9351
B/constant (unitless) - particulate emission factor	Bconst	5.7383
C/constant (unitless) - particulate emission factor	Cconst	71.7711
Dispersion correction factor (unitless)	FD	0.185
Days per year with at least .01" precipitation	Р	130
Target hazard quotient (unitless)	THQ	1
Body weight (kg)	BW	80
Averaging time - noncancer (yr)	ATnc	1
Soil ingestion rate (mg/d)	IR	330
Skin-soil adherence factor (mg/cm2)	AF	0.3
Skin surface exposed (cm2)	SA	3300
Event frequency (ev/day)	EV	1
Target cancer risk (unitless)	TR	01E-06
Averaging time - cancer (yr)	ATc	70
A/constant (unitless) - volatilization	Aconstv	2.4538
B/constant (unitless) - volatilization	Bconstv	17.566
C/constant (unitless) - volatilization	Cconstv	189.0426
Dry soil bulk density (kg/L)	Pb	1.5
Average source depth (m)	ds	3
Soil particle density (g/cm3)	Ps	2.65
Total soil porosity	Lpore/Lsoil	0.43
Air-filled soil porosity	Lair/Lsoil	0.28

Construction Worker Soil Screening Levels Maximum Allowable Work Day Exposure Calculation Spreadsheet - Sub-Parcel A11-2

alculatio

Area of site (ac)	Ac	33.4
Overall duration of construction (wk/yr)	EW	0.2
Exposure frequency (day/yr)	EF	1
Cars per day	Ca	5
Tons per car	CaT	2
Trucks per day	Tru	5
Tons per truck	TrT	20
Mean vehicle weight (tons)	w	11
Derivation of dispersion factor - particulate emission factor (g/m2-s per kg/m3)	Q/Csr	13.9
Overall duration of construction (hr)	tc	34
Overall duration of traffic (s)	Tt	28,800
Surface area (m2)	AR	135,165
Length (m)	LR	368
Distance traveled (km)	Σνκτ	4
Particulate emission factor (m3/kg)	PEFsc	131,810,239
Derivation of dispersion factor - volatilization (g/m2-s per kg/m3)	Q/Csa	6.98
Total time of construction (s)	Tcv	28,800

Chemical	RfD & RfC Sources	^Ingestion SF (mg/kg-day) ⁻¹	^Inhalation Unit Risk (ug/m ³) ⁻¹	^Subchronic RfD (mg/kg-day)	^Subchronic RfC (mg/m ³)	^GIABS	Dermally Adjusted RfD (mg/kg-day)	^ABS	^RBA	*Dia	*Diw	*Henry's Law Constant (unitless)	*Kd	*Кос	DA	Volatilization Factor - Unlimited Reservoir (m ³ /kg)	Carcinogenic Ingestion/ Dermal SL (SLing/der)	Carcinogenic Inhalation SL (SLinh)	Carcinogenic SL (mg/kg)	Non- Carcinogenic Ingestion/ Dermal SL (SLing/der)	Non- Carcinogenic Inhalation SL (SLinh)	Non- Carcinogenic SL (mg/kg)
Arsenic, Inorganic	I/C	1.50E+00	4.30E-03	3.00E-04	1.50E-05	1	3.00E-04	0.03	0.6			-	2.90E+01				3,788	2,349,594	3,782	24,354	2,164,983	24,083
Cobalt	Р	-	9.00E-03	3.00E-03	2.00E-05	1	3.00E-03	0.01	1			-	4.50E+01					1,122,584	1,122,584	257,723	2,886,644	236,599
Iron	Р	-	-	7.00E-01	-	1	7.00E-01	0.01	1			-	2.50E+01							60,135,334		60,135,334
Manganese (Non-diet)	I	-	-	2.40E-02	5.00E-05	0.04	9.60E-04	0.01	1			-	6.50E+01							1,213,506	7,216,611	1,038,824
Thallium (Soluble Salts)	Р	-	-	4.00E-05	-	1	4.00E-05	0.01	1			-	7.10E+01							3,436		3,436
Vanadium and Compounds	A	-	-	1.00E-02	1.00E-04	0.026	2.60E-04	0.01	1			-	1.00E+03							410,823	14,433,221	399,453
1,1-Biphenyl	Р	8.00E-03	-	1.00E-01	4.00E-03	1	1.00E-01	0.01	1	4.70E-02	7.60E-06	1.30E-02	3.06E+01	5.10E+03	1.07E-06	3.66E+2	751,692		751,692	8,590,762	1,604	1,604
2-Methylnaphthalene	1	-	-	4.00E-03	-	1	4.00E-03	0.13	1	5.20E-02	7.80E-06	2.10E-02	1.50E+01	2.50E+03	3.87E-06	1.92E+2				254,633		254,633
Benzene	Р	5.50E-02	7.80E-06	1.00E-02	8.00E-02	1	1.00E-02	0.01	1	9.00E-02	1.00E-05	2.30E-01	9.00E-01	1.50E+02	1.06E-03	1.16E+1	109,337	114	114	859,076	1,017	1,016
Benz[a]anthracene	1	1.00E-01	6.00E-05	-	-	1		0.13	1	2.60E-02	6.70E-06	4.91E-04	1.08E+03	1.80E+05	6.71E-10	1.46E+4	44,561	18,642	13,143			
Benzo[a]pyrene	1	1.00E+00	6.00E-04	3.00E-04	2.00E-06	1	3.00E-04	0.13	1	4.80E-02	5.60E-06	1.87E-05	3.54E+03	5.90E+05	2.37E-11	7.77E+4	4,456	9,924	3,075	19,097	170	169
Benzo[b]fluoranthene	1	1.00E-01	6.00E-05	-	-	1		0.13	1	4.80E-02	5.60E-06	2.69E-05	3.60E+03	6.00E+05	2.91E-11	7.01E+4	44,561	89,471	29,746			
Benzo[k]fluoranthene	1	1.00E-02	6.00E-06	-	-	1		0.13	1	4.80E-02	5.60E-06	2.39E-05	3.54E+03	5.90E+05	2.74E-11	7.22E+4	445,607	921,711	300,384			
Chrysene	1	1.00E-03	6.00E-07	-	-	1		0.13	1	2.60E-02	6.70E-06	2.10E-04	1.08E+03	1.80E+05	3.10E-10	2.15E+4	4,456,072	2,743,095	1,697,895			
Dibenz[a,h]anthracene	1	1.00E+00	6.00E-04	-	-	1		0.13	1	4.50E-02	5.20E-06	5.76E-06	1.14E+04	1.90E+06	4.13E-12	1.86E+5	4456	16,838,758	4,455			
Fluoranthene	1	-	-	4.00E-02	-	1	4.00E-02	0.13	1	2.80E-02	7.20E-06	3.60E-04	3.30E+02	5.50E+04	1.77E-09	8.98E+3				2,546,327		2,546,327
Fluorene	I	-	-	4.00E-02	-	1	4.00E-02	0.13	1	4.40E-02	7.90E-06	3.90E-03	5.52E+01	9.20E+03	1.67E-07	9.26E+2				2,546,327		2,546,327
Indeno[1,2,3-c,d]pyrene	I.	1.00E-01	6.00E-05	-	-	1		0.13	1	4.50E-02	5.20E-06	1.42E-05	1.20E+04	2.00E+06	5.62E-12	1.60E+5	44,561	203,594	36,559			
Naphthalene	C/I/A	1.20E-01	3.40E-05	2.00E-02	3.00E-03	1	2.00E-02	0.13	1	6.00E-02	8.40E-06	1.80E-02	9.00E+00	1.50E+03	6.35E-06	1.50E+2	37,134	338	335	1,273,163	493	493
Pyrene	1	-	-	3.00E-02	-	1	3.00E-02	0.13	1	2.80E-02	7.20E-06	4.90E-04	3.24E+02	5.40E+04	2.41E-09	7.71E+3				1,909,745		1,909,745

*chemical specific parameters found in Chemical Specific Parameters Spreadsheet at https://www.epa.gov/risk/regional-screening-levels-rsls

^chemical specific parameters found in Unpaved Road Traffic calculator at https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search

I: chemical specific parameters found in the IRIS at https://www.epa.gov/iris

C: chemical specific parameters found in Cal EPA at https://www.dtsc.ca.gov/AssessingRisk

A: chemical specific parameters found in Agency for Toxic Substances and Disease Registry Minimal Risk Levels (MRLs) at https://www.atsdr.cdc.gov/mrls/pdfs/atsdr_mrls.pdf

P: chemical specific parameters found in the Database of EPA PPRTVs at https://hhpprtv.ornl.gov/quickview/pprtv.php

APPENDIX C

<u>Sparrows Point Development - PPE Standard</u> <u>Operational Procedure, Revision 3</u>

Planning, Tracking/Supervision, Enforcement, and Documentation

<u>Planning</u>

- Response and Development Work Plan (RDWP) for each individual redevelopment subparcel identifies and documents site conditions.
- RDWP is reviewed and approved by regulators.
- Contractor HASP to address site-specific conditions and PPE requirements:
 - Contractor H&S professional to sign-off on PPE requirements for site workers;
 - Job Safety Analysis (JSA) to be performed for ground intrusive work.
- Project Environmental Professional (EP) assigned to each construction project monitors project during environmentally sensitive project phases and is available to construction contractor on an as needed basis. EP responsibilities include the following:
 - Dust monitoring
 - Routine ground intrusive breathing space air monitoring
 - Soil tracking
 - Water handling oversight
 - Ground intrusive work observation
 - Notification for unexpected conditions
- Pre-construction meeting identifies EP roles and responsibilities and reviews site conditions.
- Contractor to perform job-site HazCom. HazCom to be addressed in Contractor HASP and include:
 - PPE requirements,
 - Exposure time limits,
 - Identification of chemicals of concern and potential effects of over-exposure (adverse reactions),
 - Methods and routes of potential exposure.
- All personnel that will be performing ground intrusive work within impacted soils shall sign-off on HazCom.
- If, based on a thorough review of Site conditions, it is expected that construction workers will have the potential to encounter materials considered hazardous waste under RCRA or DOT regulations, HAZWOPER-trained personnel will be utilized.

Tracking/Supervision

- Contractor to record any day that there is ground intrusive work and confirm that proper PPE is being worn.
- EP will note ground intrusive work on daily work sheets and perform at least one spot check per day.
- EP will log on daily work sheets PPE compliance for all intrusive work areas at least once per day.

• EP to take example photos of Exclusion Zones/Contamination Reduction Zones periodically.

Work Zones Delineation

- Exclusion Zone The Exclusion Zones will include the areas proposed for excavation or with active trenches, excavations, or ground intrusive work, at a minimum. Personnel working within the exclusion zone will be required to wear Modified Level D PPE as described in this SOP. EP to take example photos of Exclusion Zones/Contamination Reduction Zones periodically. The Exclusion Zones will be identified each work day.
- Contamination Reduction Zone This work zone is located outside of the exclusion zone, but inside of the limits of development (LOD). The Contamination Reduction Zone will be located adjacent to the Exclusion Zone, and all personal decontamination including removal of all disposable PPE/removal of soil from boots will be completed in the Contamination Reduction Zone.

Documentation

- Contractor HASP and HazCom.
- Contractor ground intrusive tracking record.
- HASP and HazCom sign-in sheets.
- EP pre-con memos.
- EP daily work sheets.
- Records documenting intrusive work and proper PPE use to be provided in completion report.

Enforcement

• Non-compliance of PPE requirements will result in disciplinary action up to and including prohibition from working on Sparrows Point.

Unknown and/or Unexpected Conditions

If unknown and/or unexpected conditions are encountered during the project that the EP determines to have a reasonable potential to significantly impact construction worker health and safety, the following will be initiated:

- 1. Job stoppage,
- 2. TPA and MDE notification,
- 3. Re-assessment of conditions.

Work will not continue until EP has cleared the area. If hazardous waste is identified, a HAZWOPER contractor will be brought in to address. The approved contingency plan will be implemented, where appropriate.

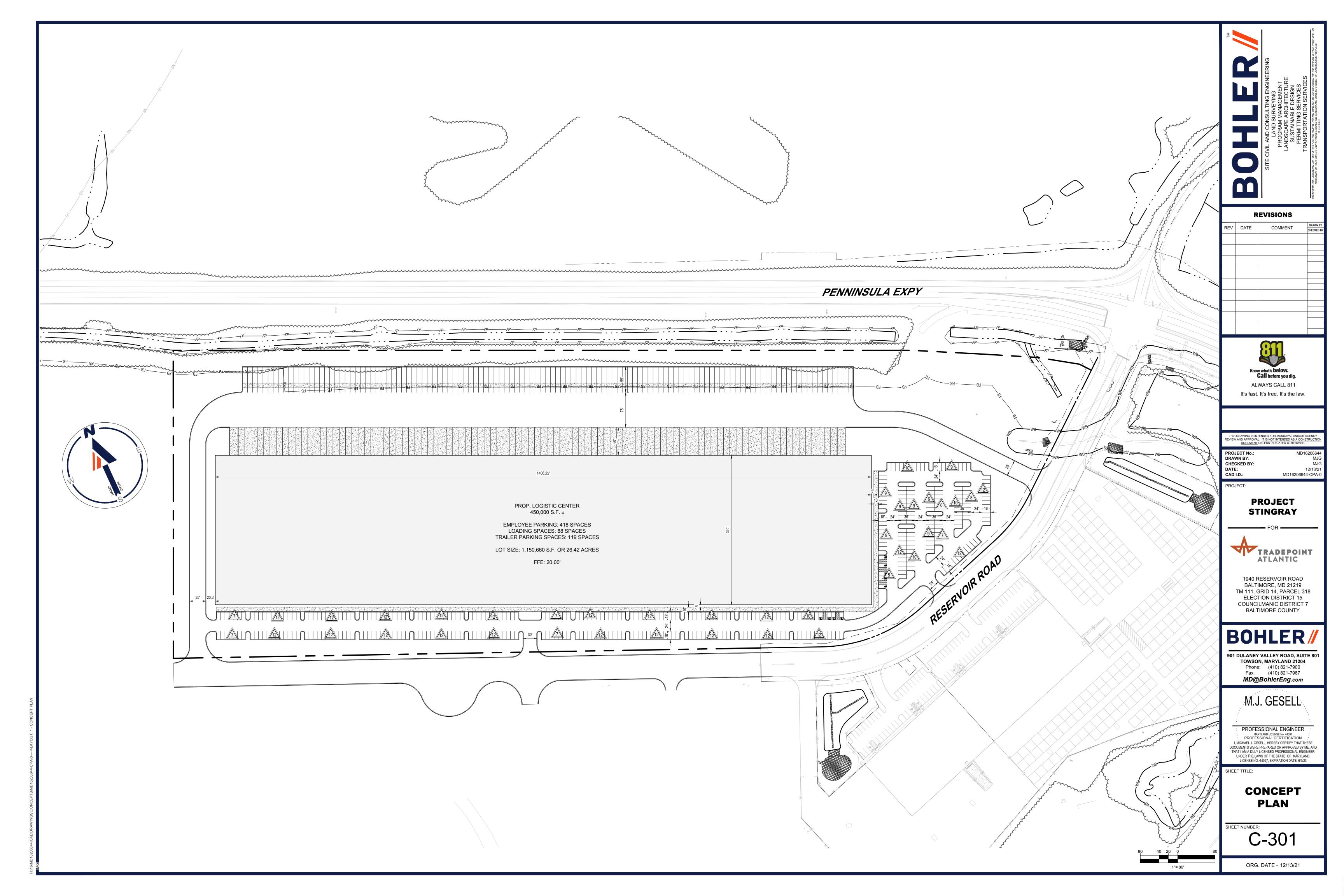
Modified Level D PPE

Modified Level D PPE will include, at a minimum, overalls such as polyethylene-coated Tyvek or clean washable cloth overalls, latex (or similar) disposable gloves (when working in wet/chemical surroundings) or work gloves, steel-toe/steel-shank high ankle work boots with taped chemical-protective over-boots (as necessary), dust mask, hard hat, safety glasses with

side shields, and hearing protection (as necessary). If chemical-protective over-boots create increased slip/trip/fall hazardous, then standard leather or rubber work boots could be used, but visible soils from the sides and bottoms of the boots must be removed upon exiting the Exclusion Zone.

SP Development PPE Procedure 4-3-19

APPENDIX D



STANDAR	STANDARD ABBREVIATIONS			
LIMIT OF WORK		LOW-LOW-	F	OR ENTIRE PLAN SET
LIMIT OF DISTUR	BANCE	LOD-LOD-	AC	ACRES
			ADA	AMERICANS WITH DISABILITY ACT
EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE	ARCH	ARCHITECTURAL
	LINE / R.O.W. LINE		BC	BOTTOM OF CURB
	NEIGHBORING PROPERTY LINE /		BF	BASEMENT FLOOR
	EASEMENT		BK	BLOCK
	LINE		BL BLDG	BASELINE BUILDING
	SETBACK LINE		BLDG	BUILDING BENCHMARK
			BRL	BUILDING RESTRICTION LINE
			CF	CUBIC FEET
		CURB AND GUTTER	CL	CENTERLINE
		SPILL TRANSITION	CMP CONN	
	CONCRETE CURB & GUTTER		CONC	CONNECTION CONCRETE
		DEPRESSED CURB AND GUTTER	CPP	CORRUGATED PLASTIC PIPE
			CY	CUBIC YARDS
	UTILITY POLE WITH LIGHT		DEC	DECORATIVE
	POLE		DEP	
			DIP DOM	DUCTILE IRON PIPE
₽€	TRAFFIC LIGHT		ELEC	ELECTRIC
0	UTILITY POLE	0	ELEV	ELEVATION
\square			EP	EDGE OF PAVEMENT
۵ ۵	TYPICAL LIGHT	b	ES	EDGE OF SHOULDER
¢	ACORN LIGHT	¢	EW	
	TYPICAL		EX FES	EXISTING FLARED END SECTION
	SIGN		FES FF	FINISHED FLOOR
\wedge	PARKING		FH	FIRE HYDRANT
	COUNTS		FG	FINISHED GRADE
			G	GRADE
	CONTOUR	190	GF GH	GARAGE FLOOR (AT DOOR)
169	LINE		GH	GRADE HIGHER SIDE OF WALL
TC 516.4 OR 516.4	SPOT ELEVATIONS	TC 516.00 TC 516.00 MATCH EX BC 515.55 (518.02 ±)	GRT	GRATE
		1 <u> </u>	GV	GATE VALVE
SAN		SAN	HDPE	HIGH DENSITY POLYETHYLENE PIPE
#	SANITARY LABEL	#	HP	HIGH POINT
X #	STORM	X #	HOR	HORIZONTAL
	LABEL SANITARY SEWER	Ť	HW	HEADWALL
SL	LATERAL	SL		
	UNDERGROUND WATER LINE	W	LF	INVERT LINEAR FOOT
Γ.	UNDERGROUND	r	LOC	LIMITS OF CLEARING
Ζ	ELECTRIC LINE	L	LOD	LIMITS OF DISTURBANCE
<i>G</i>	UNDERGROUND GAS LINE	GGG	LOS	LINE OF SIGHT
	OVERHEAD	Он	LP L/S	LOW POINT LANDSCAPE
0,7	WIRE		MAX	MAXIMUM
Γ	UNDERGROUND TELEPHONE LINE	T	MIN	MINIMUM
C	UNDERGROUND	C	МН	MANHOLE
	CABLE LINE		MJ	MECHANICAL JOINT
= = = = = = = = = = = = = = = = = = = =	STORM SEWER		OC	
<i>S</i>	SANITARY	\$	PA PC	POINT OF ANALYSIS POINT CURVATURE
	SEWER MAIN			POINT OF COMPOUND
V	HYDRANT	<u>۷</u>	PCCR	
(S)	SANITARY MANHOLE		PI POG	POINT OF INTERSECTION POINT OF GRADE
	STORM		POG PROP	POINT OF GRADE PROPOSED
(\mathbb{D})	MANHOLE		PT	POINT OF TANGENCY
⊗ ^{WM}	WATER METER	•	PTCR	POINT OF TANGENCY,
WV	WATER	•	PVC	CURB RETURN POLYVINYL CHLORIDE PIPE
\bowtie	VATER VALVE		PVI	POINT OF VERTICAL
	GAS VALVE		PVI	INTERSECTION POINT OF VERTICAL TANGENCY
\square	GAS		R PVT	POINT OF VERTICAL TANGENCY RADIUS
\boxtimes	METER		RCP	REINFORCED CONCRETE PIPE
	TYPICAL END SECTION		RET WALL	RETAINING WALL
or I	HEADWALL OR		R/W	RIGHT OF WAY
	ENDWALL		S SAN	SLOPE SANITARY SEWER
	GRATE INLET		SAN	SQUARE FEET
	CURB	D	STA	STATION
	INLET		STM	STORM
0	CLEAN OUT	0	S/W	SIDEWALK
Ē		E	TBR TBRL	TO BE REMOVED TO BE RELOCATED
<u> </u>	TELEPHONE		TC	TO BE RELOCATED
(I)	MANHOLE	D	TELE	TELEPHONE
EB	ELECTRIC BOX	EB	TPF	TREE PROTECTION FENCE
	ELECTRIC		TW	
EP	PEDESTAL	EP	TYP UG	TYPICAL UNDERGROUND
			UG UP	UNDERGROUND UTILITY POLE
(\land)	MONITORING		W	WIDE
	WELL		W/L	WATER LINE
	TEST PIT		W/M	WATER METER
	BENCHMARK	\bullet	• ±	PLUS OR MINUS DEGREE
\sim			Ø	DIAMETER
	BORING	· · · · · · · · · · · · · · · · · · ·		

OWNERS TPA PROPERTIES 4, LLC.

TPA PROPERTIES 6, LLC. **TPA PROPERTIES 23, LLC** 1600 SPARROWS POINT BLVD BALTIMORE, MD 21219 CONTACT: MIKE HURWITZ PHONE: 410-935-4443

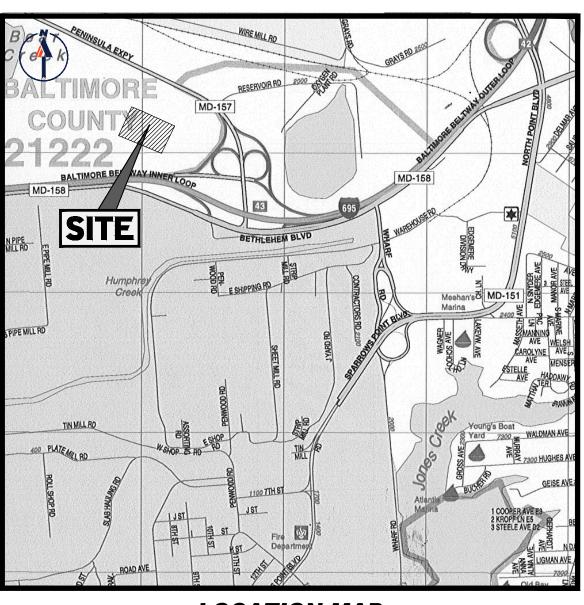
THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR'S ON THE PROJECT ENGINEER SHALL CONSTITUTE

CONSTRUCTION DOCUMENTS

- FOR -DEPOINT R ATLANTIC

PROJECT STINGRAY JR.

LOCATION OF SITE **1940 RESERVOIR ROAD BALTIMORE, MD 21219 15TH ELECTION DISTRICT 7TH COUNCILMANIC DISTRICT TAX MAP 111, GRID 14, PARCEL 318 BALTIMORE COUNTY**



LOCATION MAP COPYRIGHT ADC THE MAP PEOPLE PERMIT USE NO. 20602153-5 SCALE: 1"=2000'





IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJEC WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND

CONTACT: MICHAEL J. GESELL, P.E.

REFERENCES EXISTING CONDITIONS CAD FILES PROVIDED BY TRADEPOINT ATLANTIC ENTITLED: "BASE - UTILITIES", "BASE - TOPO", "BASE - PLANOMETRICS" RECEIVED: 5/27/16 GOTECHNICAL REPORT ENTITLED: "GEOTECHNICAL ENGINEERING STUDY; TPA A-11 BUILDING 1; TRADEPOINT ATLANTIC; BALTIMORE COUNTY, MARYLAND; HILLIS-CARNES ENGINEERING ASSOCIATES DITE: 3/27/2 REPARED BY; HILLIS-CARNES ENGINEERING ASSOCIATES DATE: 3/27/2 REPARED BY; HILLIS-CARNES ENGINEERING MOAD; FROM PENINSULA EXPRESSIVALY (MD 157) TO 1,190' WESTERLY" PREPARED BY: MORRIS AND RITCHIE ASSOCIATES, INC. DATE: 8/25/2 MOLECENCIC REPARED BY: MORRIS AND RITCHIE ASSOCIATES, INC. DATE: 8/25/2 MOLECUNITY DEPARTMENT OF PUBLIC WORKS 111 WEST CHESAPEAKE AVENUE TOWSON, MD 21202 CONTACT: D'ANDREA WALKER PHONE: (410) 887-3306 ESA AND ELECTRIC: 302 MOLECUNITS T. ROOM 401 304 TIMORE, MD 21202 PHONE: (410) 850-4620 DALE! DOMCAST BUSINESS SERVICES 300 METRO DRIVE 304 TIMORE, MD 21215 31-ONE: (800) 391-3000 TELEPHONE WEIZON 305 SHAWAN ROAD COCKEYSVILLE, MD 21030 PHONE: (410) 393-5793	<section-header><text><text><text><text><text></text></text></text></text></text></section-header>	<section-header></section-header>
S		811 .
SHEET TITL	E SHEET NUMBER	Know what's below.
COVER SHEET GENERAL NOTES	C-101 C-102	Call before you dig. ALWAYS CALL 811
SITE PLAN	C-301	It's fast. It's free. It's the law.
GRADING PLAN	C-401	
STORM PIPE SCHEDULE STORM STRUCTURE SCHEDULE	C-403 C-404	
UTILITY PLAN	C-501	THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY
STORMDRAIN PROFILES	C-801 C-802	REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.
SANITARY SEWER PROFILE WATERLINE PROFILES	C-802 C-803 - C-804	PROJECT No.: MDA220065.00 DRAWN BY: DMD CHECKED BY: MJG
		<section-header><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></section-header>
	ELEVATIONS BASED ON NAVD 88, COORDINATES AND MERIDIAN ARE BASED ON THE MARYLAND COORDINATE SYSTEM (MCS)	SHEET NUMBER:
	PER MONUMENTS BCO #1433 AND GIS 2 TRACKING # DRC-XXX-XXXX; DRC# XXXXXXX; DIST XX	ORG. DATE - 4/25/22

GENERAL NOTES

(Rev. 2/2021)

DEMOLITION NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS THE GENERAL NOTES ARE REFERENCED HEREIN AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES. IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND ALL OTHER AD JACENT FACILITIES, THE CONTRACTOR MUST OBTAIN ALL APPLICABLE PERMITS FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY(IES) PRIOR TO THE
- WHEN DEMOLITION-RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY RIGHT-OF-WAY. THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FEDERAL
- REGULATIONS. THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION AND TO IDENTIFY ONLY CONDITIONS REGARDING ITEMS TO BE DEMOLISHED. REMOVED. AND/OR TO REMAIN. A. THE CONTRACTOR MUST ALSO REVIEW ALL CONSTRUCTION DOCUMENTS AND INCLUDE WITHIN THE DEMOLITION ACTIVITIES
- ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS. B. THIS PLAN IS NOT INTENDED TO AND DOES NOT PROVIDE DIRECTION REGARDING THE MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE EMPLOYED TO ACCOMPLISH THE WORK. ALL MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCORDANCE AND CONFORMANCE WITH ALL STATE
- SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE FOR THE CONTRACTOR AND THE PUBLIC. 5. THE CONTRACTOR MUST PROVIDE ALL "METHODS AND MEANS" NECESSARY TO PREVENT MOVEMENT. SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE CONTRACTOR, AT THE CONTRACTOR'S SOLE COST, MUST REPAIR ALL DAMAGE TO ALL ITEMS AND FEATURES THAT ARE TO REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIRS MUST INCLUDE THE
- PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE 3. ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. THE CONTRACTOR MUST
- THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NECESSARY SAFETY FEATURES AND ITEMS
- ALL UNAUTHORIZED PERSONS AT ANY TIME, TO OR NEAR THE DEMOLITION AREA. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, THE CONTRACTOR MUST, IN WRITING, QUESTIONS REGARDING THE APPLICABLE SAFETY STANDARDS, AND/OR THE SAFETY OF THE CONTRACTOR AND/OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, ANY SUCH CONCERNS MUST BE CONVEYED TO THE ENGINEER OF RECORD AND BOHLER . IN WRITING AND MUST ADDRESS ALL ISSUES AND ITEMS RESPONDED TO. BY THE ENGINEER OF RECORD AND BY BOHLER, IN WRITING. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF
- STATUTES, ORDINANCES AND CODES. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AND/OR DISCONNECTION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES
- COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. PRIOR TO COMMENCING ANY DEMOLITION. THE CONTRACTOR MUST: A. OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND ALL PUBLIC
- LEAST 72 BUSINESS HOURS PRIOR TO THE COMMENCEMENT OF WORK. SAID CONTROLS UNTIL SITE IS STABILIZED
- UTILITY MARK OUT. IN ADVANCE OF ANY EXCAVATION.
- ACTIVITIES. THE CONTRACTOR MUST USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL UNDERGROUND UTILITIES
- DEMOLITION ACTIVITIES G. ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS REGARDING THE OF ABANDONMENT, THE CONTRACTOR MUST PROVIDE THE UTILITY ENGINEER AND OWNER WITH IMMEDIATE WRITTEN
- WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS H. ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS NECESSARY OR AS REQUIRED TO MINIMIZE THE IMPACT ON, OF, AND TO THE AFFECTED
- IMMEDIATELY CEASE ALL WORK IN THE AREA OF DISCOVERY. AND IMMEDIATELY NOTIFY, IN WRITING AND VERBALLY, THE OWNER AND ENGINEER OF RECORD AND BOHLER, THE DISCOVERY OF SUCH MATERIALS TO PURSUE PROPER AND COMPLIANT REMOVAL OF SAME.
- OOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE, UNLESS SAME IS IN STRICT ACCORDANCE AND STRUCTURAL OR GEOTECHNICAL ENGINEER. 2 DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE OR INCLUDE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE WITHOUT SPECIFIC WRITTEN PERMISSION AND AUTHORITY OF AND FROM THE OWNER AND ALL GOVERNMENTAL AGENCIES
- WITH JURISDICTION. 3. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILI MUST BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS AND MUST BE SUFFICIENTLY COMPACTED TO SUPPORT ALL IN THE GEOTECHNICAL REPORT BACKEILLING MUST OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES AND MUST BE PERFORMED SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES MUST BE GRADED TO PROMOTE
- RESULTS TO THE ENGINEER OF RECORD AND THE OWNER. . EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FROM BOTH THE OWNER AND ALL APPLICABLE, NECESSARY AND REQUIRED GOVERNMENTAL AUTHORITIES. PRIOR TO COMMENCING ANY EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION ACTIVITIES. THE CONTRACTOR MUST ENSURE AND OVERSEE THE INSTALLATION OF ALL OF THE REQUIRED PERMIT
- ALSO RESPONSIBLE TO CONDUCT AND PERFORM ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES AND THE LIKE. TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR. AFTER THE DEMOLITION IS COMPLETE, THE
- CONTRACTOR MUST CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS TO REMOVE ALL DUST AND DEBRIS WHICH THE DEMOLITION OPERATIONS CAUSE. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION AT CONTRACTOR'S SOLE COST PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES. ALL DEBRIS FROM REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS OUTSIDE OF APPROVED AREAS WILL NOT BE PERMITTED,
- INCLUDING BUT NOT LIMITED TO. THE PUBLIC RIGHT-OF-WAY CAPPED, ABANDONED IN PLACE, OR RELOCATED DUE TO DEMOLITION ACTIVITIES, THIS RECORD DOCUMENT MUST BE
- WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST. 18. THE CONTRACTOR MUST EMPTY, CLEAN AND REMOVE FROM THE SITE ALL UNDERGROUND STORAGE TANKS, IF ENCOUNTERED, IN ACCORDANCE WITH FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, PRIOR TO CONTINUING CONSTRUCTION IN THE AREA AROUND THE TANK WHICH EMPTYING, CLEANING AND REMOVAL ARE AT THE CONTRACTOR'S SOLE COST.

THE CONTRACTOR MUST STRICTLY COMPLY WITH THESE NOTES AND ALL SPECIFICATIONS/REPORTS CONTAINED HEREIN. THE CONTRACTOR MUST ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS, THESE NOTES, AND THE REQUIREMENTS ARTICULATED IN THE NOTES CONTAINED IN ALL THE OTHER DRAWINGS THAT COMPRISE THE PLAN SET OF DRAWINGS. ADDITIONAL NOTES AND SPECIFIC PLAN NOTES MAY BE FOUND ON THE INDIVIDUAL PLANS. THESE GENERAL NOTES APPLY TO THIS ENTIRE DOCUMENT PACKAGE IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE. PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST CONFIRM WITH THE ENGINEER OF RECORD AND BOHLER THAT THE LATEST EDITION OF THE DOCUMENTS AND/OR REPORTS REFERENCED WITHIN THE PLAN REFERENCES ARE BEING USED FOR CONSTRUCTION. THIS IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION IS TO BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE

(HEREIN "BOHLER") PRIOR TO THE DATE ON WHICH THE ENGINEER OF RECORD AND BOHLER PREPARED THESE PLANS. THE CONTRACTOR MUST

FIELD VERIFY ALL EXISTING CONDITIONS AND IMMEDIATELY NOTIFY BOHLER. IN WRITING, IF ANY ACTUAL SITE CONDITIONS DIFFER FROM THOSE

THESE PLANS ARE SOLELY BASED ON INFORMATION THE OWNER AND OTHERS PROVIDED TO BOHLER ENGINEERING. VA. LLC

SHOWN ON THESE PLANS, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.

- CONDITIONS OF APPROVAL TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES AND HAS ALSO CONFIRMED THAT ALL NECESSARY AND REQUIRED PERMITS HAVE BEEN OBTAINED. THE CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND PPROVALS ON SITE AT ALL TIMES. THE CONTRACTOR MUST ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THESE PLANS. SPECIFICATIONS/REPORTS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS. RULES. REGULATIONS. STATUTORY REQUIREMENTS. CODES, LAWS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT, AND ALL PROVISIONS IN AND CONDITIONS OF THE
- CONSTRUCTION CONTRACT WITH THE OWNER/DEVELOPER INCLUDING ALL EXHIBITS, ATTACHMENTS AND ADDENDA TO SAME PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFULLY REVIEWING THE MOST CURRENT ARCHITECTURAL, CIVIL AND STRUCTURAL CONSTRUCTION DOCUMENTS (INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL PLUMBING AND FIRE SUPPRESSION PLANS WHERE APPLICABLE) THE CONTRACTOR MUST IMMEDIATELY NOTICY OWNER ARCHITECT AND ENGINEER OF RECORD AND BOHLER. IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST BETWEEN THESE PLANS
- AND ANY OTHER PLANS THAT COMPRISE THE CONSTRUCTION DOCUMENTS. CONTRACTOR MUST REFER TO AND ENSURE COMPLIANCE WITH THE APPROVED ARCHITECTURAL/BUILDING PLANS OF RECORD FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THESE PLANS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR MUST IMMEDIATELY NOTIFY ENGINEER OF RECORD AND BOHLER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE RE-DONE OR REPAIRED DUE TO DIMENSIONS. MEASUREMENTS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO BOTH (A) THE CONTRACTOR GIVING ENGINEER OF RECORD AND BOHLER WRITTEN NOTIFICATION OF SAME AND (B)
- ENGINEER OF RECORD AND BOHLER, THEREAFTER, PROVIDING THE CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND MEASUREMENTS INCLUDED ON DESIGN DOCUMENTS HEREIN AND MUST NOT SCALE OFF THE DRAWINGS DUE TO POTENTIAL PRINTING INACCURACIES. ALL DIMENSIONS AND MEASUREMENTS ARE TO BE CHECKED AND CONFIRMED BY THE GENERAL CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS. FABRICATION/ORDERING OF PARTS AND MATERIALS AND COMMENCEMENT OF SITE WORK. SITE PLAN DRAWINGS ARE NOT INTENDED AS SURVEY DOCUMENTS. DIMENSIONS SUPERSEDE GRAPHICAL REPRESENTATIONS. THE
- CONTRACTOR MUST MAKE CONTRACTOR'S OWN MEASUREMENTS FOR LAYOUT OF IMPROVEMENTS THE OWNER AND CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY WHEN INCLUDED AS ONE OF THE REFERENCED DOCUMENTS, THE GEOTECHNICAL REPORT, SPECIFICATIONS AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT. DISCREPANCY OR AMBIGUITY. THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN: (Å) THE PLANS; AND (B) THE GEOTECHNICAL REPORT AND RECOMMENDATIONS, MUST TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE
- ENGINEER OF RECORD AND BOHLER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORT AND PLANS AND SPECIFICATIONS, PRIOR TO PROCEEDING WITH ANY FURTHER WORK. IF A GEOTECHNICAL REPORT WAS NOT CREATED, THEN THE CONTRACTOR MUST FOLLOW AND COMPLY WITH ALL OF THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE SPECIFICATIONS WHICH HAVE JURISDICTION OVER THIS PROJECT. ENGINEER OF RECORD AND BOHLER ARE NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, HAS NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN AND WHERE SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES. ALL OF THIS WORK IS TO BE PERFORMED AT CONTRACTOR'S SOLE COST AND EXPENSE. THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC.
- WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF THE PROJECT OR AS PART OF THE FINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT
- DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION AND CONSTRUCTION WASTES, UNSUITABLE EXCAVATED MATERIAL, EXCESS SOIL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER THE CONTRACTOR. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN RECORDS TO DEMONSTRATE PROPER AND FULLY COMPLIANT DISPOSAL ACTIVITIES TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST.
- THE CONTRACTOR MUST REPAIR, AT CONTRACTOR'S SOLE COST, ALL DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC, AND MUST BEAR ALL COSTS ASSOCIATED WITH SAME TO INCLUDE. BUT NOT BE LIMITED TO, REDESIGN, RE-SURVEY, RE-PERMITTING AND CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR AND MUST REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION AND MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION, AND IN CONFORMANCE WITH APPLICABLE CODES, LAWS, RULES, REGULATIONS, STATUTORY REQUIREMENTS AND STATUTES. THE CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE CONTRACTOR MUST, PROMPTLY, DOCUMENT ALL EXISTING DAMAGE AND NOTIFY. IN WRITING, THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE
- START OF CONSTRUCTION. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL, LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME. THE ENGINEER OF RECORD AND BOHLER HAVE NOT BEEN RETAINED TO PERFORM OR TO BE RESPONSIBLE FOR JOB SITE SAFETY. SAME BEING WHOLLY OUTSIDE OF ENGINEER OF RECORD'S AND BOHLER SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES OR ANY JOB SITE CONDITIONS AT ANY TIME THE CONTRACTOR MUST IMMEDIATELY IDENTIFY IN WRITING, TO THE ENGINEER OF RECORD AND BOHLER . ANY DISCREPANCIES THAT MAY OR
- COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER WRITTEN NOTIFICATION AS DESCRIBED ABOVE, IT WILL BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, THE CONTRACTOR MUST INDEMNIFY, DEFEND AND HOLD HARMLESS THE ENGINEER OF RECORD AND BOHLER FOR ANY AND ALL DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM OR ARE IN ANY WAY RELATED TO SAME INCLUDING, BUT NOT LIMITED TO, ANY THIRD PARTY AND FIRST PARTY CLAIMS THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO
- BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS, AND CURRENT CODES, RULES, STATUTES AND THE LIKE. IF THE CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, RULES, STATUTES, CODES AND THE LIKE, THE CONTRACTOR AND/OR OWNER AGREE TO AND MUST JOINTLY, INDEPENDENTLY, SEPARATELY, AND SEVERALLY INDEMNIFY AND HOLD THE ENGINEER OF RECORD AND BOHLER HARMLESS FOR AND FROM ALL INJURIES. CLAIMS AND DAMAGES THAT ENGINEER AND BOHLER SUFFER AND ANY AND ALL COSTS THAT ENGINEER AND BOHLER INCUR AS RELATED TO SAME. ALL CONTRACTORS MUST CARRY AT LEAST THE MINIMUM AMOUNT OF THE SPECIFIED AND COMMERCIALLY REASONABLE STATUTORY WORKER'S
- COMPENSATION INSURANCE. EMPLOYER'S LIABILITY INSURANCE AND COMMERCIAL GENERAL LIABILITY INSURANCE (CGL) INCLUDING ALSO ALL HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER, A LESENT AND FUTURE DWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFEILIATES SUBSIDIARIES AND RELATED ENTITIES AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSUREDS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE (DEFEND, IF APPLICABLE) AND HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED AND AGREED TO BY THE CONTRACTOR HEREIN. ALL CONTRACTORS MUST FURNISH BOHLER WITH CERTIFICATIONS OF INSURANCE OR CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE COVERAGES PRIOR TO COMMENCING ANY WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR TWO YEARS AFTER THE COMPLETION OF CONSTRUCTION AND AFTER ALL PERMITS ARE ISSUED, WHICHEVER DATE IS LATER. IN ADDITION, ALL CONTRACTORS AGREE THAT THEY WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW. INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS,
- PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR(S), ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PROJECT. THE CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO ANY TERMINATION. SUSPENSION OR CHANGE OF ITS INSURANCE HEREUNDER. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON
- THESE PLANS, AND FOR ANY CONFLICTS IN SCOPE AND REVISIONS THAT RESULT FROM SAME. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR COMPLETION OF THE WORK, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER, NOR THE PRESENCE OF BOHLER AND/OR ITS PAST, PRESENT AND FUTURE OWNERS. OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE (HEREIN "BOHLER PARTIES"), RELIEVES OR WILL RELIEVE THE CONTRACTOR OF AND FROM CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ALL HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER PARTIES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER (OR ANY RESPONSIBILITY FOR) ANY CONSTRUCTION. THE CONTRACTOR OR ITS EMPLOYEES RELATING TO THEIR WORK AND ANY AND ALL HEALTH AND SAFETY PROGRAMS OR PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR MUST INDEMNIFY DEFEND, PROTECT AND HOLD HARMLESS BOHLER PARTIES FOR AND FROM ANY LIABILITY TO BOHLER PARTIES RESULTING FROM THE
- CONTRACTOR'S WORK. SERVICES AND/OR VIOLATIONS OF THIS NOTE. THESE NOTES OR ANY NOTES IN THE PLAN SET AND, FURTHER. THE CONTRACTOR MUST NAME BOHLER AS AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE WHEN IT IS CLEARLY AND SPECIFICALLY WITHIN BOHLER'S SCOPE OF SERVICES CONTRACT WITH THE OWNER/DEVELOPER, BOHLER WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA. WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF EVALUATING CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE
- RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME. BOHLER WILL PERFORM ITS SHOP DRAWING REVIEW WITH REASONABLE PROMPTNESS, AS CONDITIONS PERMIT, ANY DOCUMENT, DOCUMENTING BOHLER'S REVIEW OF A SPECIFIC ITEM OR LIMITED SCOPE, MUST NOT INDICATE THAT BOHLER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT, BOHLER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR MUST, IN WRITING, PROMPTLY AND IMMEDIATELY BRING ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS TO BOHLER'S ATTENTION. BOHLER IS NOT REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED. . IF THE CONTRACTOR DEVIATES FROM THESE PLANS AND/OR SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST
- OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD AND BOHLER FOR ALL DEVIATIONS WITHIN ENGINEER'S SCOPE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK PERFORMED WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING HEREFROM AND, FURTHER, MUST DEFEND, INDEMNIFY, PROTECT, AND HOLD HARMLESS THE ENGINEER OF RECORD AND BOHLER PARTIES TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS, CLAIMS, INJURIES, PENALTIES AND THE LIKE RELATED TO SAME.
- THE CONTRACTOR IS RESPONSIBLE FOR A MAINTAINING AND PROTECTING THE TRAFFIC CONTROL PLAN AND FLEMENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS, FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE RIGHT OF WAY OR ON SITE, THE COST FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE AND IS THE CONTRACTOR'S SOLE RESPONSIBILITY. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS N STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN; AND, FURTHER, THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIEY AND HOLD THE ENGINEER OF RECORD AND BOHLER PARTIES. HARMLESS FOR ALL INJURIES. DAMAGES AND COSTS THAT ENGINEER OF RECORD
- AND BOHLER INCUR AS A RESULT OF SAID FAILURE OR FAILURE TO PRESERVE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES AND MATERIALS COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS, LAWS, ORDINANCES, AND CODES, AND ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 ET SEQ.) AS AMENDED, AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME THE CONTRACTOR MUST STRICTLY COMPLY WITH THE LATEST AND CURRENT OSHA STANDARDS AND REGULATIONS. AND/OR ANY OTHER AGENCY
- WITH JURISDICTION OVER EXCAVATION AND TRENCHING PROCEDURES. ENGINEER OF RECORD AND BOHLER HAS NO RESPONSIBILITY FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES AND WORK. THE CONTRACTOR AND THE OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF THE CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY, INDEPENDENTLY, SEPARATELY, COLLECTIVELY, AND SEVERALLY INDEMNIFY, DEFEND, PROTECT AND HOLD ENGINEER OF RECORD AND BOHLER PARTIES HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS OR LOCAL GOVERNING AGENCY FOR SITES WHERE ONE (1) ACRE OR MORE IS DISTURBED BY CONSTRUCTION ACTIVITIES (UNLESS THE LOCAL JURISDICTION REQUIRES A DIFFERENT THRESHOLD). THE CONTRACTOR MUST ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF ALL SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED TO LOGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES, AS APPROPRIATE AND FURTHER THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR FAILING TO DO SO. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED DOCUMENTS PREPARED BY THE ENGINEER OF RECORD AND BOHLER, THE USE OF THE WORDS 'CERTIFY' OR 'CERTIFICATION' CONSTITUTE(S) AN EXPRESSION ONLY OF PROFESSIONAL OPINION REGARDING THE INFORMATION WHICH IS
- THE SUBJECT OF THE ENGINEER OF RECORD'S AND BOHLER KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON AND ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE OF ANY NATURE OR TYPE FITHER EXPRESSED OR IMPLIED UNDER ANY CIRCUMSTANCES

(Rev. 2/2021) COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR AD IACENT TO THE RIGHT-OF-WAY

HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE FEDERAL, STATE, AND LOCAL

- FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS, THE CONTRACTOR MUST COMPLY WITH ALL OSHA AND OTHER
- RESTORATION OF ALL ITEMS AND FEATURES REPAIRED TO THEIR PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, COMPLYING WITH ALL OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY AND SAFETY TO ALL PROPERTY ON THE SITE OR ADJACENT OR NEAR TO THE SAME.
- NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS AND/OR SPECIFICATIONS, ALL CONCERNS OR
- THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, AND SERVICES HAVE BEEN TERMINATED. REMOVED AND/OR ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY
- AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT. SITE WORK, AND DEMOLITION WORK B. NOTIFY, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION JURISDICTION, AT
- . INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE, AND MAINTAIN D. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR MUST CALL THE STATE ONE-CALL DAMAGE PROTECTION SYSTEM FOR
- E. LOCATE AND PROTECT ALL UTILITIES AND SERVICES. INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER. TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC, WITHIN AND ADJACENT TO THE LIMITS OF PROJECT PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ANY
- METHODS AND MEANS TO CONSTRUCT SAME. THESE ARE NOT THE ENGINEER OF RECORD'S RESPONSIBILITY. IN THE EVENT NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE
- PARTIES. WORK REQUIRED TO BE PERFORMED "OFF-PEAK" IS TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL, THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS OR THE CONTRACT WITH THE OWNER/DEVELOPER, THE CONTRACTOR MUST
- THE CONTRACTOR MUST NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, OR PURSUANT TO THE WRITTEN DIRECTION OF THE OWNER'S

- NEW IMPROVEMENTS AND MUST BE PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS AND GUIDANCE ARTICULATED POSITIVE DRAINAGE. THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION TESTING AND MUST SUBMIT SUCH REPORTS AND
- AND EXPLOSIVE CONTROL MEASURES THAT THE FEDERAL. STATE, AND LOCAL GOVERNMENTS REQUIRE, THE CONTRACTOR IS
- 17 THE CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS WHICH INDICATES THE LOCATION OF EXISTING UTILITIES THAT ARE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE

SITE LAYOUT NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS THE GENERAL NOTES ARE REFERENCED HEREIN AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES. IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- PRIOR TO THE COMMENCEMENT OF GENERAL CONSTRUCTION, THE CONTRACTOR MUST INSTALL SOIL EROSION CONTROL AND ANY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES NECESSARY, AS INDICATED ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN AND IN ACCORDANCE WITH APPLICABLE AND/OR APPROPRIATE AGENCIES' GUIDELINES TO PREVENT SEDIMENT AND/OR LOOSE DEBRIS FROM WASHING ONTO AD JACENT PROPERTIES OR THE RIGHT OF WAY 3. ALL DIRECTIONAL/TRAFFIC SIGNING AND PAVEMENT STRIPING MUST CONFORM TO THE LATEST STANDARDS OF THE MANUAL ON
- UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY APPLICABLE STATE OR LOCALLY APPROVED SUPPLEMENTS. GUIDELINES, RULES, REGULATIONS, STANDARDS AND THE LIKE. THE LOCATIONS OF PROPOSED UTILITY POLES AND TRAFFIC SIGNS SHOWN ON THE PLANS ARE SCHEMATIC AND PRELIMINARY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FIELD-VERIFYING THEIR LOCATION. THE CONTRACTOR MUST COORDINATE THE
- RELOCATION OF TRAFFIC SIGNS WITH THE ENTITY WITH JURISDICTION OVER THE PROJECT ALL DIMENSIONS SHOWN ARE TO BOTTOM FACE OF CURB. EDGE OF PAVEMENT, OR EDGE OF BUILDING. EXCEPT WHEN DIMENSION IS TO A PROPERTY LINE, STAKE OUT OF LOCATIONS OF INLETS, LIGHT POLES, ETC. MUST BE PERFORMED IN STRICT ACCORDANCE WITH THE DETAILS, UNLESS NOTED CLEARLY OTHERWISE.

GRADING NOTES

- 1 THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AS REFERENCED IN THIS PLAN SET. IF NO GEOTECHNICAL REPORT HAS BEEN REFERENCED, THE CONTRACTOR MUST HAVE A GEOTECHNICAL ENGINEER PROVIDE WRITTEN SPECIFICATIONS AND RECOMMENDATIONS PRIOR TO THE CONTRACTOR COMMENCING THE GRADING WORK. THE CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, WHICH HAVE JURISDICTION OVER THIS PROJECT
- THE CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. THE CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO THE ENGINEER OF RECORD AND THE OWNER PRIOR TO THE CONTRACTOR COMMENCING ANY WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. SHOULD DISCREPANCIES BETWEEN THE PLANS AND INFORMATION
- OBTAINED THROUGH FIELD VERIFICATIONS BE IDENTIFIED OR EXIST, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD IN WRITING THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR MUST COMPACT ALL EXCAVATED OR FILLED AREAS IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT'S GUIDANCE, MOISTURE CONTENT AT TIME OF PLACEMENT MUST B SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED. THIS REPORT MUST VERIFY THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS. SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS. RULES. STATUTES, LAWS, ORDINANCES AND CODES WHICH ARE IN EFFECT AND WHICH ARE APPLICABLE TO THE PROJECT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD
- SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE MUST BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL. COMPACTED AS THE GEOTECHNICAL REPORT DIRECTS. EARTHWORK ACTIVITIES INCLUDING. BUT NOT LIMITED TO, EXCAVATION, BACKFILL, AND COMPACTING MUST COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR
- ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETC IN THE EVENT OF A DISCREPANCY(IES) AND/OR A CONFLICT(S) BETWEEN PLANS, OR RELATIVE TO OTHER PLANS, THE GRADING PLAN TAKES PRECEDENCE AND CONTROLS. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN
- WRITING, OF ANY DISCREPANCY(IES) AND/OR CONFLICT(S). THE CONTRACTOR IS RESPONSIBLE TO IMPORT FILL OR EXPORT EXCESS MATERIAL AS NECESSARY TO CONFORM TO THE PROPOSED GRADING, AND TO BACKFILL EXCAVATIONS FOR THE INSTALLATION OF UNDERGROUND IMPROVEMENTS

ACCESSIBILITY DESIGN GUIDELINES

- 1. ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT WHEN THESE PLANS WERE COMPLETED. THE CONTRACTOR MUST REVIEW ALL DOCUMENTS REFERENCED IN THESE NOTES FOR ACCURACY, COMPLIANCE AND CONSISTENCY WITH INDUSTRY GUIDELINES.
- THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ACCESSIBLE (ADA) COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACES, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, AND INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THE ACCESSIBLE GUIDELINES AND REQUIREMENTS WHICH INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING.
- ACCESSIBLE PARKING SPACES AND ACCESS AISLES SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCHES MINIMUM WIDTH (48-INCHES PREFERRED), OR AS PECIFIED BY THE GOVERNING AGENCY. UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS) MUST NOT REDUCE THIS MINIMUM WIDTH. THE SLOPE MUST NOT EXCEED 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE ACCESSIBLE PATH OF TRAVEL IS GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP MUST BE PROVIDED ALONG THE ACCESSIBLE PATH OF TRAVEL OPENINGS MUST NOT EXCEED 1/2-INCH IN WIDTH VERTICAL CHANGES OF UP TO 1/2-INCH ARE PERMITTED ONLY IF THEY INCLUDES A 1/4-INCH BEVEL AT A SLOPE NOT
- STEEPER THAN 1:2. NO VERTICAL CHANGES OVER 1/4-INCH ARE PERMITTED. ACCESSIBLE RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%) AND A RISE OF 30-INCHES. LEVEL LANDINGS MUST BE OVIDED AT EACH END OF ACCESSIBLE RAMPS. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES, AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS MUST HAVE A CLEAR LANDING OF A MINIMUM OF 60-INCHES BY 60-INCHES. HAND RAILS ON BOTH SIDES OF THE RAMP MUST BE PROVIDED ON AN ACCESSIBLE RAMP WITH A RISE GREATER THAN 6-INCHES. ACCESSIBLE CURB RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). WHERE FLARED SIDES ARE PROVIDED. THEY MUST
- NOT EXCEED 1:10 (10%) SLOPE. LEVEL LANDING MUST BE PROVIDED AT RAMPS TOP AT A MINIMUM OF 36-INCHES LONG (48-INCHES PREFERRED). IN ALTERATIONS, WHEN THERE IS NO LANDING AT THE TOP, <u>FLARE SIDES</u> SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). DOORWAY LANDINGS AREAS MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH. F TRAVEL. THIS LANDING MUST BE SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE.
- THIS LANDING AREA MUST BE NO FEWER THAN 60-INCHES (5 FEET) LONG. EXCEPT WHERE OTHERWISE CLEARLY PERMITTED BY ACCESSIBLE STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER REFERENCES INCORPORATED BY CODE) F. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ESSIBLE COMPONENTS FROM EXI
- ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES. IN RARE CIRCUMSTANCES, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR IN ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS BEFORE COMMENCING ANY WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ACCESSIBLE GUIDELINES. THE CONTRACTOR MUST VERIFY ALL OF THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE EXISTS OR IS OBSERVED OR DISCOVERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE
- ENGINEER OF RECORD, IN WRITING, PRIOR TO POURING CONCRETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COSTS TO REMOVE. REPAIR AND/OR REPLACE NON-CONFORMING CONCRETE AND/OR PAVEMENT SURFACES 1. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION TO ENSURE SAME IS CONSISTENT WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCING CONSTRUCTION.

DRAINAGE AND UTILITY NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS, THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES. IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- . LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE <u>APPROXIMATE</u>, AND THE CONTRACTOR MUST INDEPENDENTLY /ERIFY AND CONFIRM THOSE LOCATIONS AND SERVICES WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY CONSTRUCTION OR EXCAVATION. THE CONTRACTOR MUST INDEPENDENTLY VERIFY AND CONFIRM ALL SANITARY CONNECTION POINTS AND ALL OTHER UTILITY SERVICE CONNECTION POINTS IN THE FIELD. PRIOR TO COMMENCING ANY CONSTRUCTION, THE CONTRACTOR MUST REPORT ALL DISCREPANCIES. ERRORS AND OMISSIONS IN WRITING. TO THE ENGINEER OF RECORD. THE CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED
- O, GAS, WATER, ELECTRIC, SANITARY AND STORM, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE OR WORK SPACE, WHICHEVER IS GREATER. THE CONTRACTOR MUST USE, REFER TO, AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL OF THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ANY EXISTING UTILITIES WHICH OCCUR DURING CONSTRUCTION, AT NO COST TO THE OWNER AND AT CONTRACTOR'S SOLE COST AND EXPENSE. THE CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING UTILITIES WHICH OCCURS DURING CONSTRUCTION.
- 4. THE CONTRACTOR MUST FIELD VERIFY THE PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES BY USING A TEST PIT TO CONFIRM EXACT DEPTH, PRIOR TO COMMENCEMENT OF CONSTRUCTION. STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON ARCHITECTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF SAME BASED UPON FINAL ARCHITECTURAL PLANS.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SITE PLAN DOCUMENTS AND ARCHITECTURAL PLANS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS; GREASE TRAP REQUIREMENTS; AND DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR MUST COORDINATE INSTALLATION OF UTILITY SERVICES WITH THE INDIVIDUAL COMPANIES TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT INSTALLATION OF ALL IMPROVEMENTS COMPLIES WITH ALI UTILITY REQUIREMENTS OF THE APPLICABLE JURISDICTION AND REGULATORY AGENCIES AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES AND, FURTHER, IS RESPONSIBLE FOR COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE A CONFLICT(S) EXISTS BETWEEN THESE DOCUMENTS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLAN UTILITY CONNECTION POINTS DIFFER, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, AND PRIOR TO
- CONSTRUCTION. MUST RESOLVE SAME. ALL FILL COMPACTION AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE EXACTLY AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND THE CONTRACTOR MUST COORDINATE SAME WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS, FILL AND COMPACTION MUST COMPLY WITH APPLICABLE REQUIREMENTS AND SPECIFICATIONS. ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR DESIGN OF TRENCH BACKFILL OR FOR COMPACTION REQUIREMENTS
- 8. DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE, THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE. IN ANY RESPECT. FROM THE INFORMATION CONTAINED IN THESE PLANS. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THE APPROPRIATE PLAN(S), WHICH THE CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER IMMEDIATELY UPON THE COMPLETION OF WORK. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SANITARY, WATER AND STORM SYSTEMS, ARE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND OR STATE DOT
- DETAILS AS APPLICABLE. THE CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME 10. FINAL LOCATIONS OF PROPOSED UTILITY POLES, AND/ OR POLES TO BE RELOCATED ARE AT THE SOLE DISCRETION OF THE RESPECTIVE UTILITY COMPANY, REGARDLESS OF WHAT THIS PLAN DEPICTS.
- WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY. THE CONTRACTOR MUST CONTACT THE APPLICABLE MUNICIPALITY TO CONFIRM THE PROPER WATER METER AND VAULT, PRIOR TO COMMENCING CONSTRUCTION 12. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED FINISHED GRADES WITH NO TRIPPING OR SAFETY HAZARD IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.

LIGHTING NOTES

(Rev. 1/2020)

(Rev. 2/2021)

(Rev. 1/2020)

(Rev.2/2021)

- WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- GOVERNMENTAL REGULATIONS AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A HORIZONTAL GEOMETRIC
- AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND
- ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES.
- THE PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVELS THE REVIEWING AGENCY APPROVED

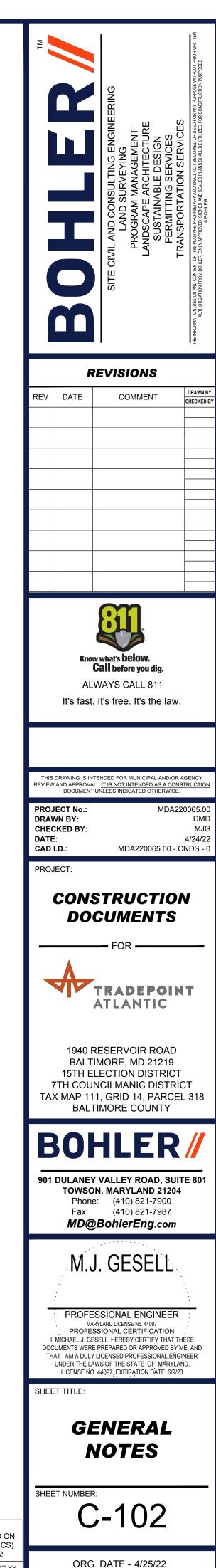
1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS, THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES. IN THEIR ENTIRETY, THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY THE LIGHTING CONTRACTOR MUST COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE PLANS, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL AGENCY AND

(Rev. 1/2020)

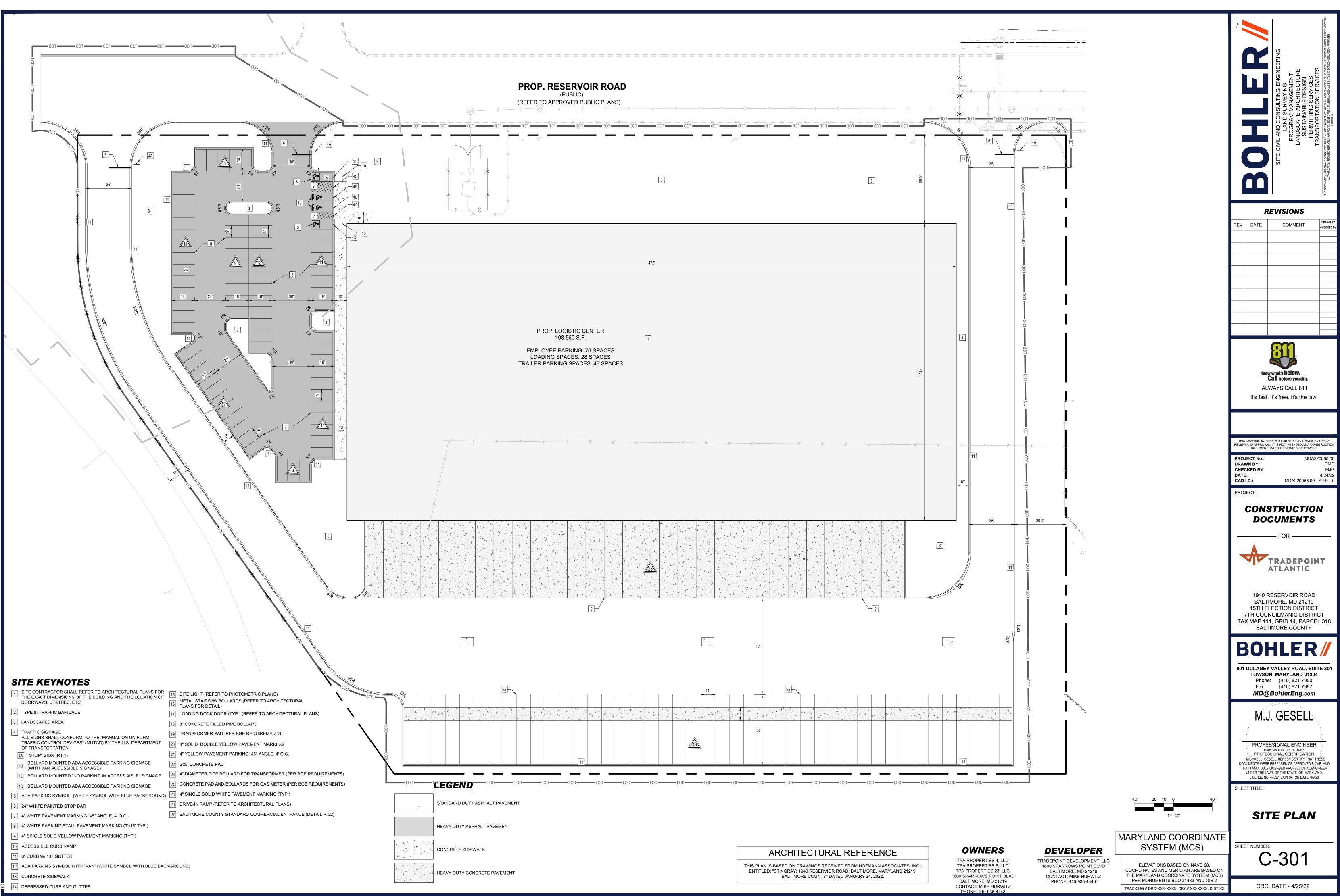
THE LIGHTING PLAN DEPICTS PROPOSED. SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES

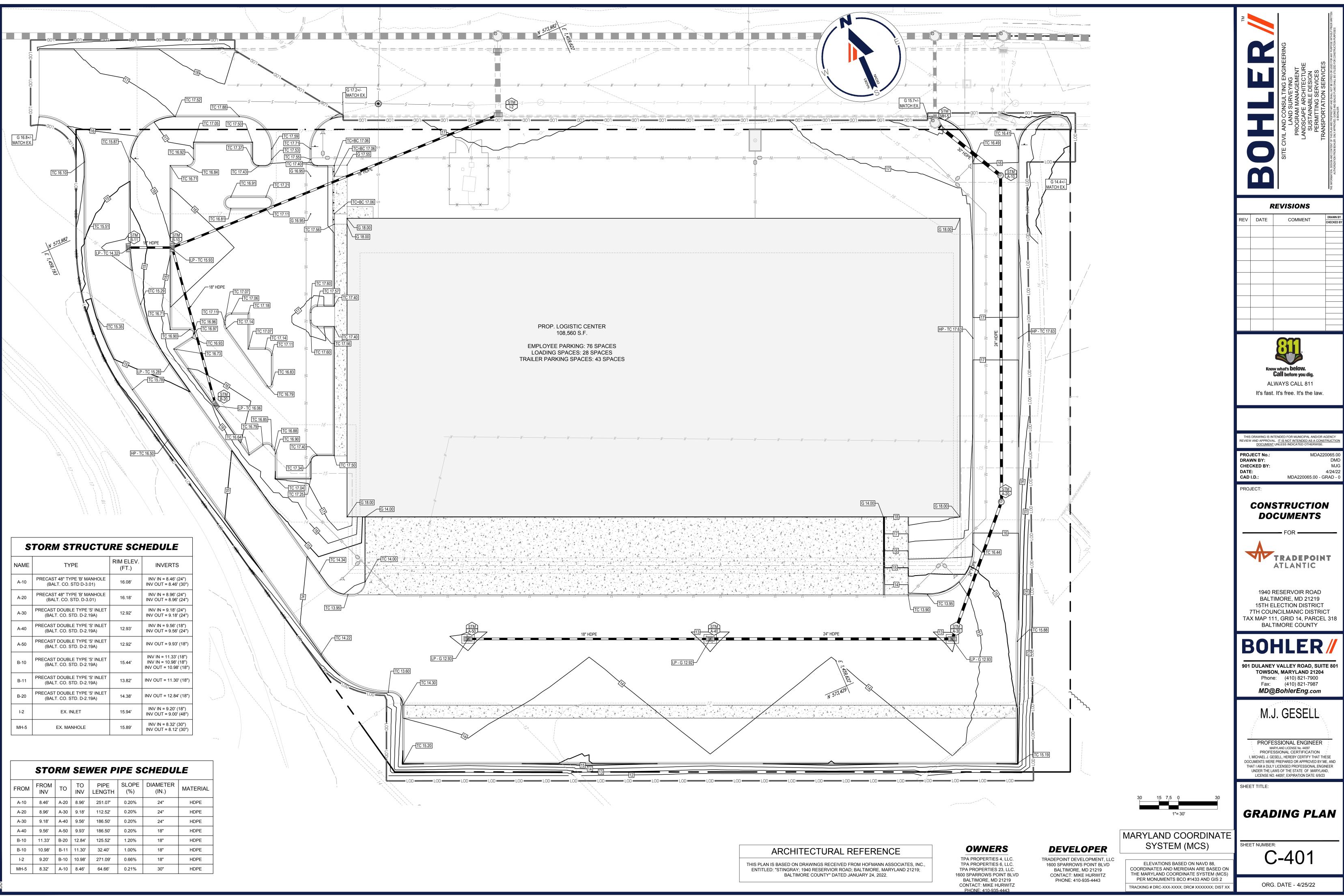
PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED. ILLUMINATION LEVELS ARE SHOWN IN FOOT-CANDLES (FC). THE LUMINAIRES LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY, THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL OBSERVATION, CLEANING OF LENSES, AND RE-LAMPING ACCORDING TO MANUFACTURER RECOMMENDATIONS. FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED DESIGN. UPON COMPLETION AND OWNER'S ACCEPTANCE OF THE WORK, THE ABOVE RESPONSIBILITIES BECOMES SOLELY THE OWNER'S. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES. POWER SYSTEM, CONDUITS, WIRING AND OTHER ELECTRICAL COMPONENTS ARE SOLELY THE ARCHITECT'S MECHANICAL ENGINEER'S AND/OR LIGHTING CONTRACTOR'S RESPONSIBILITY, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THE LIGHTING CONTRACTOR MUST COORDINATE WITH THE PROJECT ARCHITECT AND/OR ELECTRICAL ENGINEER REGARDING ANY AND ALL POWER SOURCES

LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF LIGHTING FIXTURES AND APPURTENANCES IN THE CONTRACTOR MUST BRING IMMEDIATELY. IN WRITING, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES OR OTHER STRUCTURE(S) TO THE ENGINEER OF RECORD'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SHIELDING AND OR ROTATED OPTICS ARE INSTALLED AS INDICATED ON

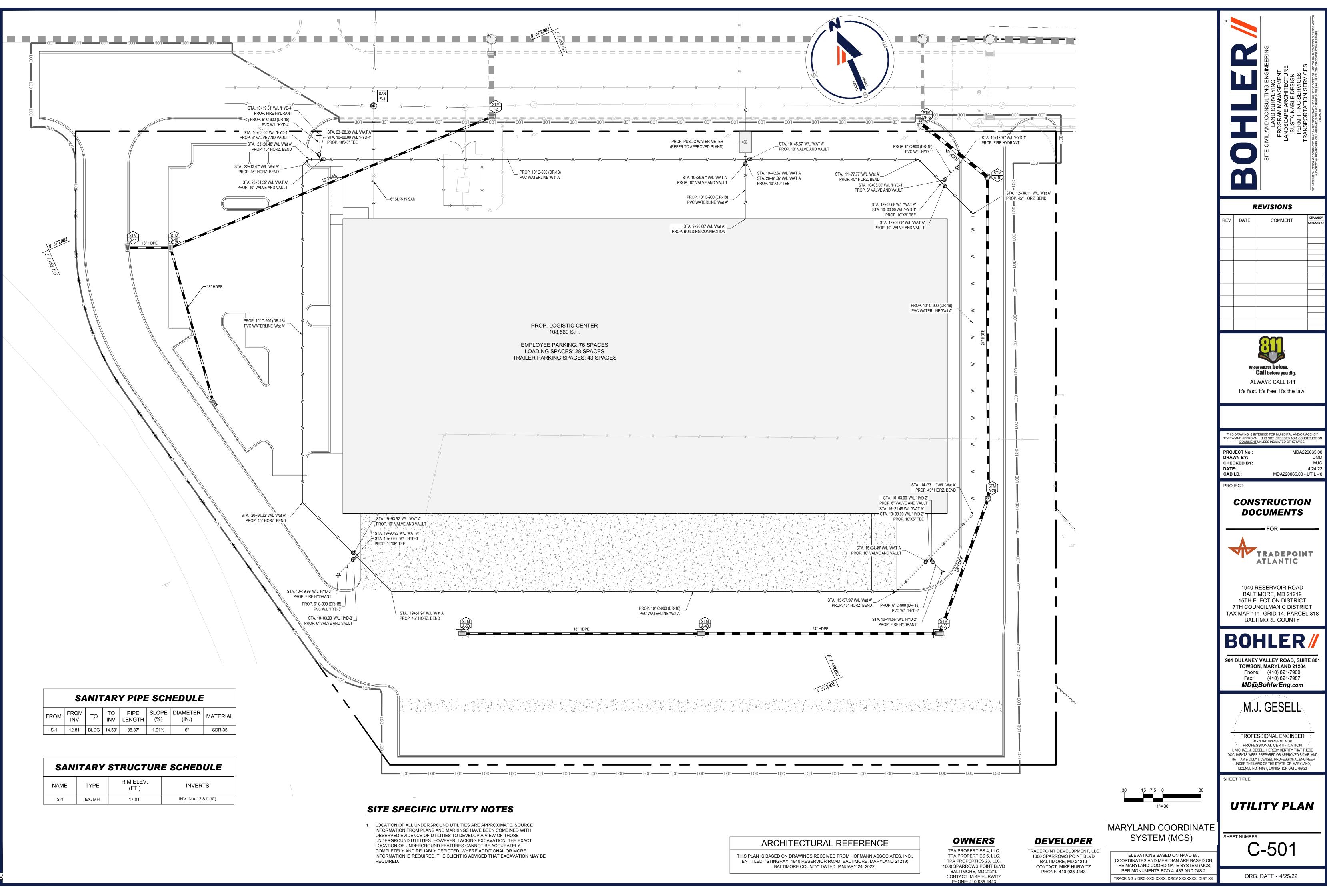


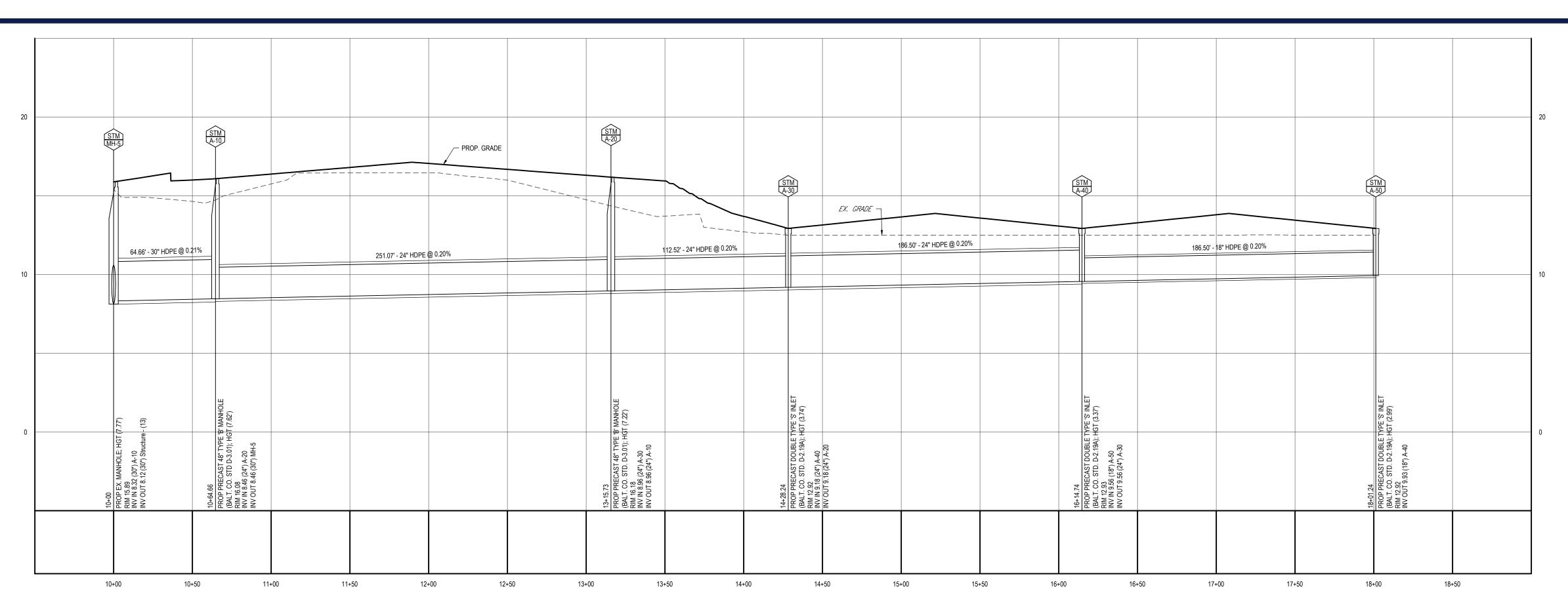
ELEVATIONS BASED ON NAVD 88. COORDINATES AND MERIDIAN ARE BASED ON THE MARYLAND COORDINATE SYSTEM (MCS PER MONUMENTS BCO #1433 AND GIS 2 TRACKING # DRC-XXX-XXXX: DRC# XXXXXXX: DIST

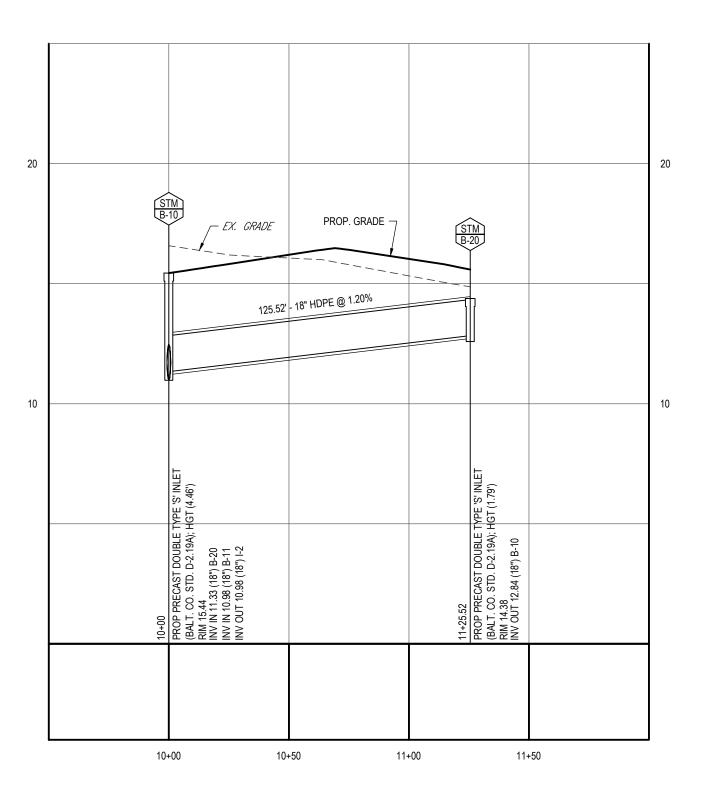




STORM SEWER PIPE SCHEDULE										
FROM	FROM INV	то	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL			
A-10	8.46'	A-20	8.96'	251.07'	0.20%	24"	HDPE			
A-20	8.96'	A-30	9.18'	112.52'	0.20%	24"	HDPE			
A-30	9.18'	A-40	9.56'	186.50'	0.20%	24"	HDPE			
A-40	9.56'	A-50	9.93'	186.50'	0.20%	18"	HDPE			
B-10	11.33'	B-20	12.84'	125.52'	1.20%	18"	HDPE			
B-10	10.98'	B-11	11.30'	32.40'	1.00%	18"	HDPE			
I-2	9.20'	B-10	10.98'	271.09'	0.66%	18"	HDPE			
MH-5	8.32'	A-10	8.46'	64.66'	0.21%	30"	HDPE			

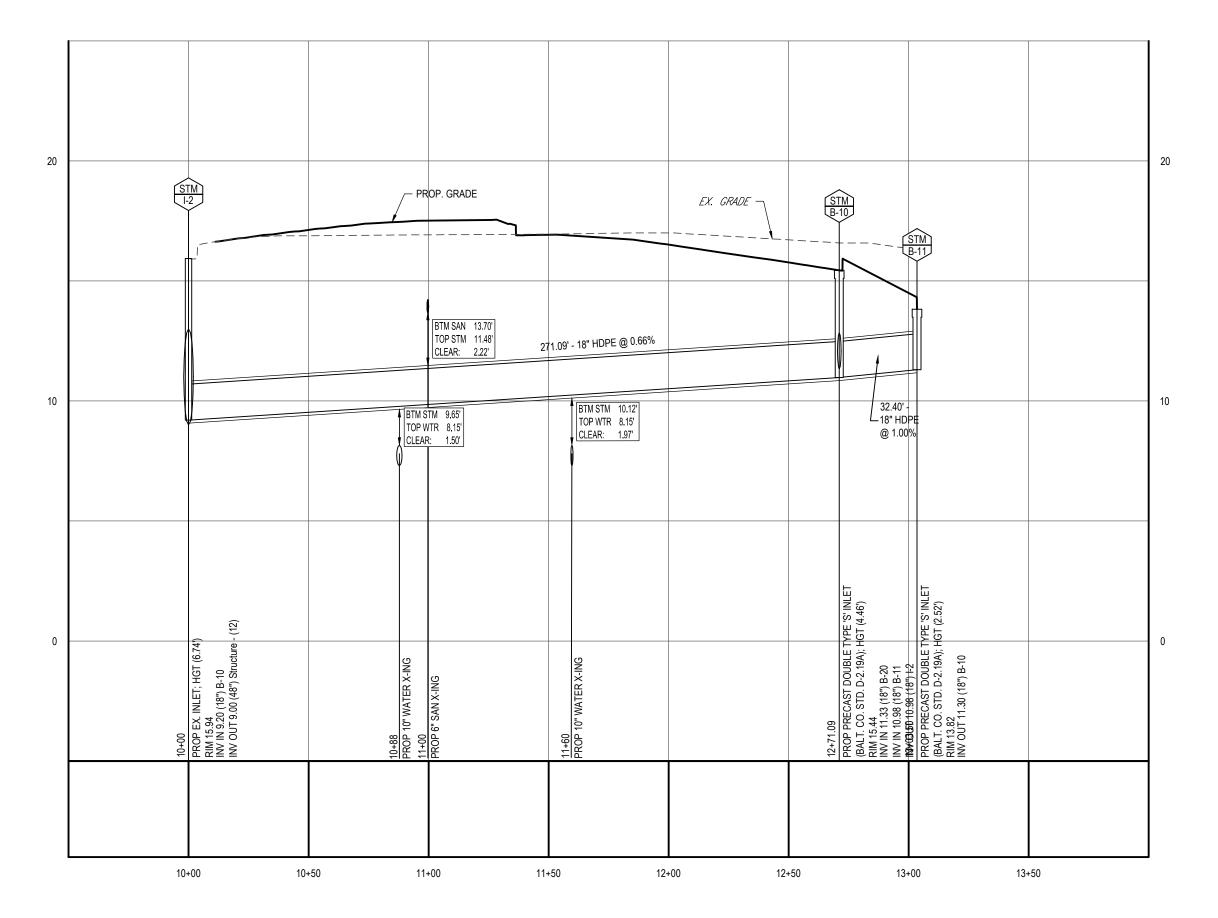




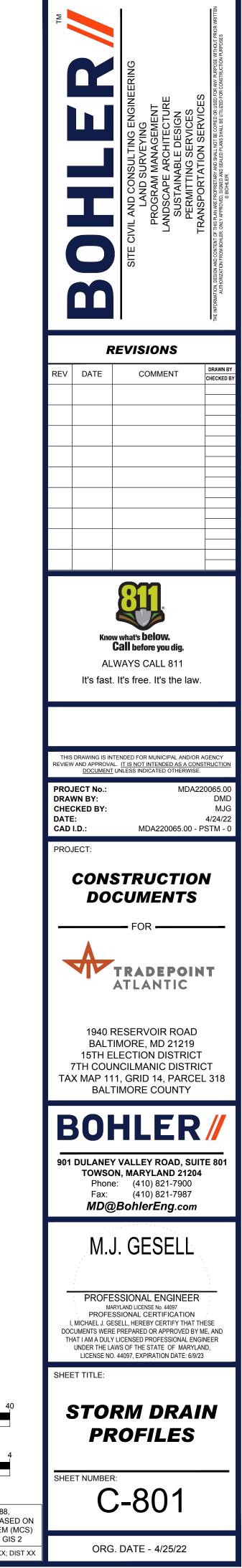


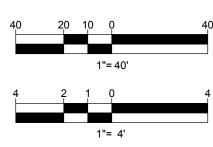
PROPOSED STORM DRAIN - B-10 TO B-20 SCALE: 1"= 40 ' HORIZONTAL 1"= 4 ' VERTICAL



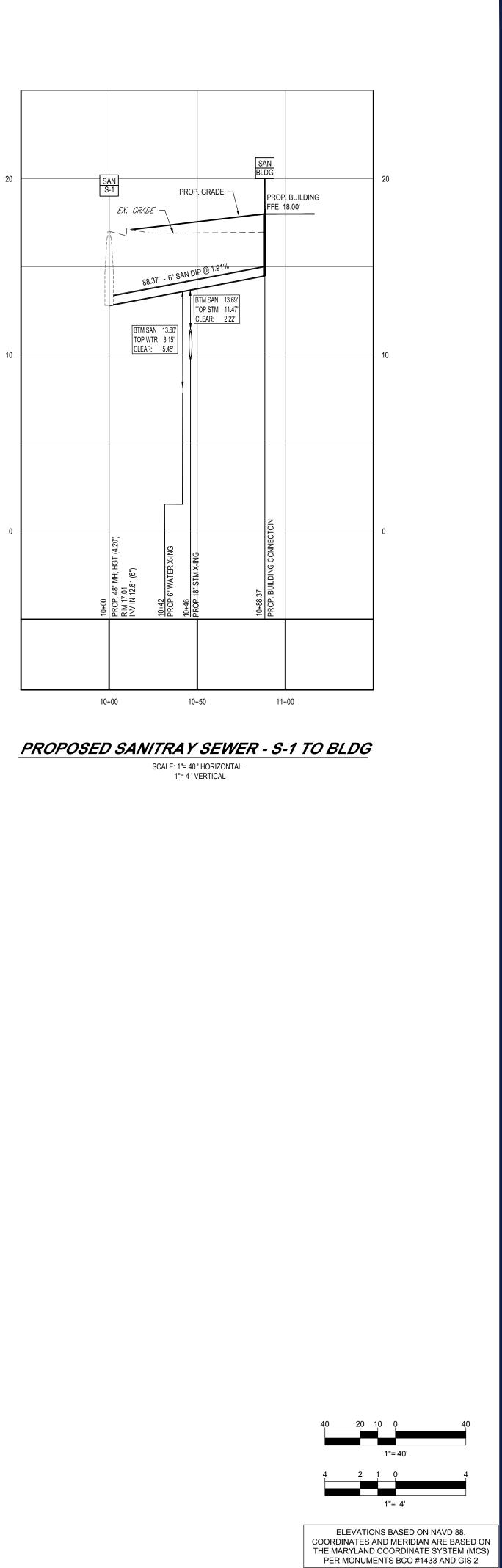


PROPOSED STORM DRAIN - I-2 TO B-11 SCALE: 1"= 40 ' HORIZONTAL 1"= 4 ' VERTICAL





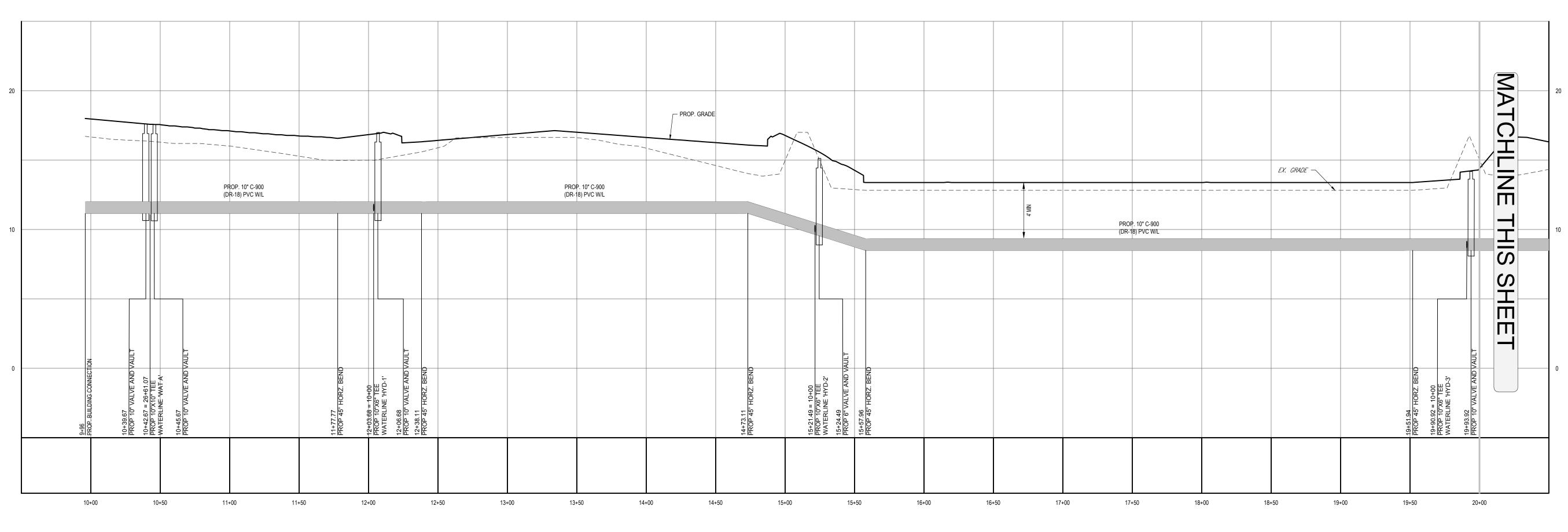
ELEVATIONS BASED ON NAVD 88, COORDINATES AND MERIDIAN ARE BASED ON THE MARYLAND COORDINATE SYSTEM (MCS) PER MONUMENTS BCO #1433 AND GIS 2 TRACKING # DRC-XXX-XXXX; DRC# XXXXXXX; DIST XX

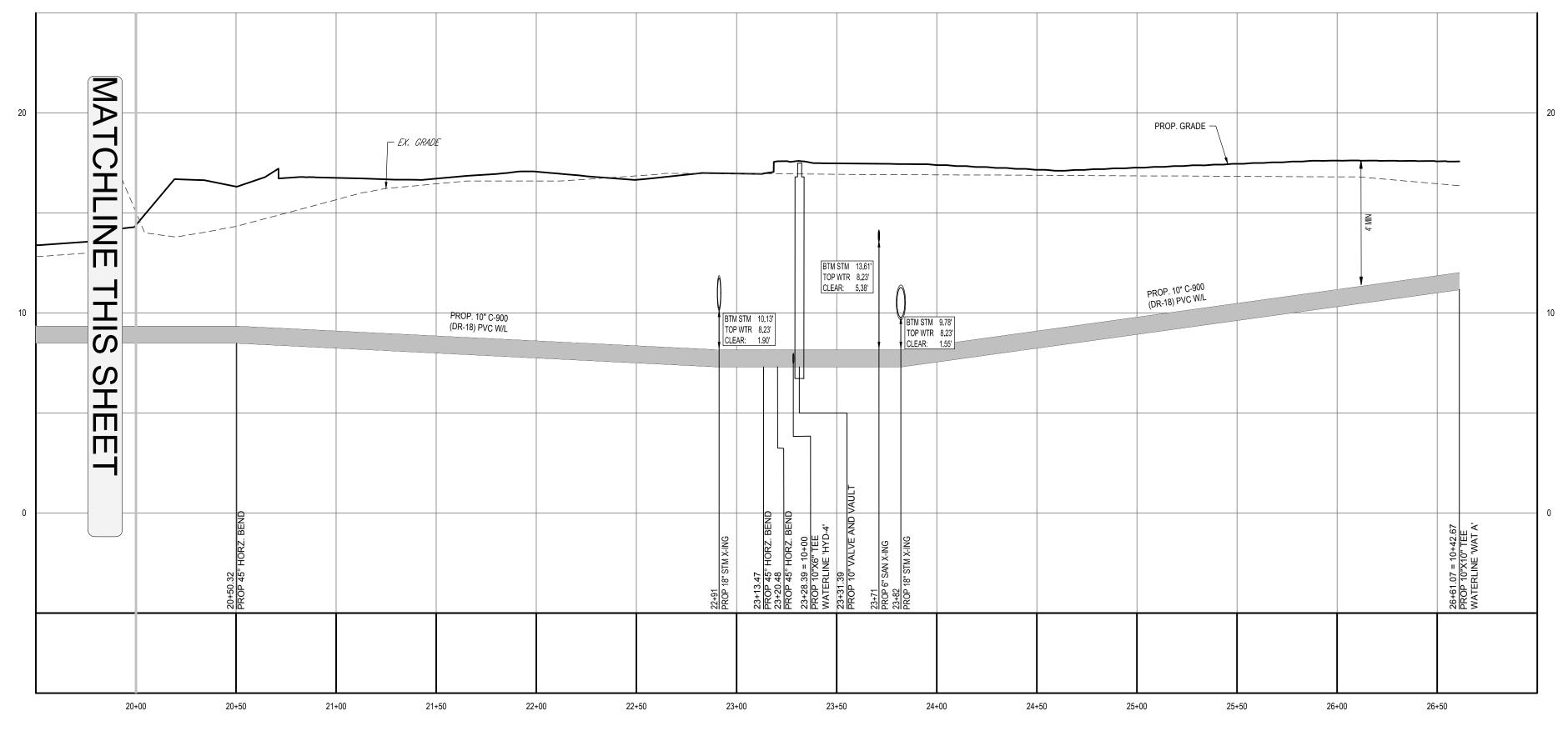




ORG. DATE - 4/25/22

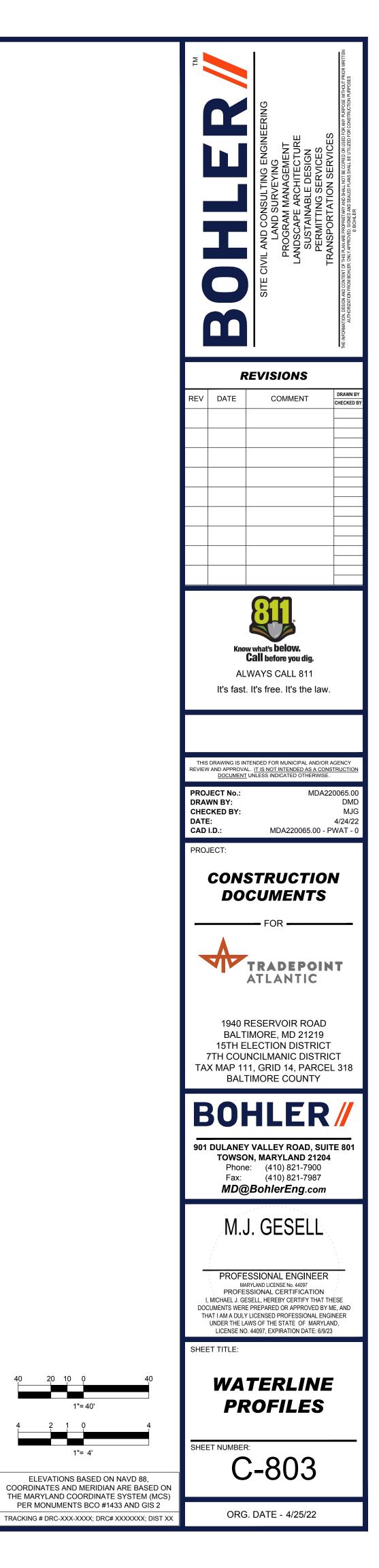
TRACKING # DRC-XXX-XXXX; DRC# XXXXXXX; DIST XX





PROPOSED WATERLINE - A SCALE: 1"= 40 ' HORIZONTAL 1"= 4 ' VERTICAL

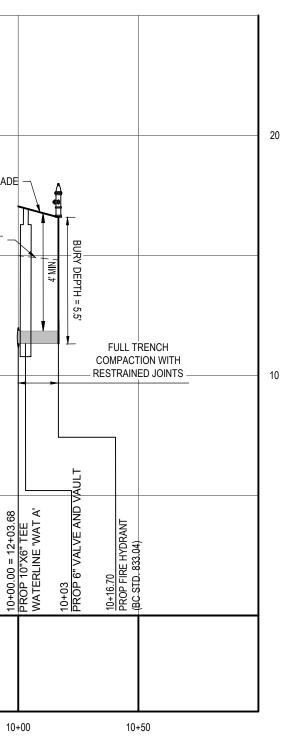


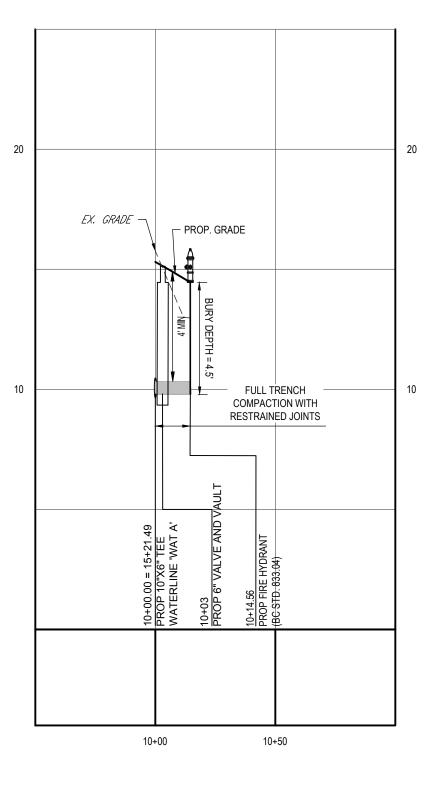


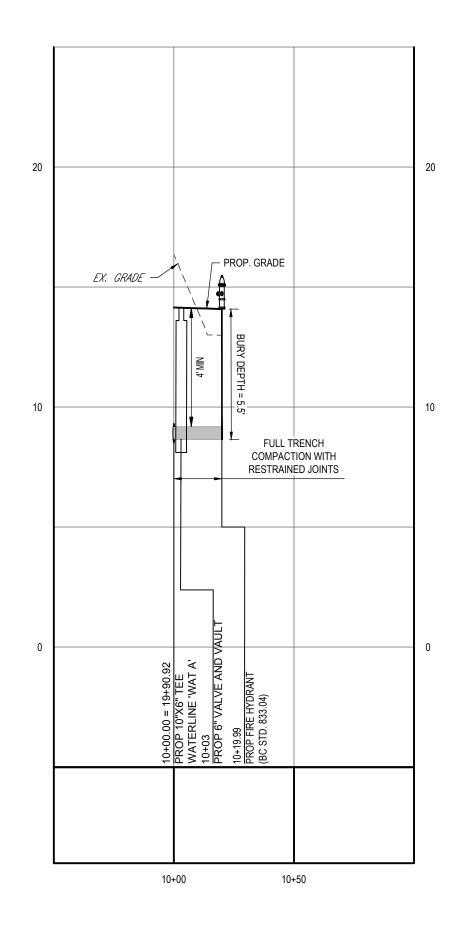
1"= 4'

PROP. GRADE -EX. GRADE

20



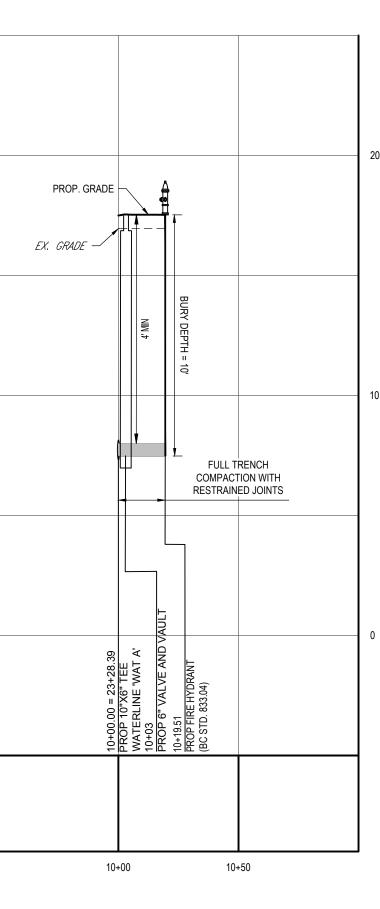




PROPOSED WATERLINE - HYD-1 SCALE: 1"= 40 ' HORIZONTAL 1"= 4 ' VERTICAL

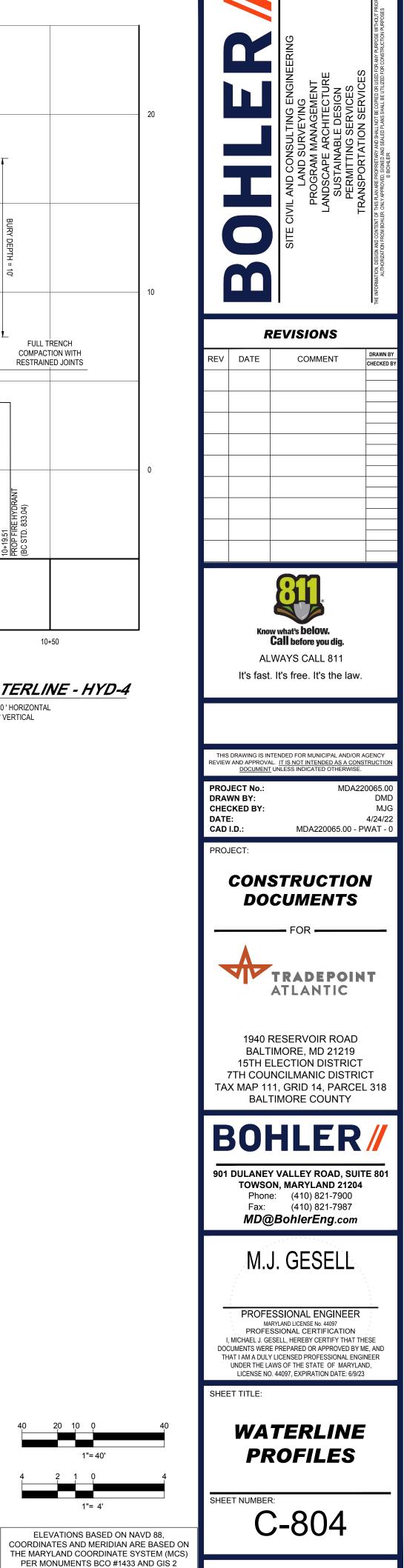
PROPOSED WATERLINE - HYD-2 SCALE: 1"= 40 ' HORIZONTAL 1"= 4 ' VERTICAL

PROPOSED WATERLINE - HYD-3 SCALE: 1"= 40 ' HORIZONTAL 1"= 4 ' VERTICAL



20

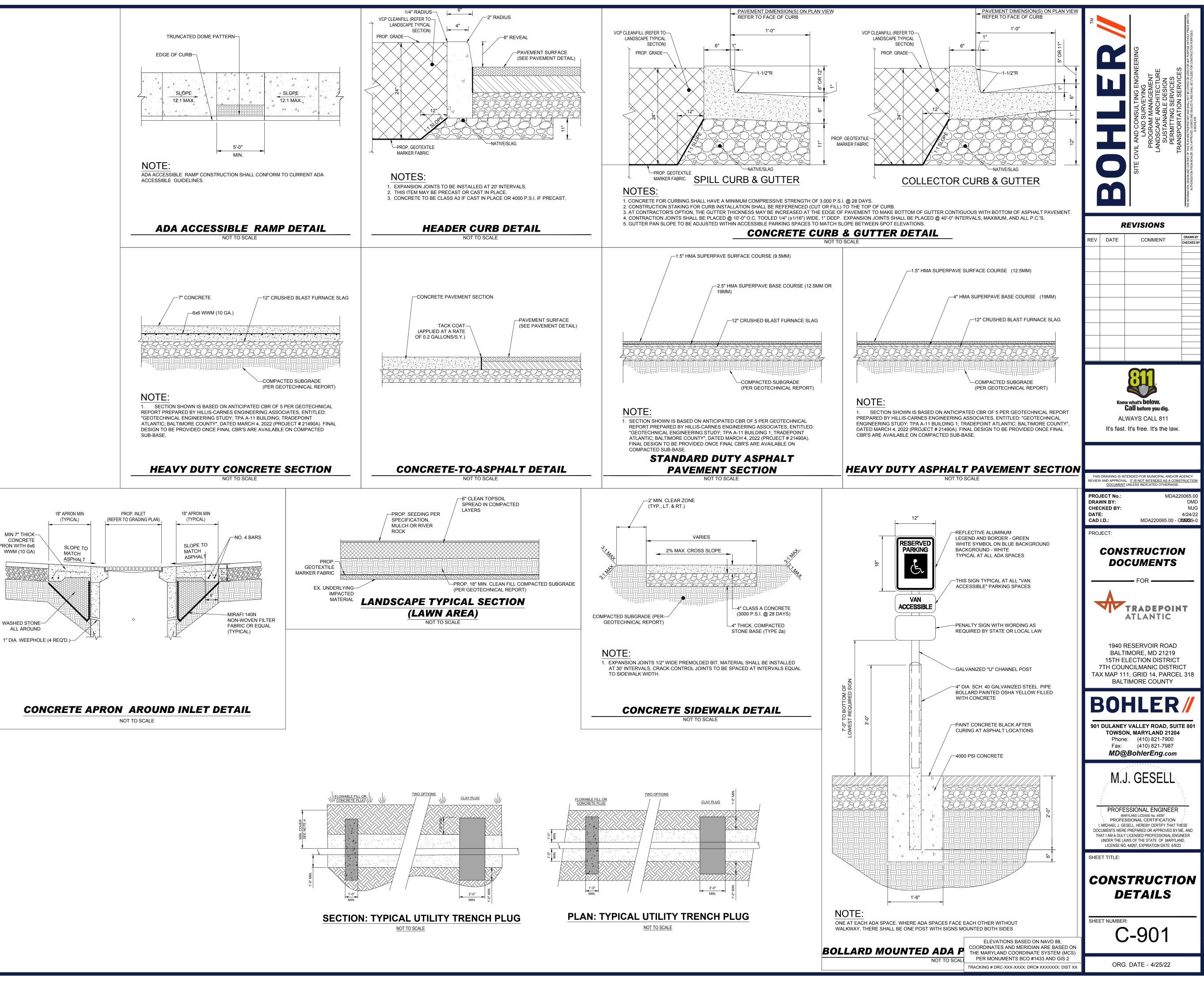
PROPOSED WATERLINE - HYD-4 SCALE: 1"= 40 ' HORIZONTAL 1"= 4 ' VERTICAL



ORG. DATE - 4/25/22

1"= 4'

TRACKING # DRC-XXX-XXXX; DRC# XXXXXXX; DIST XX



MIN 7" THICK-

WWM (10 GA)

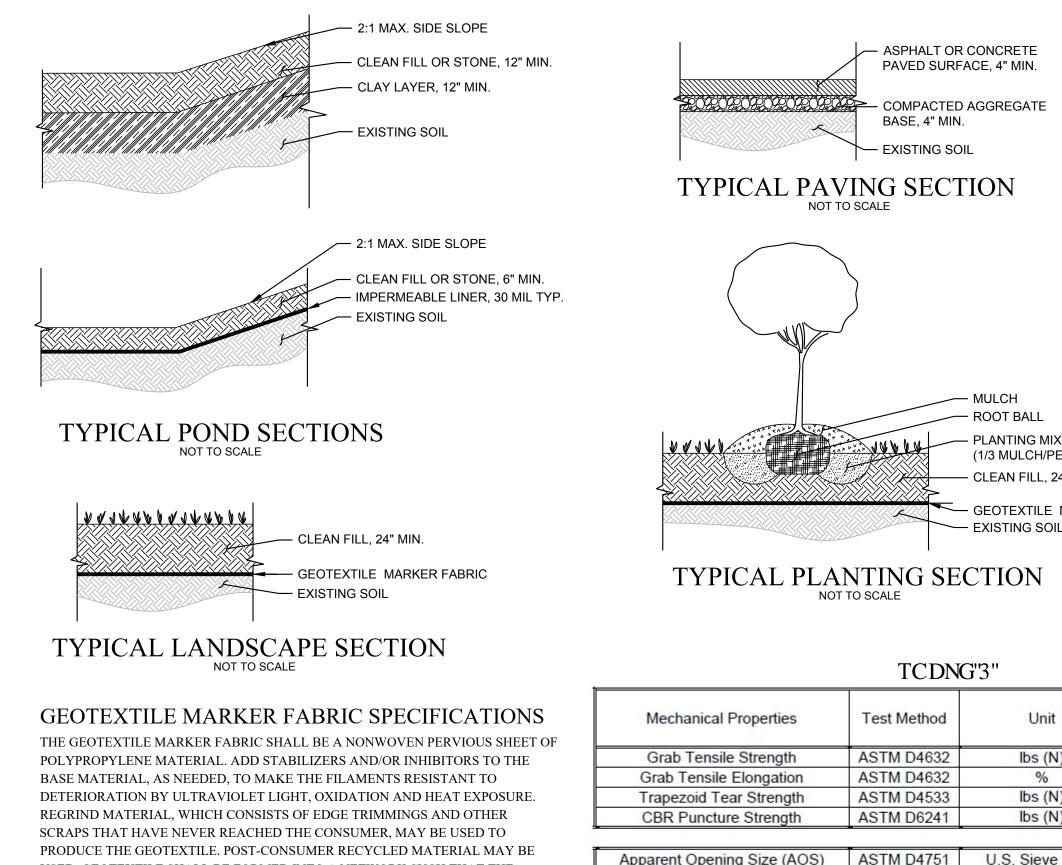
WASHED STONE-

ALL AROUND

APRON WITH 6x6

CONCRETE

APPENDIX E

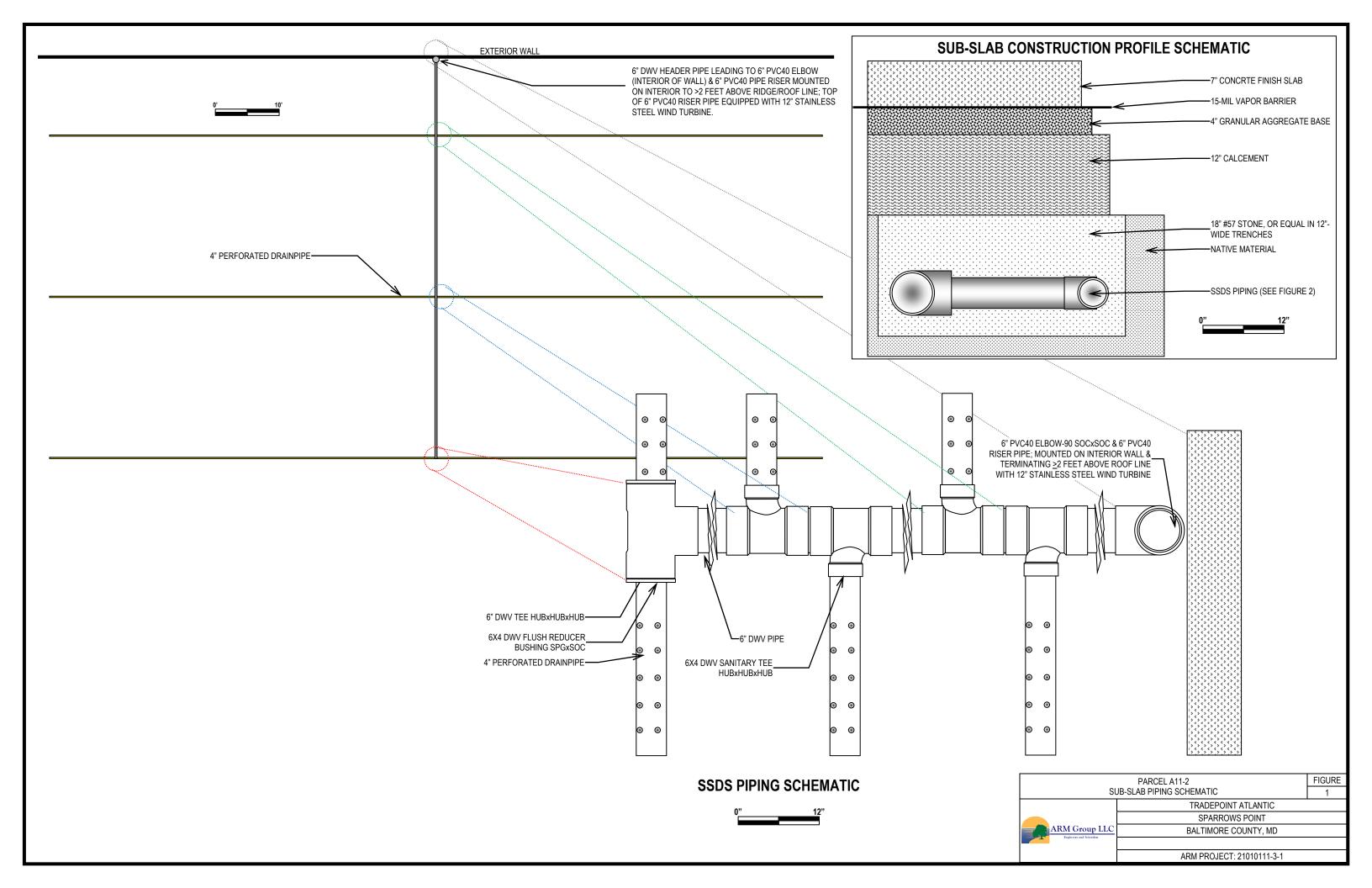


USED. GEOTEXTILE SHALL BE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER, INCLUDING THE EDGES. GEOTEXTILES SHALL MEET THE REQUIREMENTS SPECIFIED IN TABLE 1. WHERE APPLICABLE, TABLE 1 PROPERTY VALUES REPRESENT THE MINIMUM AVERAGE ROLL VALUES IN THE WEAKEST PRINCIPAL DIRECTION. VALUES FOR APPARENT OPENING SIZE (AOS) REPRESENT MAXIMUM AVERAGE ROLL VALUES

ASPHALT OR CONCRETE PAVED SURFACE, 4" MIN. COMPACTED AGGREGATE BASE, 4" MIN. EXISTING SOIL COMPACTED AGGREGATE BASE, 4" MIN. EXISTING SOIL COMPACTED AGGREGATE BASE, 4" MIN. EXISTING SOIL							
TYPICAL PLA	NTING SE TO SCALE		ABRIC			O R KO WO "CAPPING SECTION DETAILS	SPARROWS POINT BALT. COUNTY, MARYLAND
			Minimum		1	ING	
Mechanical Properties	Test Method	Unit	Roll V MD	/alue CD		APP	7)
Grab Tensile Strength	ASTM D4632	lbs (N)	120 (534)	120 (534)		Ŋ	¹⁶ SPARROWS POINT TRADEPOINT ATLANTIC
Grab Tensile Elongation	ASTM D4632	%	50	50		₽ R	SPARROWS POINT ADEPOINT ATLAN
Trapezoid Tear Strength	ASTM D4533	lbs (N)	50 (223)	50 (223)	-	0	S P(
CBR Puncture Strength	ASTM D6241	lbs (N)	310 (1			₽ I	MC
			Maximum O	pening Size		0	POI
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.				PA DE
			Minimum I			o	RA
Permittivity	ASTM D4491	sec ⁻¹	1.			drawing title	at title T
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	135 (5			drawii	project title
	1		Minimum T				
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	0		Sheet	
					-		

MIX
/PEAT; 2/3 TOPSOIL)
24" MIN

APPENDIX F





STEGO® WRAP VAPOR BARRIER

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: JULY 20, 2018

1. PRODUCT NAME

STEGO WRAP VAPOR BARRIER

2. MANUFACTURER

Stego Industries, LLC 216 Avenida Fabricante, Suite 101 San Clemente, CA 92672 Sales, Technical Assistance Ph: [877] 464-7834 contact@stegoindustries.com www.stegoindustries.com



3.

PRODUCT DESCRIPTION

USES: Stego Wrap Vapor Barrier is used as a below-slab vapor barrier.

COMPOSITION: Stego Wrap Vapor Barrier is a multi-layer plastic extrusion manufactured with only high grade prime, virgin, polyolefin resins.

ENVIRONMENTAL FACTORS: Stego Wrap Vapor Barrier can be used in systems for the control of soil gases (radon, methane), soil poisons (oil by-products) and sulfates.

4.) TECHNICAL DATA

TABLE 1: PHYSICAL PROPERTIES OF STEGO WRAP VAPOR BARRIER

PROPERTY	TEST	RESULTS
Under Slab Vapor Retarders	ASTM E1745 Class A, B & C– Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceeds Class A, B & C
Water Vapor Permeance	ASTM F1249 – Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.0086 perms
Permeance After Conditioning (ASTM E1745 Sections 7.1.2 - 7.1.5)	ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking ASTM E154 Section 11, F1249 – Permeance after heat conditioning ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning ASTM E154 Section 13, F1249 – Permeance after soil organism exposure	0.0098 perms 0.0091 perms 0.0097 perms 0.0095 perms
Methane Transmission Rate	ASTM D1434 – Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting	192.8 GTR* (mL(STP)/m ² *day)
Radon Diffusion Coefficient	K124/02/95	8.8 x 10 ⁻¹² m ² /second
Puncture Resistance	ASTM D1709 – Test Method for Impact Resistance of Plastic Film by Free-Falling Dart Method	2,266 grams
Tensile Strength	ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting	70.6 lbf/in
Thickness		15 mil
Roll Dimensions	width x length: area:	14' x 140' 1,960 ft ²
Roll Weight		140 lb

Note: perm unit = grains/(ft²*hr*in-Hg) *CTP = Gas Transmission Pate

STEGO® WRAP VAPOR BARRIER

A STEGO INDUSTRIES, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: JULY 20, 2018

5. INSTALLATION

UNDER SLAB: Unroll Stego Wrap Vapor Barrier over an aggregate, sand or tamped earth base. Overlap all seams a minimum of 6 inches and tape using Stego[®] Tape or Stego[®] Crete Claw[®] Tape. All penetrations must be sealed using a combination of Stego Wrap and Stego Accessories.

For additional information, please refer to Stego's complete installation instructions.

6. AVAILABILITY & COST

Stego Wrap Vapor Barrier is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries' Sales Representative.

WARRANTY

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

MAINTENANCE

None required.

TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

Email:contact@stegoindustries.comContact Number:(877) 464-7834Website:www.stegoindustries.com

10. FILING SYSTEMS

• www.stegoindustries.com



(877) 464-7834 | www.stegoindustries.com

DATA SHEETS ARE SUBJECT TO CHANGE. FOR MOST CURRENT VERSION, VISIT WWW.STEGOINDUSTRIES.COM



STEGO® WRAP VAPOR BARRIER/RETARDER INSTALLATION INSTRUCTIONS

IMPORTANT: Please read these installation instructions completely, prior to beginning any Stego Wrap installation. The following installation instructions are based on ASTM E1643 - Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs. If project specifications call for compliance with ASTM E1643, then be sure to review the specific installation sections outlined in the standard along with the techniques referenced in these instructions.

FIGURE 1: UNDER-SLAB INSTALLATION

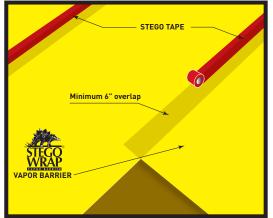
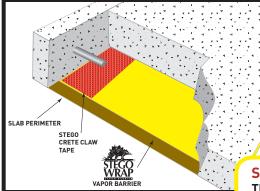


FIGURE 2a: SEAL TO SLAB AT PERIMETER



UNDER-SLAB INSTRUCTIONS:

- Stego Wrap can be installed over an aggregate, sand, or tamped earth base. It is not necessary to have a cushion layer or sand base, as Stego Wrap is tough enough to withstand rugged construction environments.
- 2. Unroll Stego Wrap over the area where the slab is to be placed. Stego Wrap should completely cover the concrete placement area. All joints/ seams both lateral and butt should be overlapped a minimum of 6" and taped using Stego® Tape.

NOTE: The area of adhesion should be free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive tape.

ASTM E1643 requires sealing the perimeter of the slab. *Extend vapor* retarder over footings and seal to foundation wall, grade beam, or slab at an elevation consistent with the top of the slab or terminate at impediments such as waterstops or dowels. Consult the structural engineer of record before proceeding.

SEAL TO SLAB AT PERIMETER:*

NOTE: Clean the surface of Stego Wrap to ensure that the area of adhesion is free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive adhesive.

- a. Install Stego[®] Crete Claw[®] Tape on the entire perimeter edge of Stego Wrap.
- b. Prior to the placement of concrete, ensure that the top of Stego Crete Claw Tape is free of dirt, debris, or mud to maximize the bond to the concrete.

STEGO LABOR SAVER!

This method not only complies with ASTM E1643, but it also: • reduces labor compared to other perimeter sealing techniques.

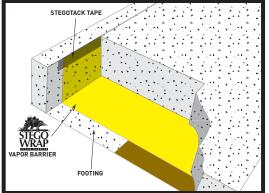
can be used even without an existing wall or footing, unlike alternatives.

<u>OR</u> SEAL TO PERIMETER WALL WITH STEGOTACK® TAPE:*

- a. Make sure area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion.
- b. Remove release liner on one side and stick to desired surface.
- c. When ready to apply Stego Wrap, remove the exposed release liner and press Stego Wrap firmly against StegoTack Tape to secure.

* If ASTM E1643 is specified, consult with project architect and structural engineer to determine which perimeter seal technique should be employed for the project.

FIGURE 2b: SEAL TO PERIMETER WALL



In the event that Stego Wrap is damaged during or after installation, repairs must be made. For holes, cut a piece of Stego Wrap to a size and shape that covers any damage by a minimum overlap of 6" in all directions. Clean all adhesion areas of dust, dirt, moisture, and frost. Tape down all edges using Stego Tape (See Figure 3).

FIGURE 3: SEALING DAMAGED AREAS



IMPORTANT: ALL PENETRATIONS MUST BE SEALED. All pipe, ducting, rebar, wire penetrations and block outs should be sealed using Stego Wrap, Stego Tape and/or Stego Mastic (See Figure 4a). If penetrations are encased in other materials, such as expansive materials like foam, unless otherwise specified, Stego Wrap should be sealed to the underlying penetration directly.

FIGURE 4a: PIPE PENETRATION SEALING



STEGO WRAP PIPE PENETRATION REPAIR DETAIL:

- 1: Install Stego Wrap around pipe penetrations by slitting/cutting material as needed. Try to minimize the void space created.
- 2: If Stego Wrap is close to pipe and void space is minimized then seal around pipe penetration with Stego Tape and/or Stego Mastic.

(See Figure 4a)

- 3: If detail patch is needed to minimize void space around penetration, then cut a detail patch to a size and shape that creates a 6" overlap on all edges around the void space at the base of the pipe. Stego Pre-Cut Pipe Boots are also available to speed up the installation.
- 4: Cut an "X" the size of the pipe diameter in the center of the pipe boot and slide tightly over pipe.
- 5: Tape down all sides of the pipe boot with Stego Tape.
- 6: Seal around the base of the pipe using Stego Tape and/or Stego Mastic. (See Figure 4b)

FIGURE 4b: DETAIL PATCH FOR PIPE PENETRATION SEALING

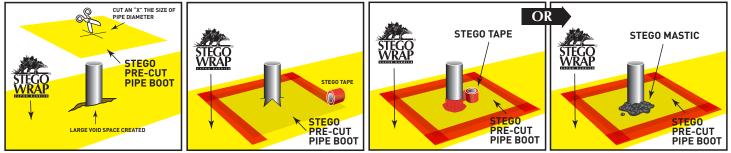
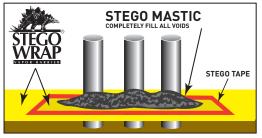


FIGURE 5: MULTIPLE PIPE PENETRATION SEALING



MULTIPLE PIPE PENETRATION SEALING:

Multiple pipe penetrations in close proximity and very small pipes may be sealed using Stego Wrap and Stego Mastic for ease of installation (See Figure 5).

NOTE: Stego Industries, LLC's ("Stego") installation instructions are based on ASTM E1643 - Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs. These instructions are meant to be used as a guide, and do not take into account specific job site situations. Consult local building codes and regulations along with the building owner or owner's representative before proceeding. If you have any questions regarding the above mentioned installation instructions or Stego products, please call us at 877-464-7834 for technical assistance. While Stego employees and representatives may provide technical assistance regarding the utility of a specific installation practice or Stego product, they are not authorized to make final design decisions.

STEGO INDUSTRIES, LLC • SAN CLEMENTE, CA 92672 • 949-257-4100 • 877-464-7834

o, the stegosaurus design logo[s], Crete Claw, StegoTack, StegoCrawl, Beast, and the Beast design logo are all deemed to be registered and/or protectable emarks or service marks of Stego Industries, LLC. © 2018 Stego Industries, LLC. All Rights Reserved. Please see www.stegoindustries.com/legal. 1/2018

www.stegoindustries.com

CRRGPFKZ'I "



ARM Group LLC

Engineers and Scientists

May 17, 2022

Ms. Barbara Brown Project Coordinator Maryland Department of the Environment 1800 Washington Boulevard Baltimore, MD 21230

> Re: Sub-Slab Soil Gas & Indoor Air Monitoring Plan (Revision 2) Area A: Sub-Parcel A11-2 Tradepoint Atlantic Sparrows Point, MD 21219

Dear Ms. Brown:

ARM Group LLC (ARM), on behalf of Tradepoint Atlantic, is proposing to conduct sub-slab soil gas and indoor air sampling within Sub-Parcel A11-2 (the Site), which is part of Area A of the Tradepoint Atlantic property located in Sparrows Point, Maryland. This plan is being submitted to the Maryland Department of the Environment (MDE) and the United States Environmental Protection Agency (USEPA) to propose pre- and post-occupancy monitoring to assess potential vapor intrusion (VI) risk. This Monitoring Plan provides specifications for the proposed indoor air and soil gas monitoring.

A total of 18 sub-slab soil gas monitoring points are proposed to be installed between the two logistics center buildings. The northern and southern logistics centers will have areas of approximately 450,000 square feet and 108,560 square feet, respectively. The northern logistics center will contain 14 monitoring points and the southern logistics center will contain four monitoring points. The points will be installed and sampled prior to each building's occupancy. The proposed monitoring point locations for both sub-slab soil gas and indoor air are shown on **Figure 1**. Minor adjustments to the final locations of the monitoring points may be necessary following construction based on the final interior layout of the buildings. Precautions will be taken to ensure that the sub-slab venting system (installed separately prior to building slab installation) is not disturbed by the installation of the sub-slab sampling points.

One round of pre-occupancy sub-slab soil gas sampling will be performed in each building using the new monitoring points following their installation. If the results of the initial round of subslab soil gas sampling are below the Project Action Limits (PALs), then the building will be occupied, and a subsequent post-occupancy round of indoor air and sub-slab soil gas sampling will

PRECISE. RESPONSIVE. SOLUTIONS.

be performed within 90 days of occupancy. If the pre-occupancy sub-slab soil gas results indicate the presence of a potentially unacceptable VI risk (i.e., exceedances of the PALs), then a subsequent round of indoor air and sub-slab soil gas sampling will be performed prior to occupancy, and any additional monitoring and/or response measures will be coordinated with the MDE and USEPA as needed. The two buildings proposed for Sub-Parcel A11-2 may have separate tenants; therefore, occupancy requirements for each building may be implemented on separate schedules. The pre-occupancy indoor air and/or sub-slab soil gas sampling noted above for the two buildings will be completed based on the proposed occupancy schedule for each building.

Each sub-slab soil gas monitoring point will be installed in accordance with the following procedures. For each installation, a 6-inch diameter pilot-hole will be cored through the concrete floor. The vapor barrier (below the concrete slab) will be carefully cut and peeled back to gain access to the subsurface. A hammer drill and/or a hand auger will be used to create a shallow borehole that extends through the subgrade to a depth of 12 inches below the bottom of the floor slab. A 6-inch soil gas implant, constructed of double woven stainless-steel wire screen, will be attached to an appropriate length of polyethylene tubing and lowered to the bottom of the borehole. Once the implant and tubing are installed, the tubing will be capped with a three-way valve, and clean sand will be added around the implant to create a permeable layer that extends at least 2 inches above the implant. Bentonite will be added and hydrated to create a seal above the sand pack that extends to the vapor barrier, which will then be folded back into place prior to adding additional hydrated bentonite. Additional bentonite will be added until it is within the pilot-hole and at least 2 inches above the vapor barrier. The monitoring points will be finished with a flushmount surface completion (manhole) with a concrete collar. Surface completions will be H-20 traffic rated (or equivalent).

Once installed, each sub-slab soil gas monitoring probe will be allowed to equilibrate for at least 24 hours. Following this equilibration period, leak testing will be performed at each location in accordance with the procedures referenced in the Quality Assurance Project Plan (QAPP) Worksheet 21 – Field Standard Operating Procedures (SOPs), SOP No. 002 to confirm no fresh air intrusion.

Sub-slab soil gas samples will be collected according to procedures outlined in QAPP Worksheet 21 – Field SOPs, SOP No. 002 – Sub-Slab Soil Gas Sampling. The sub-slab soil gas samples will be collected using 6-liter Summa Canisters set for an 8-hour collection time. The indoor air samples will be collected according to procedures outlined in QAPP Worksheet 21 – Field SOPs, SOP No. 001 – Indoor Air Sampling. The indoor air samples will be collected during the second round of monitoring at the same approximate time as the sub-slab soil gas samples; these will also be collected using 6-liter Summa Canisters set for an 8-hour collection time. All samples will be submitted to Pace Analytical Services, Inc. (PACE) and analyzed for VOCs via USEPA Method TO-15. The full list of TO-15 VOCs approved for property-wide investigations is included as



Attachment 1. Sample containers, preservatives, and holding times for the TO-15 analysis are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times.

3

Quality assurance and quality control (QA/QC) samples are collected during field studies for various purposes, among which are to isolate site effects (control samples), to define background conditions (background sample), and to evaluate field/laboratory variability (duplicates, etc.). The following QA/QC samples will be submitted for analysis during each scheduled monitoring event (as appropriate):

- Blind Field Duplicate 1 sample of air or sub-slab soil gas (selected by field personnel).
- Field Blank 1 sample of ambient air from an exterior area in the breathing zone during indoor air sampling.
- Equipment Blank 1 sample of "clean" air provided by the laboratory.

The QA/QC samples will be collected and analyzed in accordance with the QAPP Worksheet 12 – Measurement Performance Criteria, QAPP Worksheet 20 – Field Quality Control, and QAPP Worksheet 28 – Analytical Quality Control and Corrective Action.

Following each monitoring event, a brief Letter Report will be submitted to the MDE and USEPA that will document the sample collection procedures and present and interpret the analytical results. All results will be presented in tabular and graphical formats as appropriate to best summarize the data for future use. Recommendations will be presented for any additional site investigation activities such as supplemental sampling, if warranted.

If you have questions regarding any information covered in this document, please feel free to contact Peter Haid at Tradepoint Atlantic: 443-649-5055.

Respectfully Submitted, ARM Group LLC

Jun Bann

Joshua M. Barna, G.I.T. Project Geologist

G

r

0

u

р

А

R

Μ

Kay Sull

Kaye Guille, P.E., PMP Senior Engineer

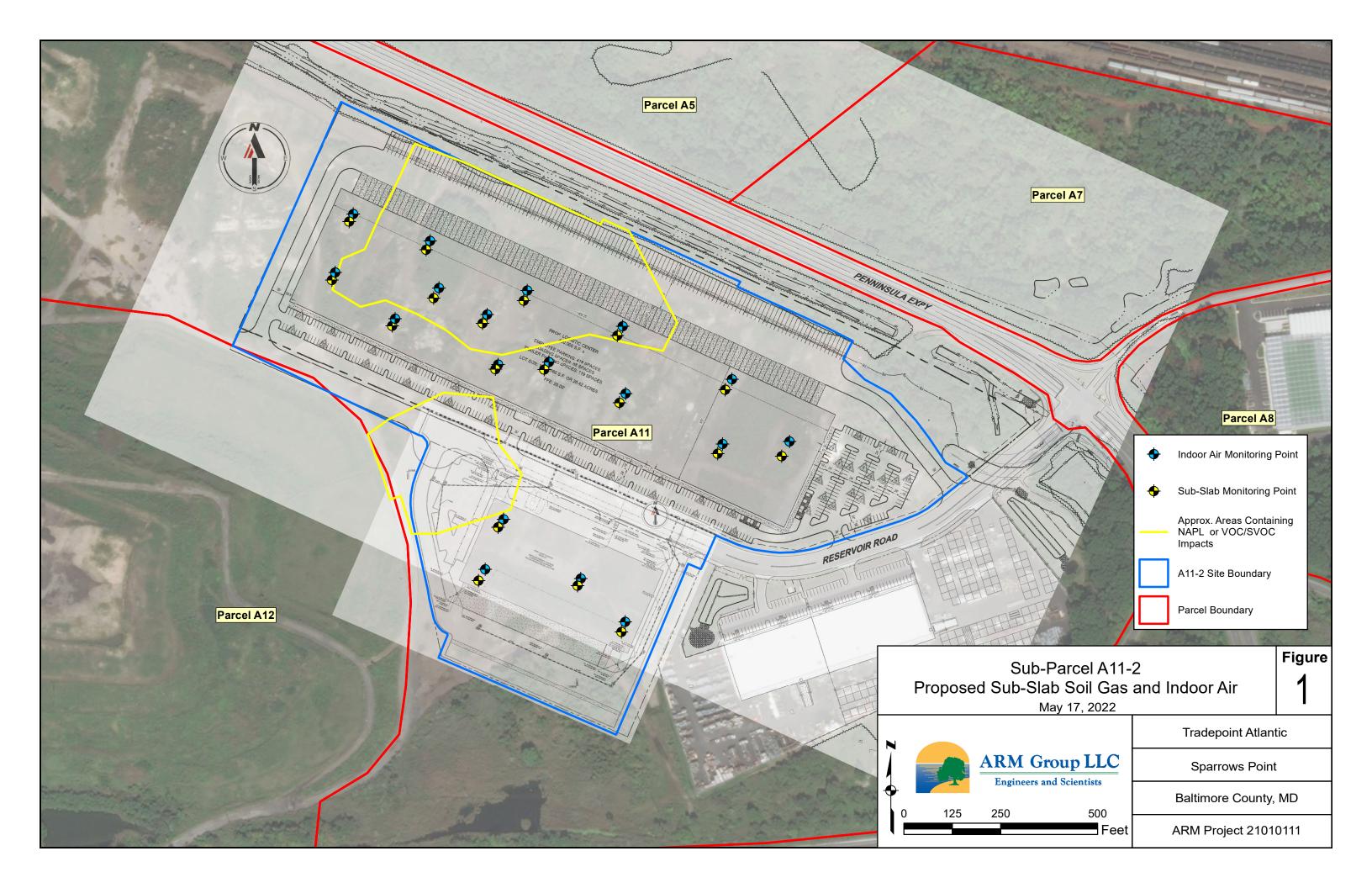
L

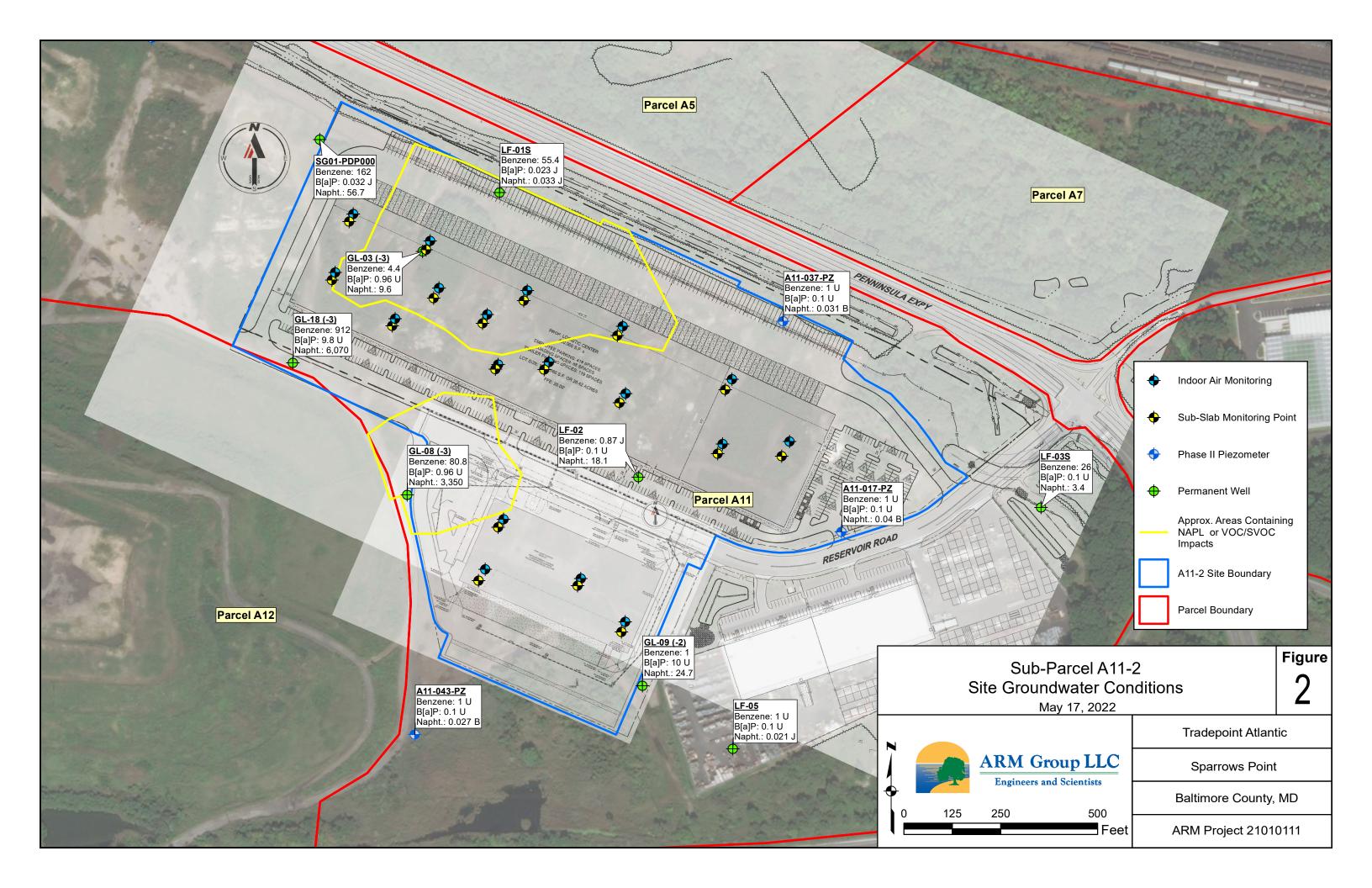
L

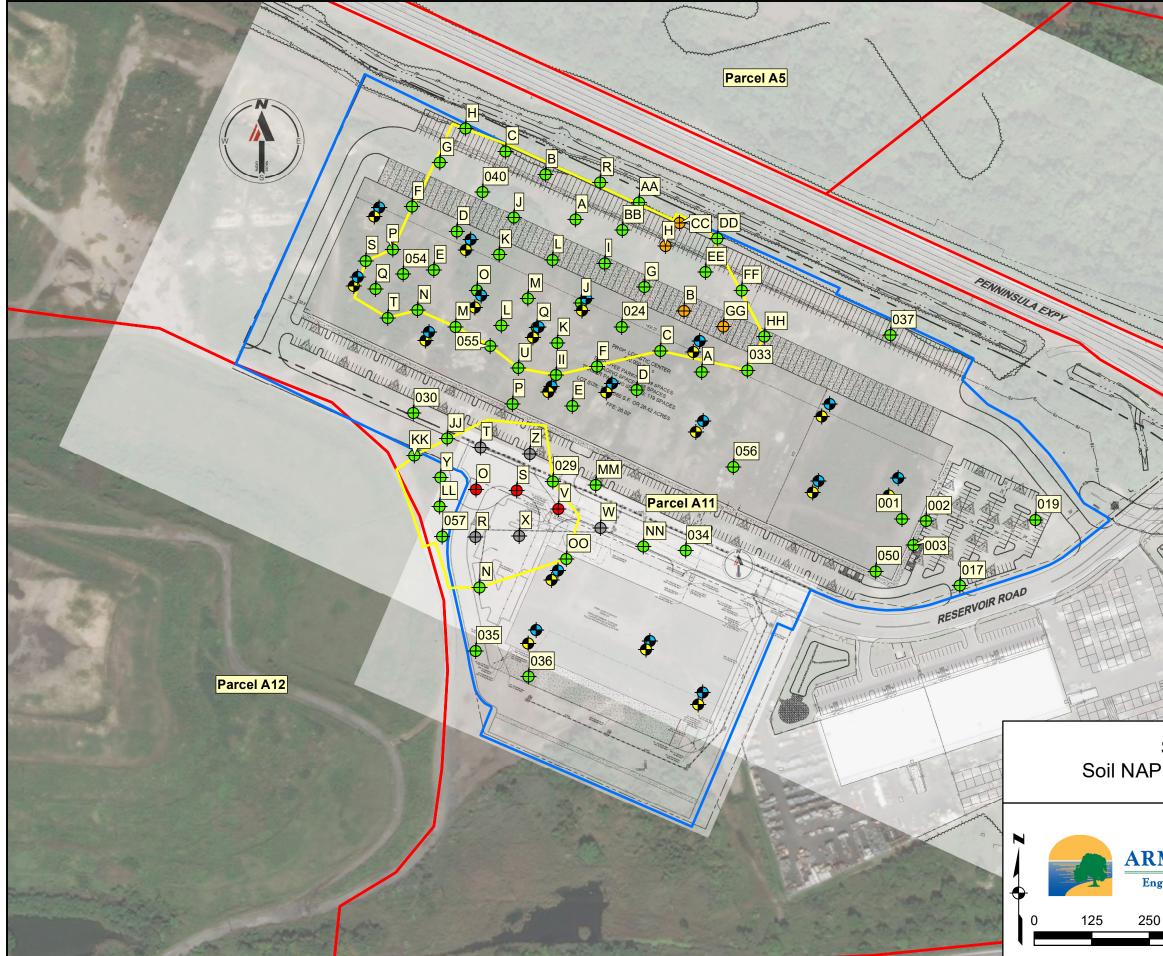
С



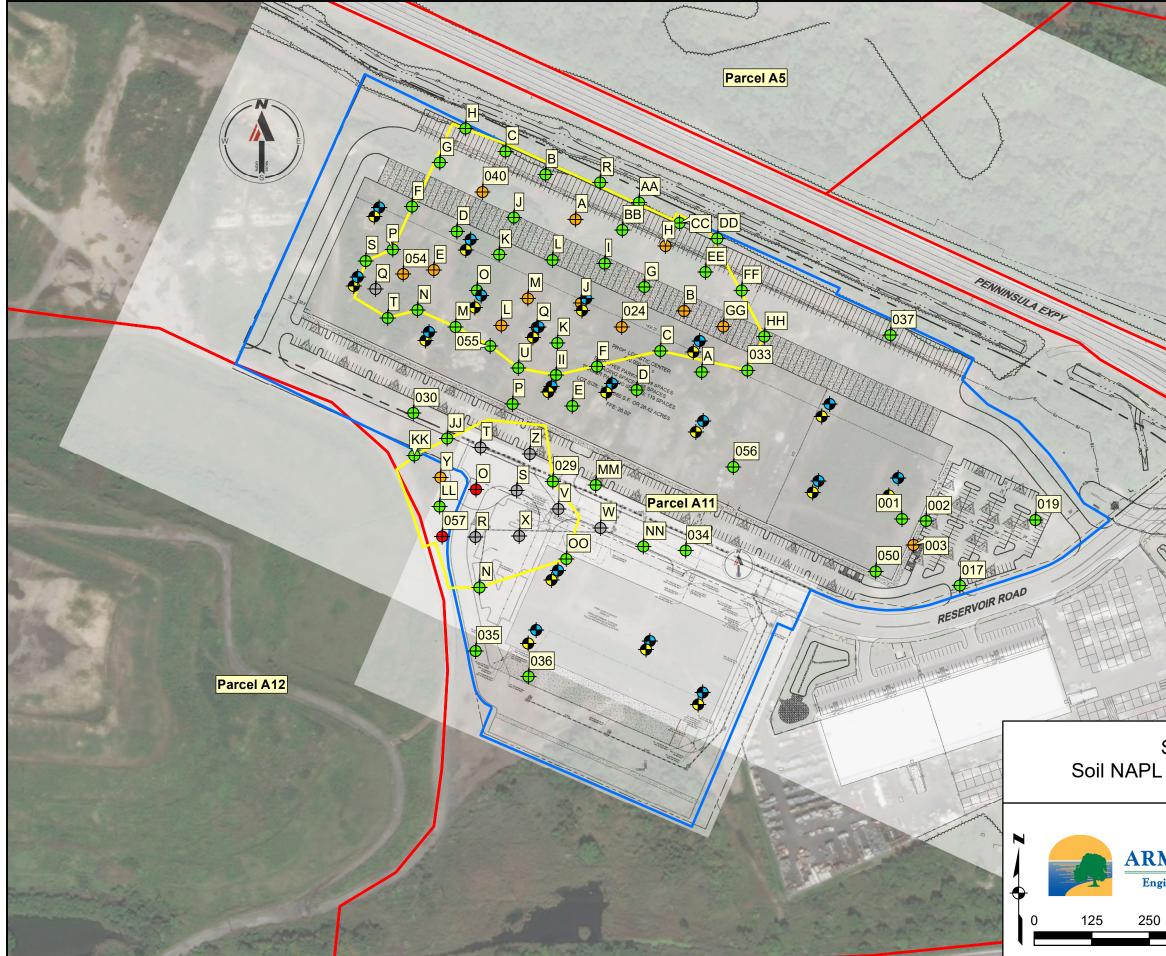
FIGURES







and the second	HET IS	and the second s			
Parcel A7					
$\square \bigcirc \bigcirc$	(I				
	🕈	Indoor Air Monitoring	Point		
and the second second	+	Sub-Slab Monitoring F	Point		
	+	Soil Boring Location (Inconclusive due to Refusal)			
Solo I	•	Soil Boring Location (^v NAPL)	with		
	•	Soil Boring Location (NAPL)	no		
	+	Soil Boring Location (Sheen; No NAPL)	with		
		Approx. Areas Contain NAPL or VOC/SVOC Impacts			
		A11-2 Site Boundary			
		Parcel Boundary	A. C. C.		
TH I	and and	THE STATE			
Sub-Parcel A11- L Conditions - 0 May 17, 2022		t bgs	Figure 3a		
		Tradepoint Atlant	tic		
M Group LLC gineers and Scientists		Sparrows Point	:		
500	Baltimore County, MD				
Feet		ARM Project 2101	0111		



	P.F.	and and the second s	
Parcel A7			
$\Box \circ \Box$			
	•	Indoor Air Monitoring F	Point
and the second s	•	Sub-Slab Monitoring F	Point
	¢	Soil Boring Location (Inconclusive due to Refusal)	
	÷	Soil Boring Location (NNAPL)	with
	\$	Soil Boring Location (r NAPL)	no
	0	Soil Boring Location (Sheen; no NAPL)	with
		Approx. Areas Contair NAPL or VOC/SVOC Impacts	ning
		A11-2 Site Boundary	
		Parcel Boundary	
THE CONTRACT OF THE	1	Carl Carl	Figure
Sub-Parcel A11-2 Conditions - Belo May 17, 2022	w 5	ft bgs	Figure 3b
		Tradepoint Atlant	ic
M Group LLC		Sparrows Point	
500		Baltimore County,	MD
Feet		ARM Project 21010	0111

ATTACHMENT 1

Attachment 1 - Sub-Parcel A11-2 TO-15 VOC List

1.1.1-Trichloroethane 1,1,2,2-Tetrachloroethane 1.1.2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,3-Trichlorobenzene 1,2,3-Trimethylbenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1.2-Dichloroethane 1,2-Dichloroethene (Total) 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane (p-Dioxane) 2-Butanone (MEK) 2-Hexanone 4-Methyl-2-pentanone (MIBK) Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane Dichlorodifluoromethane Ethylbenzene Hexachloro-1,3-butadiene Isopropylbenzene (Cumene) Methyl-tert-butyl ether Methylene Chloride Naphthalene Styrene Tetrachloroethene Toluene Trichloroethene Trichlorofluoromethane Vinyl chloride Xylene (Total) cis-1,2-Dichloroethene cis-1,3-Dichloropropene trans-1,2-Dichloroethene trans-1,3-Dichloropropene

"

"

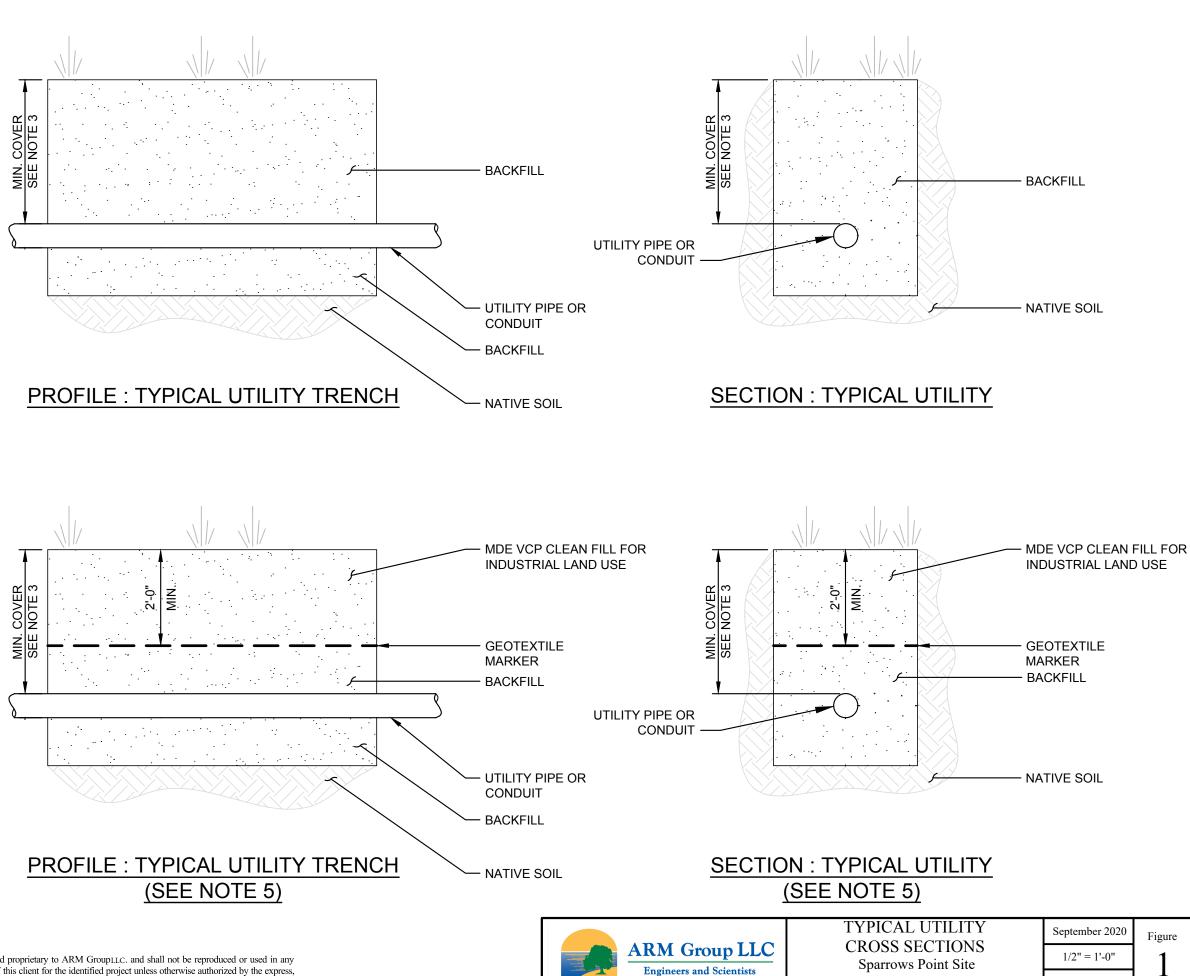
"

APPENDIX H

"

GENERAL NOTES:

- 1. ALL PIPES OR CONDUIT SHALL BE LEAK-PROOF AND WATERTIGHT. ALL JOINTS SHALL BE SEALED OR GASKETED.
- 2. ALL PIPES SHALL BE PROPERLY PLACED AND BEDDED TO PREVENT MISALIGNMENT OR LEAKAGE. PIPE BEDDING SHALL BE INSTALLED IN SUCH A MANNER AS TO MINIMIZE THE POTENTIAL FOR ACCUMULATION OF WATER AND CONCENTRATED INFILTRATION.
- 3. MINIMUM COVER ABOVE UTILITY SHALL BE BASED ON SPECIFIC UTILITY REQUIREMENTS.
- TRENCHES SHALL BE BACKFILLED WITH 4. BEDDING AND MATERIALS APPROVED BY MDE.
- 5. FOR ANY UTILITY SEGMENT WHICH GOES THROUGH AN AREA WHICH IS DESIGNATED TO RECEIVE A LANDSCAPED CAP, THE UPPER 2 FEET OF BACKFILL MUST MEET THE REQUIREMENTS OF MDE VCP CLEAN FILL FOR INDUSTRIAL LAND USE. IN THIS CASE THE MDE VCP CLEAN FILL WILL BE UNDERLAIN BY A GEOTEXTILE MARKER FABRIC. UTILITY SEGMENTS WHICH GO THROUGH AREAS WHICH DO NOT REQUIRE CAPPING OR ARE DESIGNATED TO RECEIVED A PAVED CAP WILL BE BACKFILLED WITH MATERIALS APPROVED BY MDE FOR THIS USE.



This drawing, its contents, and each component of this drawing are the property of and proprietary to ARM GroupLLC. and shall not be reproduced or used in any manner except for the purpose identified on the Title Block, and only by or on behalf of this client for the identified project unless otherwise authorized by the express, written consent of ARM GroupLLC.

TYPICAL UTILITY	September 2020	Figure
CROSS SECTIONS Sparrows Point Site	1/2" = 1'-0"	1
Tradepoint Atlantic	160443M	L

APPENDIX I

Utility Excavation NAPL Contingency Plan

Revision 4 – June 19, 2017

Introduction:

Proposed underground utilities and excavations necessary for the redevelopment of the Tradepoint Atlantic property may encounter areas of petroleum and/or Oil & Grease contamination in soil. The assessment of total petroleum hydrocarbons (TPH) diesel range organics (DRO), gasoline range organics (GRO), Oil & Grease, and/or non-aqueous phase liquid (NAPL) completed as part of each Phase II Investigation includes the following:

- Each soil boring with evidence of NAPL (i.e., containing a sheen or free oil in the soil core), whether located near utilities or not, is investigated via the installation of a piezometer to assess mobility to groundwater. If measureable NAPL is present in the initial piezometer, additional soil borings and shallow temporary piezometers are installed surrounding the initial detection to delineate the impacts. Each piezometer installed to delineate the presence or absence of NAPL is checked with an oil-water interface probe immediately after installation, 48 hours after installation, and at least 30 days after installation.
- TPH-DRO/GRO and Oil & Grease data, once received, are assessed in their magnitude and location respective to subsurface utilities, stormwater conveyances, and surface waters.
- Locations that exhibit elevated detections of TPH/Oil & Grease or evidence of NAPL, that are within reasonable proximity (i.e. 25 feet) to subsurface utilities or stormwater conveyances and/or within reasonable proximity (i.e. 100 feet) to surface waters, are identified for further delineation and selective removal (if warranted).

Any NAPL identified in soil borings or piezometers during the Phase II Investigation would be noted on relevant logs and identified in Response and Development Work Plans for construction planning purposes. Despite these planning efforts, unidentified pockets of contamination (including NAPL) may still be encountered during construction. This contingency plan provides the procedures to be utilized during construction work to properly address response and construction techniques if any materials impacted with NAPL are encountered.

Objectives:

The purpose of this plan is to describe procedures to be followed in the event that NAPL is encountered in utility trenches or other excavations during development of the Tradepoint Atlantic property. The specific objectives of this plan and the procedures outlined herein are:

- 1. To ensure identification and proper management of Oil & Grease and petroleumcontaminated soils.
- 2. To ensure proper worker protection for working in areas of Oil & Grease and petroleum contamination.
- 3. To ensure that the installation of new utilities does not create new preferential flow paths for the migration of free-phase hydrocarbons (Oil & Grease, TPH-DRO/GRO, etc.) or soil vapors.

Identification of Oil & Grease and Petroleum Contaminated Soil:

An Environmental Professional (EP) will be on-site to determine if soils show evidence of the presence of Oil & Grease or TPH present as NAPL during installation of utility trenches or other excavation activities completed during development. Oil & Grease or petroleum-contaminated soils can be identified by the presence of free oil, oil staining, a petroleum odor, or any combination of these conditions. Free oil (NAPL) is liquid oil which could potentially be drained or otherwise extracted from the soil, and is the focus of this contingency plan, although severe staining accompanied by odors should be addressed via the same contingency measures provided herein (based on the judgement of the EP). The appearance of oil staining is not always consistent, but varies depending on the nature of the oil, the soil type, and the age of the release. Staining associated with old petroleum contamination often has a greenish hue, but may also be brown or black. The olfactory sense is the most sensitive instrument for identifying petroleum contamination in the field. Therefore, a petroleum odor may be noted although there is no visible sign of oil or staining. In some instances, decaying organic matter can produce an odor similar to petroleum, but this is rare.

If NAPL is encountered during construction, the extent of impacts shall be delineated by excavating trenches or installing four soil borings (two in each direction) perpendicular to the utility alignment or excavation to examine the soil for physical evidence of NAPL. Perpendicular transects will be investigated every 50 feet along the section of the utility trench or excavation where there is physical evidence of NAPL. Each transect will extend to a distance of 10 feet from the edge of the utility trench or excavation. This represents the maximum distance which would require mandatory excavation to mitigate potential migration risks (see below).

NAPL delineation will be guided primarily by screening observations from the perpendicular borings or trenches, and samples will be collected to test for extractable Oil & Grease or petroleum-contaminated soil using the Oil Sticks[™] test kit. This test kit provides a determination of whether hydrocarbons are present in soil and extractable (i.e. could mobilize as a NAPL). Oil Sticks[™] change from a pale blue to a deep blue color when they come in contact with free product. This instantaneous change in color occurs even when miniscule amounts of product come in contact with the strip. The sensitivity of Oil Sticks[™] to determine the presence/absence of oil is reported by the manufacturer to be about 1,000 to 2,000 mg/kg. The

field test is performed by placing approximately 3 tablespoons of soil in a clean sample cup and adding enough water to cover the sample. After stirring the sample and waiting ~1 minute, the Oil SticksTM test strip should be swished through the water, making sure to touch the strip to the sides of the cup where product may collect at the interface (meniscus) between the cup, water, and air. If the strip turns deep blue, or deep blue spots appear, oil or hydrocarbon is present. However, the MDE has observed that the Oil SticksTM method may produce inconsistent results. Therefore, documentation of all screening methods is necessary during boring/trenching work. This documentation shall include an accurate record of visual and olfactory screening, along with a narrative with photographs. Field screening will be aided by photoionization detector (PID) results, and Oil SticksTM samples should be biased to target elevated PID readings, if any. The agencies have requested that all soil samples prepared for the Oil SticksTM field test be photographed for evidence of sheen/residue on the cup sides. Detailed records are required to be submitted with the project-specific Completion Report.

If petroleum or Oil & Grease impacts are identified in Site soils based on use of the Oil SticksTM test kit or other field screening methods, disposal requirements will be determined using the quantitative PetroFLAGTM hydrocarbon analysis system or fixed laboratory analysis (see following section). The PetroFLAGTM hydrocarbon analysis system is a broad spectrum field test kit suitable for TPH contamination regardless of the source or state of degradation (Dexsil Corporation). PetroFLAGTM field test kits do not distinguish between aromatic and aliphatic hydrocarbons, but quantify all fuels, oils, and greases as TPH. Dilutions can be used to determine concentrations of TPH/Oil & Grease above the normal calibration range. Dexsil notes that positive results for TPH may occur if naturally occurring waxes and oils, such as vegetable oils, are present in the sample. Additional detail regarding the procedure for the PetroFLAGTM kit is given in **Attachment 1**.

Soil Excavation, Staging, Sampling and Disposal:

The EP will monitor all utility trenching and excavation activities for signs of potential contamination. In particular, soils will be monitored with a hand-held PID for potential VOCs, and will also be visually inspected for the presence of staining, petroleum waste materials, or other indications of NAPL contamination that may be different than what was already characterized. Excavated material that is visibly stained or that exhibits a sustained PID reading of greater than 10 ppm will be segregated and containerized or placed in a stockpile on polyethylene or impervious surface until the material can be analyzed using the PetroFLAGTM test kit to characterize the material for appropriate disposal. If a PetroFLAGTM test kit is not available to the contractor, or if the contractor prefers to use fixed laboratory analysis, samples may be characterized via submittal to a laboratory for TPH/Oil & Grease analysis. However, any excavated material containing NAPL (i.e., containing free oil) cannot be characterized for waste disposal using the PetroFLAGTM test kit and must instead be characterized via fixed laboratory analysis, as described in the final paragraph of this section. In addition, any hydrocarbon contaminated soil discovered during construction activities that was not previously

characterized must also be analyzed for PCBs prior to removal and transport to an appropriate disposal facility. If excavated and stockpiled, such materials will be covered with a plastic tarp so that the entire stockpile is encapsulated, and anchored to prevent the elements from affecting the integrity of the containment. The MDE will be notified if such materials are encountered during utility work.

Soil exhibiting physical evidence of NAPL contamination or elevated TPH/Oil & Grease with detections in the low percentage range, which is located within 10 feet of a proposed new utility or subsurface structure (i.e., foundation, sump, electrical vault, underground tank, etc.), will be excavated and segregated for disposal at the on-site nonhazardous landfill (Greys Landfill) or an off-site facility pending the completion of any required PCB analytical testing. Impacted soil which is located greater than 10 feet away from the proposed utility or subsurface structure may be left in place and undisturbed. The extent of the excavation will be determined in the field following visual/olfactory screening supplemented by the PID and Oil SticksTM test kit, but soil disposal requirements will be determined with the PetroFLAGTM test kit (since the Oil SticksTM method is not quantitative) or via fixed laboratory analysis for TPH/Oil & Grease (if preferred by the contractor or if the PetroFLAGTM test kit is unavailable to the contractor).

Any recovered NAPL will be collected for off-site disposal. As required by the appropriate and MDE approved facility, samples impacted by NAPL (i.e., containing free oil) will be collected for profiling/waste characterization and submitted to a fixed laboratory, as mentioned above, for the following analyses: metals, VOCs, TPH-DRO/GRO, and/or additional analysis required by the selected disposal facility. Upon receipt of any additional characterization analytical results, the MDE will be notified of the proposed disposal facility. Non-impacted material with no evidence of NAPL (i.e. soils that may contain measureable concentrations of TPH/Oil & Grease but below percentage levels) may be placed on the Site in areas to be paved or capped as long as all other requirements specified in the Response and Development Work Plan (or similar governing document) are met.

Initial Reporting:

If evidence of NAPL in soil or groundwater is encountered during excavation, it will be reported to the MDE within two hours. Information regarding the location and characteristics of any NAPL contaminated soil will be documented as follows:

- Location (exact stationing);
- Extent of contamination (horizontally and vertically prepare a sketch including dimensions);
- Relative degree of contamination (i.e. free oil with strong odor vs. staining); and
- Visual documentation (take photographs and complete a photograph log)

Utility Installations in Impacted Areas:

Underground piping or conduits installed through areas of Oil & Grease or petroleum contamination shall be leak proof and water tight. All joints will be adequately sealed or gasketed, and pipes or conduits will be properly bedded and placed to prevent leakage. All trench backfill will meet the MDE definition of clean fill, or otherwise be approved by the MDE. Pipe bedding will be installed to minimize the potential for accumulation of water and concentrated infiltration. This can be achieved by using a relatively small amount of low-permeability pipe bedding; open-graded stone will be avoided or only used in thicknesses of 6 inches or less. Bedding must be properly placed and compacted below the haunches of the pipe. Clay, flowable fill, or concrete plugs will be placed every 100 feet across any permeable bedding to minimize the preferential flow and concentration of water along the bedding of such utilities.

If required, each trench plug will be constructed with a 2-foot-thick clay plug or 1-foot-thick flowable fill or concrete plug, perpendicular to the pipe, which extends at least 1 foot in all directions beyond the permeable pipe bedding. The plug acts as an anti-seep collar, and will extend above the top of the pipe. Installation of each trench plug will follow the completion of the trench excavation, installation of granular pipe bedding (because dense-graded aggregate or soil or other pipe bedding is difficult to properly compact below the haunches of the pipe), and seating of the pipe. The trench plug will then be installed by digging out a 1-foot trench below and around the pipe corridor, and placing clay, flowable fill, or concrete to construct the plug. A specification drawing for installation of the trench plug has been provided as **Figure 1**.

Attachment 1 - PetroFLAGTM Procedure

PetroFLAGTM field test kits use a proprietary turbidimetric reaction to determine the TPH concentration of solvent extracted samples (USEPA). Calibration standards provided with the unit are used to perform a two-point calibration for the PetroFLAGTM. A blank and a 1,000 ppm standard are run by the analyzer unit to create an internal calibration curve.

Analysis of a soil sample is performed using three simple steps: extraction, filtration, and analysis. The PetroFLAGTM analysis is performed as follows:

- Place a 10 gram soil sample in a test tube.
- Add extraction solvent to the tube.
- Shake the tube intermittently for four minutes.
- Filter the extract into a vial that contains development solution
- Allow the solution to react for 10 minutes.

The filtration step is important because the PetroFLAG[™] analyzer measures the turbidity or "optical density" of the final solution. Approximately 25 samples can be analyzed per hour. The vial of developed solution is placed in the meter, and the instrument produces a quantitative reading that reveals the concentration of hydrocarbons in the soil sample. The PetroFLAG[™] method quantifies all fuels, oils, and greases as TPH between 15 and 2000 ppm (Dexsil Corporation). A 10x dilution of the filtered extraction solvent will be completed to allow for quantification of soil concentrations in excess of 10,000 ppm. The specially designed PetroFLAG[™] analyzer allows the user to select, in the field, the response factor that is appropriate for the suspected contaminant at each site. Vegetable-based oils have been shown to exhibit a response factor of 18% (EPA Method 9074). Using the selected response factor, the analyzer compensates for the relative response of each analyte and displays the correct concentration in parts per million (ppm).

References:

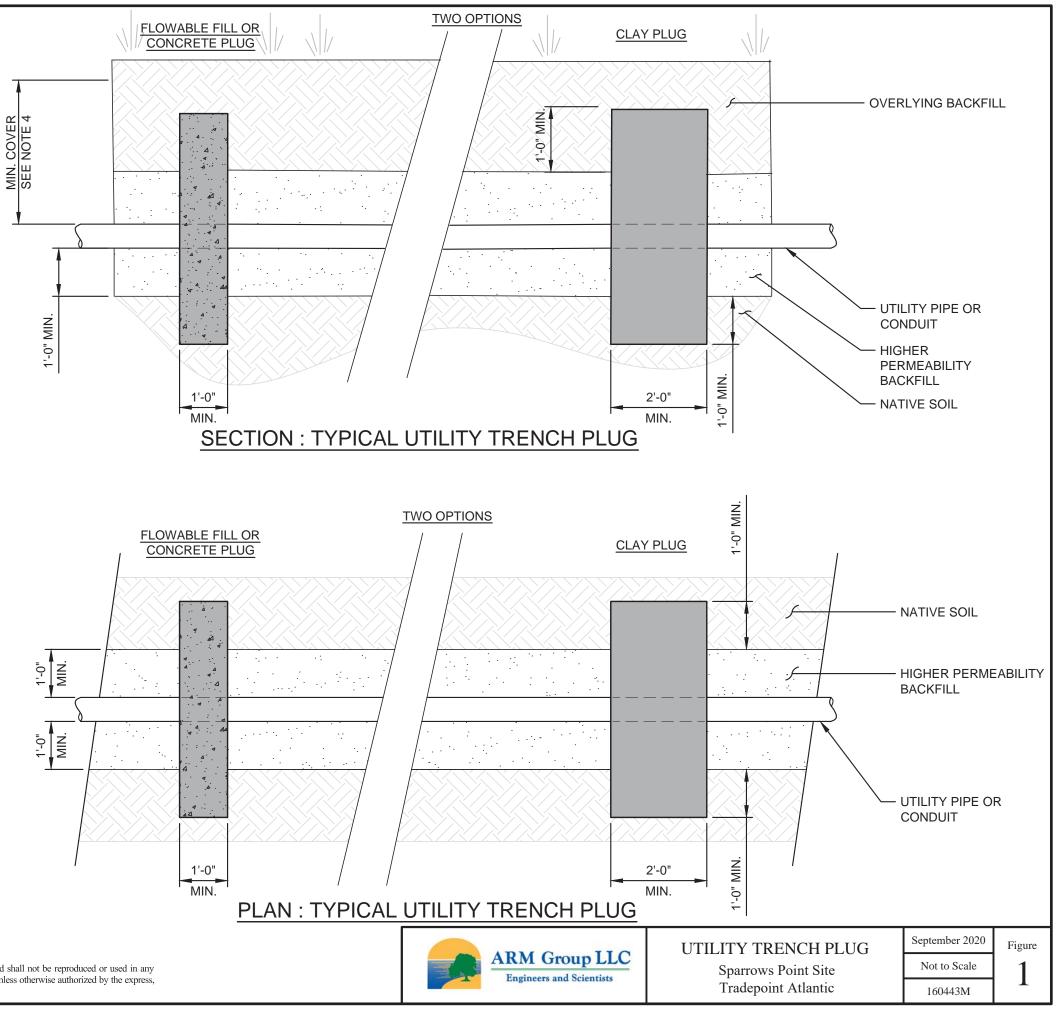
U.S. Environmental Protection Agency (EPA). Contaminated Site Clean-up Information (Clu-IN): Test Kits. Office of Superfund Remediation and Technology Innovation. <u>http://www.clu-in.net/characterization/technologies/color.cfm</u>

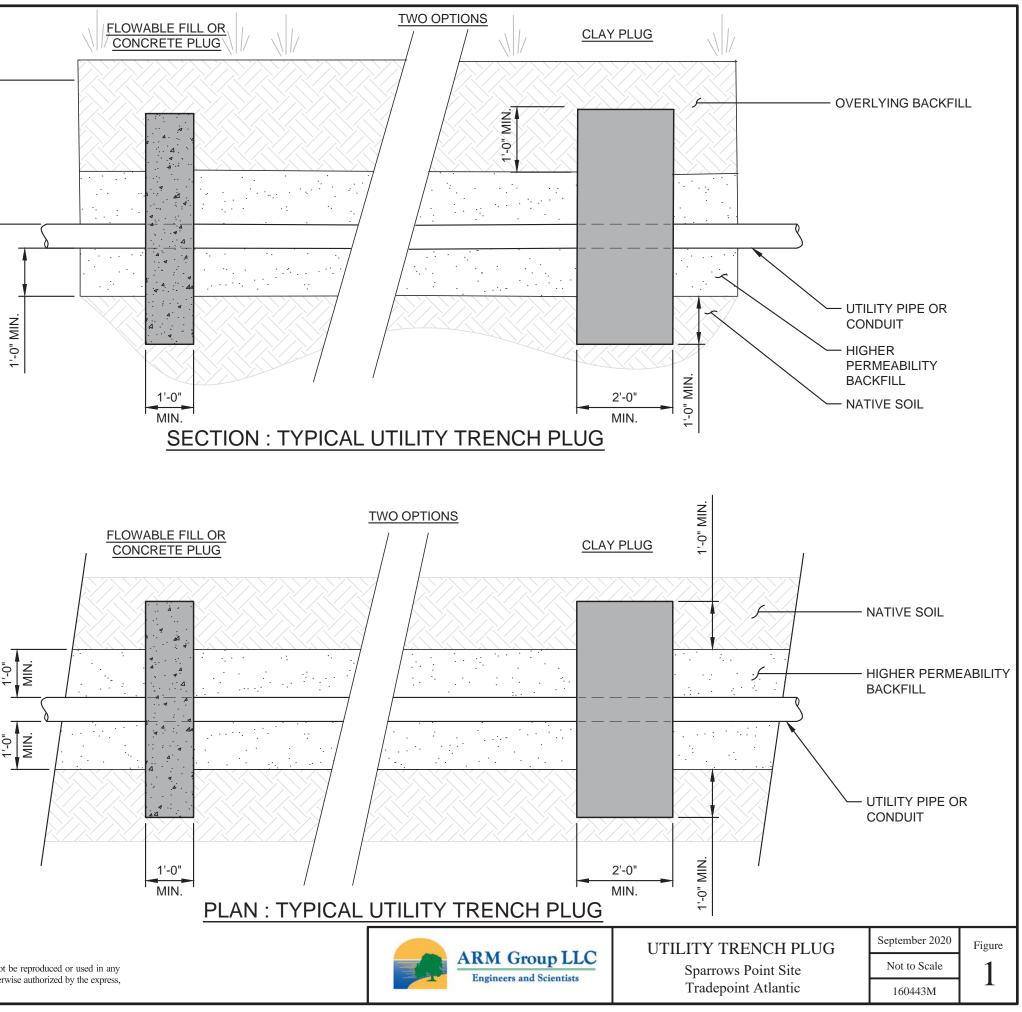
Dexsil Corporation. 2016. PetroFLAG Analyzer System (PF-MTR-01). http://www.dexsil.com/products/detail.php?product_id=23

EPA SW-846 Method Number 9074 - Turbidimetric Screening Procedure for Total Recoverable Hydrocarbons in Soil

GENERAL NOTES:

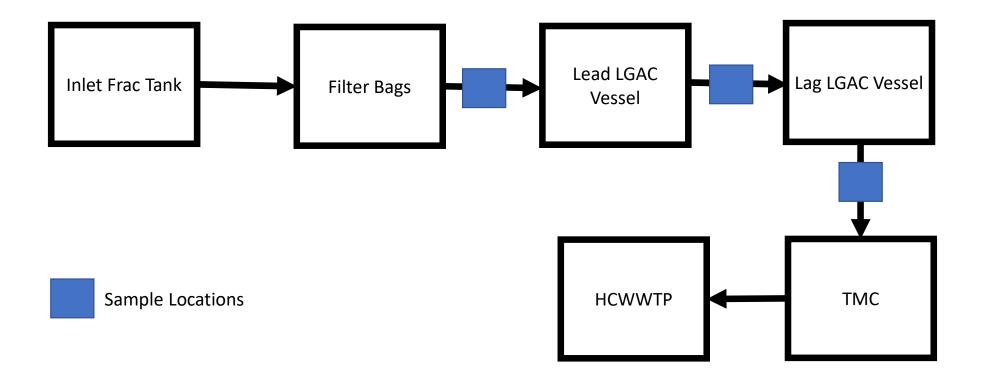
- 1. ALL PIPES OR CONDUIT PASSING THROUGH AREAS OF PETROLEUM CONTAMINATION SHALL BE LEAK-PROOF AND WATERTIGHT. ALL JOINTS SHALL BE SEALED OR GASKETED.
- 2. ALL PIPES SHALL BE PROPERLY PLACED AND BEDDED TO PREVENT MISALIGNMENT OR LEAKAGE. PIPE BEDDING SHALL BE INSTALLED IN SUCH A MANNER AS TO MINIMIZE THE POTENTIAL FOR ACCUMULATION OF WATER AND CONCENTRATED INFILTRATION.
- 3. ANTI-SEEP COLLARS FROM THE PIPE MANUFACTURER, THAT ARE PRODUCED SPECIFICALLY FOR THE PURPOSE OF PREVENTING SEEPAGE AROUND THE PIPE, ARE ACCEPTABLE IF INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND ONLY WITH PRIOR APPROVAL BY TPA.
- 4. MINIMUM COVER ABOVE UTILITY SHALL BE BASED ON SPECIFIC UTILITY REQUIREMENTS.
- 5. TRENCHES SHALL BE BACKFILLED WITH BEDDING AND MATERIALS APPROVED BY MDE.
- 6. FOR ADDITIONAL REQUIREMENTS, INCLUDING THE USE OF MDE VCP CLEAN FILL FOR INDUSTRIAL LAND USE AND INSTALLATION OF GEOTEXTILE MARKER FABRIC, REFER TO NOTE 5 ON THE TYPICAL UTILITY CROSS SECTIONS.
- 7. ALL UTILITIES INSTALLED THROUGH AREAS CONTAINING NAPL OR ELEVATED CHEMICAL IMPACTS WITH THE POTENTIAL TO TRANSMIT VAPORS ALONG PREFERENTIAL FLOW PATHWAYS SHALL BE EITHER 1) BACKFILLED WITH LOW PERMEABILITY BACKFILL MATERIAL (LESS THAN OR EQUAL TO THE PERMEABILITY OF THE EXISTING SUBGRADE), OR 2) INSTALLED WITH TRENCH PLUGS ALONG THE ALIGNMENT IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN AND THE FOLLOWING NOTES:
 - A.) UTILITY TRENCH PLUGS SHALL BE INSTALLED AT 100-FOOT (MAX.) INTERVALS THROUGH ALL AREAS OF NAPL CONTAMINATION.
 - B.) UTILITY TRENCH PLUGS SHALL EXTEND A MINIMUM OF 1-FOOT IN ALL DIRECTIONS BEYOND ANY HIGHER PERMEABILITY BACKFILL MATERIALS (I.E., MATERIALS EXCEEDING THE PERMEABILITY OF THE EXISTING SUBGRADE).





This drawing, its contents, and each component of this drawing are the property of and proprietary to ARM GroupLLC. and shall not be reproduced or used in any manner except for the purpose identified on the Title Block, and only by or on behalf of this client for the identified project unless otherwise authorized by the express, written consent of ARM GroupLLC.

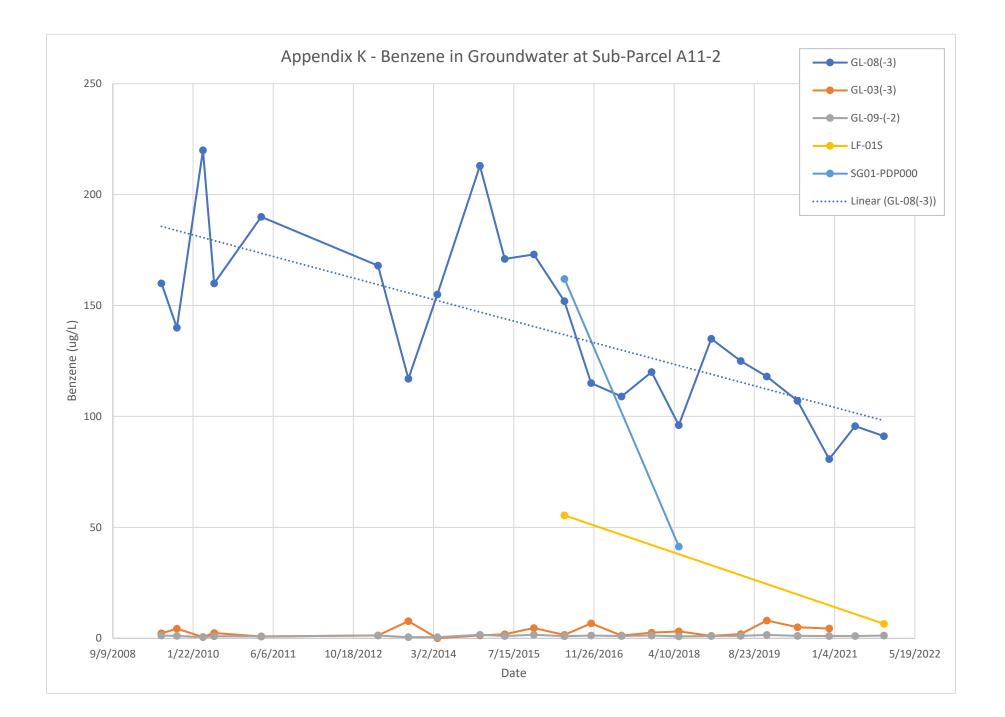
APPENDIX J

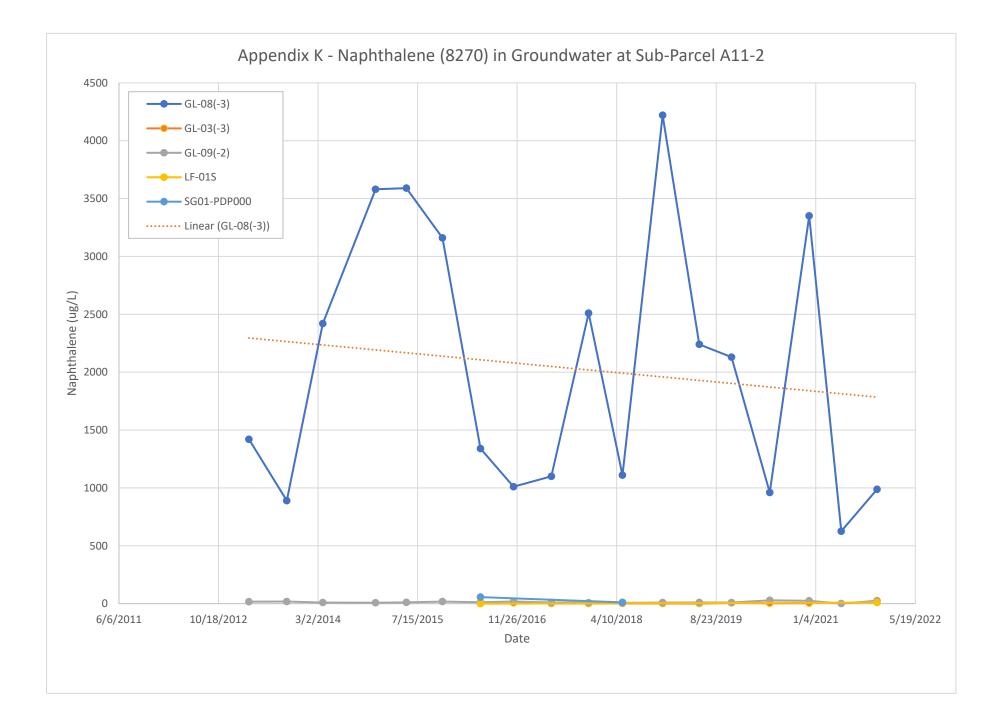


Prepared by:



APPENDIX K





Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	GL-	03 (-3)		ug/L									
1,1,1,2-Tetrachloroethane	ND	ND	ND	NS	NS								
1,1,1-Trichloroethane	ND	ND	ND	NS	NS								
1,1,2,2-Tetrachloroethane	ND	ND	ND	NS	NS								
1,1,2-Trichloroethane	ND	ND	ND	NS	NS								
1,1-Dichloroethane	ND	ND	ND	NS	NS								
1,1-Dichloroethene	ND	ND	ND	NS	NS								
1,1-Dichloropropene	ND	ND	ND	NS	NS								
1,2,3-Trichlorobenzene	ND	ND	ND	NS	NS								
1,2,3-Trichloropropane	ND	ND	ND	NS	NS								
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS
1,2,4-Trimethylbenzene	ND	ND	ND	NS	NS								
1,2-Dibromo-3-chloropropane	ND	ND	ND	NS	NS								
1,2-Dibromoethane	ND	ND	ND	NS	NS								
1,2-Dichlorobenzene	ND	ND	ND	NS	NS								
1,2-Dichloroethane	ND	ND	ND	NS	NS								
1,2-Dichloropropane	ND	ND	ND	NS	NS								
1,3,5-Trimethylbenzene	ND	ND	ND	NS	NS								
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS
1,3-Dichloropropane	ND	ND	ND	NS	NS								
1,4-Dichlorobenzene	ND	ND	ND	NS	NS								
2,2-Dichloropropane	ND	ND	ND	NS	NS								
2-Butanone	ND	ND	ND	NS	NS								
2-Chloroethylvinyl ether	ND	ND	ND	NS	NS								
2-Chlorotoluene	ND	ND	ND	NS	NS								
2-Hexanone	ND	ND	ND	NS	NS								
4-Chlorotoluene	ND	ND	ND	NS	NS								
4-Methyl-2-pentanone	ND	ND	ND	NS	NS								
Acetone	ND	ND	ND	19.8	5.7 J	5 J	6.8 J	6.7 J	ND	ND	ND	NS	NS

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Acetonitrile	ND	ND	ND	NS	NS								
Acrolein	ND	ND	ND	NS	NS								
Acrylonitrile	ND	ND	ND	NS	NS								
Allyl chloride	ND	ND	ND	NS	NS								
Benzene	4.6	1.5	6.7	1.2	2.5	3.1	1.1	1.9	8	5	4.4	NS	NS
Bromobenzene	ND	ND	ND	NS	NS								
Bromochloromethane	ND	ND	ND	NS	NS								
Bromodichloromethane	ND	ND	ND	NS	NS								
Bromoform	ND	ND	ND	NS	NS								
Bromomethane	ND	ND	ND	NS	NS								
Carbon Disulfide	ND	ND	ND	NS	NS								
Carbon Tetrachloride	ND	ND	ND	NS	NS								
Chlorobenzene	ND	ND	ND	NS	NS								
Chloroethane	ND	ND	ND	NS	NS								
Chloroform	ND	ND	ND	NS	NS								
Chloromethane	ND	ND	ND	NS	NS								
Chloroprene	ND	ND	ND	NS	NS								
cis-1,2-Dichloroethene	0.49 J	ND	ND	NS	NS								
cis-1,3-Dichloropropene	ND	ND	ND	NS	NS								
Dibromochloromethane	ND	ND	ND	NS	NS								
Dibromomethane	ND	ND	ND	NS	NS								
Dichlorodifluoromethane	ND	ND	ND	NS	NS								
Ethyl methacrylate	ND	ND	ND	NS	NS								
Ethylbenzene	ND	ND	0.47 J	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Iodomethane	ND	ND	ND	ND	3.1 CL	ND	ND	ND	ND	ND	ND	NS	NS
Isopropylbenzene (Cumene)	ND	ND	ND	NS	NS								
m&p-Xylene	ND	ND	1.5 J	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Methacrylonitrile	ND	ND	ND	NS	NS								
Methyl methacrylate	ND	ND	ND	NS	NS								
Methyl tertiary-butyl ether	ND	ND	ND	NS	NS								

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Methylene Chloride	ND	ND	ND	NS	NS								
n-Butylbenzene	ND	ND	ND	NS	NS								
n-Propylbenzene	ND	ND	ND	NS	NS								
o-Xylene	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 J	ND	NS	NS
Propionitrile	ND	ND	ND	NS	NS								
sec-Butylbenzene	ND	ND	ND	NS	NS								
Styrene	ND	ND	ND	NS	NS								
tert-Butylbenzene	ND	ND	ND	NS	NS								
Tetrachloroethene	ND	ND	ND	NS	NS								
Toluene	ND	ND	0.49 J	ND	0.27 J	ND	ND	ND	0.5 J	ND	ND	NS	NS
trans-1,2-Dichloroethene	ND	ND	ND	NS	NS								
trans-1,3-Dichloropropene	ND	ND	ND	NS	NS								
trans-1,4-Dichloro-2-butene	ND	ND	ND	NS	NS								
Trichloroethene	ND	ND	ND	NS	NS								
Trichlorofluoromethane	ND	ND	ND	NS	NS								
Vinyl Acetate	ND	ND	ND	NS	NS								
Vinyl Chloride	ND	ND	ND	NS	NS								
Xylenes	ND	ND	2.2 J	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	GL-	-08 (-3)		ug/L									
1,1,1,2-Tetrachloroethane	ND	ND	ND										
1,1,1-Trichloroethane	ND	ND	ND										
1,1,2,2-Tetrachloroethane	ND	ND	ND										
1,1,2-Trichloroethane	ND	ND	ND										
1,1-Dichloroethane	ND	1.4	1.2	ND	ND								
1,1-Dichloroethene	ND	ND	ND										
1,1-Dichloropropene	ND	ND	ND										
1,2,3-Trichlorobenzene	ND	ND	ND										
1,2,3-Trichloropropane	ND	ND	ND										
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND
1,2,4-Trimethylbenzene	39.9	42.8	21.6	17	22.1	16.7	46.5	27.9	23.4	19.8	32.5	13.8	15.4
1,2-Dibromo-3-chloropropane	ND	ND	ND										
1,2-Dibromoethane	ND	ND	ND										
1,2-Dichlorobenzene	ND	ND	ND										
1,2-Dichloroethane	ND	ND	ND										
1,2-Dichloropropane	ND	ND	ND										
1,3,5-Trimethylbenzene	17.5	18.6	9.4	8.1	10.2	7.5	21.6	12.8	11	8.7	15.2	6.1	5.9
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND										
1,4-Dichlorobenzene	ND	ND	ND										
2,2-Dichloropropane	ND	ND	ND										
2-Butanone	ND	ND	ND										
2-Chloroethylvinyl ether	ND	ND	ND										
2-Chlorotoluene	ND	ND	ND										
2-Hexanone	ND	ND	ND										
4-Chlorotoluene	ND	ND	ND										
4-Methyl-2-pentanone	ND	ND	ND										
Acetone	ND	7.8 J	ND	68.8	ND	25.7 J	26.2 J	25 J	ND	ND	219	ND	ND

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Acetonitrile	ND	ND	ND										
Acrolein	ND	ND	ND										
Acrylonitrile	ND	ND	ND										
Allyl chloride	ND	ND	ND										
Benzene	173	152	115	109	120	96.1	135	125	118	107	80.8	95.6	91.1
Bromobenzene	ND	ND	ND										
Bromochloromethane	ND	ND	ND										
Bromodichloromethane	ND	ND	ND										
Bromoform	ND	ND	ND										
Bromomethane	ND	ND	ND										
Carbon Disulfide	ND	ND	1.6	ND	ND								
Carbon Tetrachloride	ND	ND	ND										
Chlorobenzene	ND	ND	ND										
Chloroethane	ND	ND	ND										
Chloroform	ND	ND	ND	ND	1.2 J	3.6 J	ND	ND	ND	ND	ND	5 J	ND
Chloromethane	ND	ND	ND										
Chloroprene	ND	ND	ND										
cis-1,2-Dichloroethene	ND	ND	ND										
cis-1,3-Dichloropropene	ND	ND	ND										
Dibromochloromethane	ND	ND	ND										
Dibromomethane	ND	ND	ND										
Dichlorodifluoromethane	ND	ND	ND										
Ethyl methacrylate	ND	ND	ND										
Ethylbenzene	9.7	9.2	4.6	4.6 J	7.1	3.7 J	10.7	6.7	5.6	3.3 J	7	3 J	4.7 J
Iodomethane	ND	ND	6.1 J										
Isopropylbenzene (Cumene)	ND	5.7	0.96 J	ND	ND	ND	2 J	1.2 J	ND	ND	ND	ND	ND
m&p-Xylene	131	135	48.4	46.1	80.5	46.1	146	80.9	74.1	43.4	90.1	35.3	37.3
Methacrylonitrile	ND	ND	ND										
Methyl methacrylate	ND	ND	ND										
Methyl tertiary-butyl ether	ND	ND	ND										

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Methylene Chloride	ND	ND	ND										
n-Butylbenzene	ND	ND	ND										
n-Propylbenzene	1.7	6	1.6	ND	1.4 J	ND	2.9 J	1.6 J	ND	ND	ND	ND	ND
o-Xylene	57.8	56.6	23.1	24.4	36.9	22.8	62.4	39.1	33.3	22.1	38.7	17.6	19.5
p-Isopropyltoluene	ND	ND	ND										
Propionitrile	ND	ND	ND										
sec-Butylbenzene	ND	ND	ND										
Styrene	7.4	6.4	1.7	ND	3.8 J	ND	6.1	3.1 J	3.2 J	ND	3.8 J	1.7 J	ND
tert-Butylbenzene	ND	ND	ND										
Tetrachloroethene	ND	0.52 J	ND	ND	ND								
Toluene	749	613	250	294	406	261	554	385	349	239	358	204	184
trans-1,2-Dichloroethene	ND	ND	ND										
trans-1,3-Dichloropropene	ND	ND	ND										
trans-1,4-Dichloro-2-butene	ND	ND	ND										
Trichloroethene	ND	ND	ND										
Trichlorofluoromethane	ND	ND	ND										
Vinyl Acetate	ND	ND	ND										
Vinyl Chloride	ND	ND	ND										
Xylenes	189	192	71.6	70.5	117	68.9	209	120	107	65.6	129	52.9	56.8

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	GL-	09 (-2)		ug/L									
1,1,1,2-Tetrachloroethane	ND	ND	ND										
1,1,1-Trichloroethane	ND	ND	ND										
1,1,2,2-Tetrachloroethane	ND	ND	ND										
1,1,2-Trichloroethane	ND	ND	ND										
1,1-Dichloroethane	ND	ND	ND										
1,1-Dichloroethene	ND	ND	ND										
1,1-Dichloropropene	ND	ND	ND										
1,2,3-Trichlorobenzene	ND	ND	ND										
1,2,3-Trichloropropane	ND	ND	ND										
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.1	2	3.9	2.2	2.1	1.7	2	2.1	3.2	2.9	2.2	ND	1.8
1,2-Dibromo-3-chloropropane	ND	ND	ND										
1,2-Dibromoethane	ND	ND	ND										
1,2-Dichlorobenzene	ND	ND	ND										
1,2-Dichloroethane	ND	ND	ND										
1,2-Dichloropropane	ND	ND	ND										
1,3,5-Trimethylbenzene	1.7	ND	1.7	1.1	1.1	0.8 J	0.93 J	1.1	1.6	1.5	1.1	0.78 J	0.92 J
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND										
1,4-Dichlorobenzene	ND	ND	ND										
2,2-Dichloropropane	ND	ND	ND										
2-Butanone	30.4	12	70.5	18	43	11.7	43.7	17.9	41.2	13.3	44.4	27.6	21.6
2-Chloroethylvinyl ether	ND	ND	ND										
2-Chlorotoluene	ND	ND	ND										
2-Hexanone	ND	ND	ND	1.1 J	ND								
4-Chlorotoluene	ND	ND	ND										
4-Methyl-2-pentanone	ND	ND	7.3 J	ND	5.7 J	ND	ND	ND	5 J	ND	5.1 J	4.1 J	ND
Acetone	195	83.4	556	130	269	84.4	326	105	251	95.8	305	170	130

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Acetonitrile	ND	ND	ND	7.3 J	ND								
Acrolein	ND	ND	ND										
Acrylonitrile	ND	ND	ND										
Allyl chloride	ND	ND	ND										
Benzene	1.6	0.95 J	1.2	0.99 J	1.2	0.86 J	1	1.1	1.5	1.1	1	0.99 J	1.2
Bromobenzene	ND	ND	ND	NS	ND								
Bromochloromethane	ND	ND	ND										
Bromodichloromethane	ND	ND	ND										
Bromoform	ND	ND	ND										
Bromomethane	ND	ND	0.74 J	ND	ND								
Carbon Disulfide	1.7	1.2	ND	ND	1.9	ND	2.1	1.4	1.2	ND	1.3	1.5	0.65 J
Carbon Tetrachloride	ND	ND	ND										
Chlorobenzene	ND	ND	ND										
Chloroethane	3.5	ND	ND										
Chloroform	ND	ND	ND										
Chloromethane	ND	ND	ND										
Chloroprene	ND	ND	ND										
cis-1,2-Dichloroethene	ND	ND	ND										
cis-1,3-Dichloropropene	ND	ND	ND										
Dibromochloromethane	ND	ND	ND										
Dibromomethane	ND	ND	ND										
Dichlorodifluoromethane	ND	ND	ND										
Ethyl methacrylate	ND	ND	ND										
Ethylbenzene	ND	ND	0.69 J	ND	0.33 J	ND	0.34 J	ND	ND	ND	ND	ND	0.41 J
Iodomethane	ND	ND	ND										
Isopropylbenzene (Cumene)	ND	ND	ND										
m&p-Xylene	ND	ND	1.2 J	ND	0.85 J	ND	0.75 J	0.69 J	ND	0.98 J	ND	ND	ND
Methacrylonitrile	ND	ND	ND										
Methyl methacrylate	ND	ND	ND										
Methyl tertiary-butyl ether	ND	ND	ND										

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Methylene Chloride	ND	ND	ND										
n-Butylbenzene	ND	ND	ND										
n-Propylbenzene	ND	ND	ND										
o-Xylene	ND	ND	0.9 J	ND	0.79 J	ND	0.69 J	0.83 J	1.1	1	ND	0.72 J	0.83 J
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	ND
Propionitrile	ND	ND	ND										
sec-Butylbenzene	ND	ND	ND										
Styrene	ND	ND	ND										
tert-Butylbenzene	ND	ND	ND										
Tetrachloroethene	ND	ND	ND										
Toluene	3.8	2.8	3.2	2.3	3.3	2.2	3	3.2	4.1	3.1	3.4	2.7	3.4
trans-1,2-Dichloroethene	ND	ND	ND										
trans-1,3-Dichloropropene	ND	ND	ND										
trans-1,4-Dichloro-2-butene	ND	ND	ND										
Trichloroethene	ND	ND	ND										
Trichlorofluoromethane	ND	ND	ND										
Vinyl Acetate	ND	ND	ND										
Vinyl Chloride	ND	ND	ND										
Xylenes	ND	ND	2.1 J	ND	1.6 J	ND	1.4 J	1.5 J	ND	ND	ND	1.5 J	ND

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	L	.F-01		ug/L									
1,1,1,2-Tetrachloroethane	NS	NS	ND										
1,1,1-Trichloroethane	NS	NS	ND										
1,1,2,2-Tetrachloroethane	NS	NS	ND										
1,1,2-Trichloroethane	NS	NS	ND										
1,1-Dichloroethane	NS	NS	ND										
1,1-Dichloroethene	NS	NS	ND										
1,1-Dichloropropene	NS	NS	ND										
1,2,3-Trichlorobenzene	NS	NS	ND										
1,2,3-Trichloropropane	NS	NS	ND										
1,2,4-Trichlorobenzene	NS	NS	ND										
1,2,4-Trimethylbenzene	NS	NS	ND										
1,2-Dibromo-3-chloropropane	NS	NS	ND										
1,2-Dibromoethane	NS	NS	ND										
1,2-Dichlorobenzene	NS	NS	ND										
1,2-Dichloroethane	NS	NS	ND										
1,2-Dichloropropane	NS	NS	ND										
1,3,5-Trimethylbenzene	NS	NS	ND										
1,3-Dichlorobenzene	NS	NS	ND										
1,3-Dichloropropane	NS	NS	ND										
1,4-Dichlorobenzene	NS	NS	ND										
2,2-Dichloropropane	NS	NS	ND										
2-Butanone	NS	NS	ND										
2-Chloroethylvinyl ether	NS	NS	ND										
2-Chlorotoluene	NS	NS	ND										
2-Hexanone	NS	NS	ND										
4-Chlorotoluene	NS	NS	ND										
4-Methyl-2-pentanone	NS	NS	ND										
Acetone	NS	NS	ND										

ActionNS	Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
ActyointrieNS<	Acetonitrile	NS	NS	ND										
NA NS NS<	Acrolein	NS	NS	ND										
AbsenzereNS <th< td=""><td>Acrylonitrile</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>ND</td></th<>	Acrylonitrile	NS	NS	ND										
aromobenzeneNS	Allyl chloride	NS	NS	ND										
BronnochloromethaneNS	Benzene	NS	NS	6.5										
BrondichloremethaneNS	Bromobenzene	NS	NS	ND										
BromoformNS <th< td=""><td>Bromochloromethane</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>ND</td></th<>	Bromochloromethane	NS	NS	ND										
BrownethaneNS<	Bromodichloromethane	NS	NS	ND										
Carbon DisulfideNS<	Bromoform	NS	NS	ND										
Carbon Tetrachloride NS NS <td>Bromomethane</td> <td>NS</td> <td>ND</td>	Bromomethane	NS	NS	ND										
ChloroberzeneNS	Carbon Disulfide	NS	NS	ND										
ChloroethaneNS	Carbon Tetrachloride	NS	NS	ND										
ChloroformNS <t< td=""><td>Chlorobenzene</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>ND</td></t<>	Chlorobenzene	NS	NS	ND										
ChloromethaneNS <td>Chloroethane</td> <td>NS</td> <td>ND</td>	Chloroethane	NS	NS	ND										
ChloropreneNS<	Chloroform	NS	NS	ND										
cis-1,2-DichloroetheneNS<	Chloromethane	NS	NS	ND										
Cis-1, DichloropropeneNS<	Chloroprene	NS	NS	ND										
DibromochloromethaneNS <th< td=""><td>cis-1,2-Dichloroethene</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>NS</td><td>ND</td></th<>	cis-1,2-Dichloroethene	NS	NS	ND										
DibromomethaneNS <td>cis-1,3-Dichloropropene</td> <td>NS</td> <td>ND</td>	cis-1,3-Dichloropropene	NS	NS	ND										
DichlorodifluoromethaneNS	Dibromochloromethane	NS	NS	ND										
Ethyl methacrylateNSN	Dibromomethane	NS	NS	ND										
EthylbenzeneNS	Dichlorodifluoromethane	NS	NS	ND										
IodomethaneNS<	Ethyl methacrylate	NS	NS	ND										
Isopropylbenzene (Cumene)NS <td>Ethylbenzene</td> <td>NS</td> <td>ND</td>	Ethylbenzene	NS	NS	ND										
m&p-Xylene NS	Iodomethane	NS	NS	ND										
Methacrylonitrile NS	Isopropylbenzene (Cumene)	NS	NS	ND										
Methyl methacrylate NS	m&p-Xylene	NS	NS	ND										
	Methacrylonitrile	NS	NS	ND										
Methyl tertiary-butyl ether NS	Methyl methacrylate	NS	NS	ND										
	Methyl tertiary-butyl ether	NS	NS	ND										

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Methylene Chloride	NS	NS	ND										
n-Butylbenzene	NS	NS	ND										
n-Propylbenzene	NS	NS	ND										
o-Xylene	NS	NS	ND										
p-Isopropyltoluene	NS	NS	ND										
Propionitrile	NS	NS	ND										
sec-Butylbenzene	NS	NS	ND										
Styrene	NS	NS	ND										
tert-Butylbenzene	NS	NS	ND										
Tetrachloroethene	NS	NS	ND										
Toluene	NS	NS	ND										
trans-1,2-Dichloroethene	NS	NS	ND										
trans-1,3-Dichloropropene	NS	NS	ND										
trans-1,4-Dichloro-2-butene	NS	NS	ND										
Trichloroethene	NS	NS	ND										
Trichlorofluoromethane	NS	NS	ND										
Vinyl Acetate	NS	NS	ND										
Vinyl Chloride	NS	NS	ND										
Xylenes	NS	NS	ND										

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	GL-	-03 (-3)		ug/L									
1,2,4-Trichlorobenzene	ND	ND	ND	NS	NS								
1,3-Dichlorobenzene	ND	ND	ND	NS	NS								
2,4,5-Trichlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4,6-Trichlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dichlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dimethylphenol	NS	NS	26.3 1c	2.5 1c	2.3 1c	1.5	0.68 J	1.1 1c	7.8 1c	1.9 1c	1.2 1c	NS	NS
2,4-Dinitrophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dinitrotoluene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,6-Dinitrotoluene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chloronaphthalene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chlorophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Methylnaphthalene	NS	NS	1.1 1c	ND	0.22 J1c	0.34 J	0.21 J	ND	1.1 1c	0.99 1c	1.1 1c	NS	NS
2-Methylphenol	NS	NS	0.74 J1c	ND	0.15 J1c	ND	ND	ND	0.37 J1c	ND	ND	NS	NS
2-Nitrophenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
3&4-Methylphenol	NS	NS	NS	NS	0.81 J1c	0.48 J	0.3 J	ND	2.8 1c	ND	ND	NS	NS
3,3'-Dichlorobenzidine	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Bromophenyl phenylether	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chloro-3-methylphenol	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chlorophenyl phenylether	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Nitrophenol	NS	NS	ND	ND	ND	ND	0.87 J3c	ND	ND	ND	ND	NS	NS
Acenaphthene	NS	NS	1.8 1c	0.45 J1c	0.8 J1c	0.78 J	0.64 J	0.54 J1c	2 1c	2 1c	1.9 1c	NS	NS
Acenaphthylene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acetophenone	NS	NS	0.58 J1c	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aniline	NS	NS	4.7 1c	ND	ND	0.48 J	ND	ND	5.4 L11c	ND	ND	NS	NS
Anthracene	NS	NS	0.38 J1c	ND	0.2 J1c	0.2 J	0.24 J	ND	0.39 J1c	0.48 J1c	ND	NS	NS
Benz[a]anthracene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzo[a]pyrene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Benzo[b]fluoranthene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzo[g,h,i]perylene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzo[k]fluoranthene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
bis(2-Chloro-1-methylethyl)ether	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
bis(2-Chloroethoxy)methane	NS	NS	0.44 J1c	ND	ND	ND	ND	ND	0.46 J1c	ND	ND	NS	NS
bis(2-Chloroethyl)ether	NS	NS	0.47 J1c	ND	ND	ND	ND	ND	0.63 J1c	ND	ND	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	ND	ND	ND	0.19 J	0.37 J	0.36 J1c	0.46 J1c	ND	ND	NS	NS
Butyl benzyl phthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chrysene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibenz[a,h]anthracene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibenzofuran	NS	NS	1.1 1c	ND	0.46 J1c	0.51 J	0.44 J	ND	1.4 1c	1.4 1c	1.3 1c	NS	NS
Diethylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dimethylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-butylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	1.3 1c	ND	NS	NS
Di-n-octylphthalate	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Fluoranthene	NS	NS	1.2 1c	0.68 J1c	0.66 J1c	0.58 J	0.75 J	0.48 J1c	0.95 J1c	0.95 J1c	1 1c	NS	NS
Fluorene	NS	NS	1.5 1c	0.45 J1c	0.77 J1c	0.87 J	0.72 J	0.61 J1c	2 1c	2.4 1c	2.2 1c	NS	NS
Hexachloro-1,3-butadiene	ND	ND	ND	NS	NS								
Hexachlorobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorocyclopentadiene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachloroethane	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Indeno[1,2,3-cd]pyrene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Isophorone	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Naphthalene	5.5	2.6	13.2	1.7 J	3.6	4.2	2.6	2.4	11.9	6.5	9.6	NS	NS
Nitrobenzene	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodimethylamine	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachloroethane	NS	NS	NS										
Pentachlorophenol	NS	NS	0.83 J1c	0.7 J1c	ND	ND	ND	1.1 J1c	1.4 J1c	ND	ND	NS	NS
Phenanthrene	NS	NS	2.6 1c	0.59 J1c	1.1 1c	1.3	1	0.78 J1c	2.6 1c	3.2 1c	2.7 1c	NS	NS
Phenol	NS	NS	0.36 J1c	ND	0.16 JB1c	0.17 J	0.34 J	0.89 J1c	0.24 J1c	1.2 B1c	0.64 J1c	NS	NS

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Pyrene	NS	NS	0.78 J1c	0.45 J1c	0.38 J1c	0.38 J	0.51 J	0.34 J1c	0.58 J1c	0.63 J1c	0.73 J1c	NS	NS
Pyridine	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	GL-	-08 (-3)		ug/L									
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	ND	ND	ND	1.1 J	ND	ND	ND	ND	1.2 J1c	0.81 J1c	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.27 J1c	ND	0.2 J	ND	0.71 J1c	0.53 J1c	ND	ND	ND
2,4-Dichlorophenol	ND	1 1c	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 1c	ND
2,4-Dimethylphenol	92.8 1c	58.5 1c	60.2 1c	62.4	82.9 1c	79.1 ED	16.7	116 D31c	67.8 1c	55.1 1c	109 1c	50.3 1c	89.2 1c
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J1c	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	2.2 1c	ND	ND	ND	2 1c	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	0.18 J	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	117 1c	63.5 1c	28.9 1c	34.1	57.3 1c	41.3 ED	63.4	61.4 D31c	44.6 1c	25.8 1c	102 1c	12.8 1c	32.3 1c
2-Methylphenol	28.5 1c	19.4 1c	26.4 1c	25.2	30.7 1c	ND	23	45.8 D31c	33.7 1c	22.1 1c	27.2 1c	24.2 1c	40.2 1c
2-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol	79.4 1c	NS	NS	NS	68.3 1c	53.9 ED	59.5	90.6 D31c	69.5 1c	43.2 B1c5c	68.8 1c	45.3 1c	77.4 1c
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 1c	3.9 1c	ND
3-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	27.3 1c	18.7 1c	5.3 1c	11.3	13.5 1c	11.4 ED	19	15.2 JD31c	15.5 1c	5.9 1c	23 1c	2.7 1c	9.8 J1c
Acenaphthylene	43.4 1c	25.1 1c	7.3 1c	13.4	17.2 1c	11.9 ED	25.7	20.7 D31c	24.3 1c	8.9 1c	33.2 1c	4.6 1c	11.6 1c

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Acetophenone	36 1c	18.3 1c	20.3 1c	19.1	35.1 1c	19.1 ED	25.3	34.5 D31c	27.4 1c	17.5 1c	24.3 1c	14.3 1c	25.3 1c
Aniline	4 1c	3.3 1c	ND	2.2 J	ND	ND	2.4 J	ND	ND	ND	ND	1.2 J1c	ND
Anthracene	12.7 1c	7.6 1c	3.8 1c	4.3	7.2 1c	4.7 JED	9.1	6.7 JD31c	9.6 1c	3.5 1c	9.3 1c	2.2 1c	ND
Azobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	0.88 J1c	0.26 J1c	ND	0.25 J	0.42 J1c	ND	0.31 J	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	0.51 JIS1c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	1.6 lplS1c	0.22 Jlp1c	0.26 JIS1c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.5 lplS1c	0.22 Jlp1c	0.26 JIS1c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzyl alcohol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloro-1-methylethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	1.8 JED	1.4	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.36 J1c	0.37 J1c	ND	0.44 J	ND	ND	0.55 J	ND	0.55 J1c	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	0.65 J1c	ND	ND	ND	0.36 J1c	ND	0.27 J	ND	0.56 J1c	ND	ND	ND	ND
Dibenz[a,h]anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	65.9 1c	37.3 1c	9.5 1c	19.4	28.2 1c	18.3 ED	42.9	26.8 D31c	36.1 1c	9.9 1c	46.8 1c	5.5 1c	16.1 1c
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	7.2 1c	4 1c	2.5 1c	2.5	5.2 1c	4.7 JED	6.6	ND	6.8 1c	1.8 1c	4.8 1c	1.5 1c	ND
Fluorene	63.1 1c	37.4 1c	9.7 1c	17.1	28.3 1c	19.5 ED	44.7	28.1 D31c	35.9 1c	10.2 1c	48.3 1c	6.3 1c	18.2 1c
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Indeno[1,2,3-cd]pyrene	0.19 JIS1c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	15,200	4,130	15,200	1,790	3,440	1,890	6,430	3,210	3,800	2,820	4,890	1,690	1,390
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitrosodiphenylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachloroethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	2.7 1c	1.3 J1c	1.5 J1c	2.2 J	1.8 J1c	ND	ND	ND	3.3 1c	1.7 J1c	2 J1c	1.9 J1c	ND
Phenanthrene	65.8 1c	38.9 1c	18.7 1c	19.2	33.5 1c	22 ED	56.2	28.4 D31c	42.2 1c	13.1 1c	47.2 1c	9.2 1c	18.6 1c
Phenol	30.5 1c	8.1 1c	1.9 1c	2.7	12.5 1c	1.7 JED	17.5	ND	3.5 1c	0.62 JB1c	14.9 1c	0.49 J1c	3.3 J1c
Pyrene	8.2 1c	2.9 1c	1.8 IS1c	2	3.1 1c	2.8 JED	3.6	ND	3.1 1c	1.9 1c	3 1c	ND	ND
Pyridine	19.9 1c	8.4 1c	11.7 1c	15.3	13 1c	7.8 JED	13.8	15.7 JD31c	8.7 1c	4.5 1c	0.55 JL21c	0.93 J1c	4.1 JCHL21c

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	GL-	-09 (-2)		ug/L									
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	0.81 J1c	0.25 J1c	0.34 J	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	0.34 J1c	0.44 J1c	ND	ND	0.26 J1c	0.32 J	0.35 J1c	ND	ND	ND	ND	ND
2,4-Dimethylphenol	32.1 1c	13.7 1c	49.9 1c	18.2 ED1c	48.2 1c	ND	51.6	38.4 1c	56.8	36.6 D31c	73.6 EDL11c	ND	52.2 ED1c
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	0.93 J	0.49 J1c	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	0.62 J	0.75 J1c	ND	ND	ND
2-Chlorophenol	ND	0.35 J1c	0.56 J1c	ND	0.67 J1c	ND	0.65 J	0.39 J1c	0.91 J	0.43 J1c	ND	ND	ND
2-Methylnaphthalene	2.4 1c	1.6 1c	1.8 1c	ND	0.92 J1c	0.82 J1c	0.98 J	1.2 1c	1.3	3.6 JD31c	ND	ND	ND
2-Methylphenol	19.2 1c	10.2 1c	27.3 1c	8.1 JED1c	28.8 1c	8.5 1c	25.6	16.9 1c	36.2	20.9 1c	43.6 ED1c	ND	ND
2-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol	219 1c	NS	NS	NS	345 1c	91.6 1c	329	249 1c	426	230 1c	449 ED1c	ND	304 ED1c
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	0.17 J	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	0.9 J	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitrophenol	ND	ND	2.1 1c	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3 JCHED10
Acenaphthene	1.4 1c	1.3 1c	1.6 1c	ND	0.93 J1c	0.8 J1c	1	1 1c	1.1	3.2 1c	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Acetophenone	ND	0.37 J1c	ND	ND	2.7 1c	ND	2.8	2.1 1c	ND	ND	ND	ND	ND
Aniline	ND	ND	ND	ND	ND	ND	158	ND	ND	ND	ND	ND	ND
Anthracene	0.53 J1c	0.49 J1c	0.54 J1c	ND	0.7 J1c	0.37 J1c	0.44 J	0.61 J1c	1	0.99 J1c	ND	ND	ND
Azobenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzyl alcohol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloro-1-methylethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	1.6	1.3 1c	ND	3.7 JD31c	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.39 J1c	0.41 J1c	2.9 IS1c	ND	0.2 J1c	ND	0.29 J	0.95 JB1c	0.8 J	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz[a,h]anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	1.1 1c	0.97 J1c	1.1 1c	ND	0.77 J1c	0.41 J1c	0.65 J	0.77 J1c	0.87 J	2.5 1c	ND	ND	ND
Diethylphthalate	ND	ND	0.79 J1c	ND	ND	0.45 J1c	0.83 J	0.63 J1c	ND	ND	ND	ND	ND
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	0.11 J1c	ND	ND	ND	0.23 J1c	ND	ND	ND	0.44 J1c	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	0.36 JIS1c	0.52 JIS	ND	ND	ND	ND
Fluoranthene	0.42 J1c	0.39 J1c	0.3 J1c	ND	ND	ND	0.16 J	0.51 J1c	0.43 J	0.6 J1c	ND	ND	ND
Fluorene	1.4 1c	1.3 1c	1.3 1c	ND	1.1 1c	0.65 J1c	0.93 J	0.99 J1c	1.1	3.1 1c	ND	ND	ND
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3.1	ND	ND	ND	ND

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Indeno[1,2,3-cd]pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	54.9	22.5	39	19.1	23	16.4	23.1	24.7	59	39.4	29	44.8	28.2
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitrosodiphenylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachloroethane	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	1.2 J1c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2.1 1c	1.7 1c	2 1c	ND	1.2 1c	0.76 J1c	0.87 J	1.7 1c	1.9	4.3 1c	ND	ND	ND
Phenol	156 1c	70.9 1c	232 1c	48.9 ED1c	239 1c	48.2 1c	222	178 1c	320	178 1c	342 ED1c	ND	217 ED1c
Pyrene	0.54 J1c	0.38 J1c	ND	ND	0.17 J1c	ND	ND	0.54 J1c	0.51 J	0.41 J1c	ND	ND	ND
Pyridine	0.39 J1c	0.38 J1c	0.84 J1c	ND	0.55 J1c	0.32 JL21c	0.46 J	0.66 JCH1c	0.59 J	0.51 J1c	ND	ND	ND

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Location ID:	L	.F-01		ug/L									
1,2,4-Trichlorobenzene	NS	NS	ND										
1,3-Dichlorobenzene	NS	NS	ND										
2,4,5-Trichlorophenol	NS	NS	ND										
2,4,6-Trichlorophenol	NS	NS	ND										
2,4-Dichlorophenol	NS	NS	ND										
2,4-Dimethylphenol	NS	NS	ND										
2,4-Dinitrophenol	NS	NS	ND										
2,4-Dinitrotoluene	NS	NS	ND										
2,6-Dinitrotoluene	NS	NS	ND										
2-Chloronaphthalene	NS	NS	ND										
2-Chlorophenol	NS	NS	ND										
2-Methylnaphthalene	NS	NS	ND										
2-Methylphenol	NS	NS	ND										
2-Nitrophenol	NS	NS	ND										
3&4-Methylphenol	NS	NS	ND										
3,3'-Dichlorobenzidine	NS	NS	ND										
4,6-Dinitro-2-methylphenol	NS	NS	ND										
4-Bromophenyl phenylether	NS	NS	ND										
4-Chloro-3-methylphenol	NS	NS	ND										
4-Chlorophenyl phenylether	NS	NS	ND										
4-Nitrophenol	NS	NS	ND										
Acenaphthene	NS	NS	ND										
Acenaphthylene	NS	NS	ND										
Acetophenone	NS	NS	ND										
Aniline	NS	NS	ND										
Anthracene	NS	NS	ND										
Benz[a]anthracene	NS	NS	ND										
Benzo[a]pyrene	NS	NS	ND										

Benzo[b]fluorantheneBenzo[g,h,i]peryleneBenzo[k]fluoranthenebis(2-Chloro-1-methylethyl)etherbis(2-Chloroethoxy)methanebis(2-Chloroethyl)etherbis(2-Ethylhexyl)phthalateDin-noetylphthalatebi-n-octylphthalate	NS	NS											
Benzo[k]fluoranthenebis(2-Chloro-1-methylethyl)etherbis(2-Chloroethoxy)methanebis(2-Chloroethyl)etherbis(2-Ethylhexyl)phthalateButyl benzyl phthalateChryseneDibenz[a,h]anthraceneDibenzofuranDiethylphthalateDimethylphthalateDin-butylphthalateDi-n-butylphthalateDi-n-octylphthalate			NS	ND									
bis(2-Chloro-1-methylethyl)ether bis(2-Chloroethoxy)methane bis(2-Chloroethyl)ether bis(2-Chloroethyl)ether bis(2-Ethylhexyl)phthalate Butyl benzyl phthalate Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
bis(2-Chloroethoxy)methane bis(2-Chloroethyl)ether bis(2-Ethylhexyl)phthalate Butyl benzyl phthalate Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate	NS	ND											
bis(2-Chloroethyl)ether bis(2-Ethylhexyl)phthalate Butyl benzyl phthalate Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate	NS	ND											
bis(2-Ethylhexyl)phthalate Butyl benzyl phthalate Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate	NS	ND											
Butyl benzyl phthalate Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
Dibenz[a,h]anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
Di-n-butylphthalate Di-n-octylphthalate	NS	ND											
Di-n-octylphthalate	NS	ND											
	NS	ND											
Elucation and	NS	ND											
Fluoranthene	NS	ND											
Fluorene	NS	ND											
Hexachloro-1,3-butadiene	NS	ND											
Hexachlorobenzene	NS	ND											
Hexachlorocyclopentadiene	NS	ND											
Hexachloroethane	NS	ND											
Indeno[1,2,3-cd]pyrene	NS	ND											
Isophorone	NS	ND											
Naphthalene	NS	3											
Nitrobenzene	NS	ND											
N-Nitrosodimethylamine	NS	ND											
Pentachlorophenol	NS	ND											
Phenanthrene	NS	ND											
Phenol	NS	ND											
Pyrene	NS	ND											

Parameter	11/1/2015	5/1/2016	11/1/2016	5/1/2017	11/1/2017	5/1/2018	12/1/2018	5/1/2019	11/1/2019	6/1/2020	11/1/2020	5/1/2021	11/1/2021
Pyridine	NS	NS	ND										