PHASE II ENVIRONMENTAL SITE ASSESSMENT

Fort Wayne Community Schools – Transportation South
6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana 46809
SES Phase I ESA Project No. : 2023-0634
SES Phase II ESA Project No.: 2023-0635

July 10, 2023

Prepared for:

Fort Wayne Community Schools
1519 Catalpa Street
Fort Wayne, Indiana 46802

ENVIRONMENTAL PROFESSIONAL STATEMENT

I certify, under penalty of law, that this document and all appendices and attachments as applicable were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience.

_____
Glen A. Howard, CHMM
Senior Project Manager
SES Fort Wayne, IN

EXECUTIVE SUMMARY

SES Environmental completed a Phase II environmental site assessment (ESA) at the Fort Wayne Community Schools – Transportation South property located at 6006 Ardmore Avenue in Fort Wayne Allen County, Indiana (herein after referred to as the "site"). The assessment was conducted in June 2023 to further assess *recognized environmental conditions (RECs)* identified in SES's *Phase I Environmental Site Assessment* dated June 2, 2023. In review, the two following RECs were identified.

REC #1 One 12,000-gallon diesel fuel underground storage tank (UST) and one 10,000-gallon diesel fuel UST are currently in use on the north portion of the subject property. In addition, regulatory records indicate that one 12,000-gallon gasoline UST, formerly located at the existing UST area, was removed in 1993, and one 500-gallon used oil UST was removed or closed-in-place in 1991. The location of the used oil UST was not determined. The potential exists for releases of petroleum at the UST systems since at least 2009.

REC #2 Historical review indicates the property has been occupied by a bus maintenance garage since development in 1957. Maintenance operations have included the storage and use of new and used oil, antifreeze, and solvents. In addition, at least three in-ground hydraulic lifts were formerly located at the service garage area and an oil/water separator is located south of the building. The potential exists for releases of hazardous substances and/or petroleum products to have occurred during the long history of maintenance operations at the property.

The Phase II environmental assessment was conducted to investigate the foregoing RECs to determine current conditions and to screen for constituents of concern. Soil borings were advanced at seven locations with soil and groundwater sampling/testing at each location. Specifically, sampling was conducted at four locations near the existing UST and fuel dispensing area (REC #1). In addition, borings were advanced around the perimeter of the maintenance service/garage, as well as near the separator (REC #2). Sampling locations GP1 and GP2 were positioned between the UST/fueling area and the former garage area. Sampling locations GP3 and GP4 were positioned at the UST/fueling area and sampling locations GP-5, GP6 and GP7 were positioned north, south, and west, respectively, of the maintenance service/garage. Furthermore, sampling location GP6 was positioned adjacent to the separator unit. At each sampling location, soil and groundwater samples were collected and analyzed for volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs) as a screening for solvent and petroleum. At sampling locations positioned around the existing and former garages, the collected soil and groundwater samples were also analyzed for ethylene glycol, as a screening for antifreeze; and for arsenic, cadmium, chromium and lead as a screening for used oils. At sampling locations located hydraulically down-gradient of the garage, identified as GP5, GP6, and GP7, groundwater samples were also analyzed for oil and grease as a screening for automotive fuels and lubricants. Assessment results are summarized as follows.

- Native clay soil was present beneath the pavement materials and extended to depths of approximately 3 to 7 feet, followed by sand extending to a depth of at least 35 feet (depth of exploration). Depth to groundwater was generally 31 feet. Groundwater flow to the southwest was inferred. Field evidence of soil contamination, as petroleum odors, were not observed nor were elevated (> 6 ppmv) PID responses.

- Soil sampling and testing found no detectable concentrations of VOCs, PAHs, arsenic, cadmium, or ethylene glycol. The metals, chromium and lead, were detected in soil samples; however, these metals occur naturally in soils and the detected concentrations were well below *published human health levels.*

- Groundwater sampling and testing found no detectable concentrations of VOCs, PAHs, arsenic, cadmium, ethylene glycol, or oil & grease. The metals, chromium and lead, were detected in groundwater samples; however, these metals occur naturally and the detected chromium concentrations were well below the *published human health level.* The total lead concentration at GP1 was slightly higher than the *published*

human health level. Due to observed turbidity and suspended solids in the groundwater samples, total lead concentration can be bias high.

In summary, this assessment found no evidence of petroleum, oils, glycol, grease, or solvent contamination (e.g., no evidence of a historical release of petroleum or hazardous substance). Phase II assessment is complete and based on the above, no further assessment or corrective action is necessary at this time.

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1.0 INTRODUCTION

SES Environmental completed a Phase II environmental site assessment (ESA) at the Fort Wayne Community Schools – Transportation South property located at 6006 Ardmore Avenue in Fort Wayne Allen County, Indiana (herein after referred to as the "site"). The assessment was conducted in June 2023 to further assess *recognized environmental conditions (RECs)* identified in SES's *Phase I Environmental Site Assessment* dated June 2, 2023.

The report details the Phase II assessment and begins by summarizing general background information pertaining to the site and surrounding area. Assessment methods and test results are then presented. The report concludes with a summary of the results of the assessment. Supporting documentation including figures, soil boring logs, and laboratory testing reports are provided in the appendices.

2.0 BACKGROUND

2.1 Site Location and Surrounding Area

The site is located along the west side of Ardmore Avenue, approximately 4½ miles southwest of the City of Fort Wayne central business district. Geographically, the subject property is located at approximately 41.0289160° north latitude and 85.1901000° west longitude. The elevation of this subject property is approximately 775 feet above mean sea level as shown on the Fort Wayne West, Indiana USGS 7.5-Minute Quadrangle Map. A Topographic Map and Site Plan are presented as Figures 1 and 2, respectively.

The site is located in a residential and industrial area along Ardmore Avenue with undeveloped land to the north, residential properties to the east and a quarry to the south and west. More specifically, the immediate north adjoining property is occupied by undeveloped land that was formerly occupied by Elmhurst High School (3829 Sandpoint Road) with Sand Point Road beyond. Ardmore Avenue borders the site to the east, with residences (5915-5971 Ardmore Avenue and 3731 Elmhurst Drive) and Midwest Tile and Concrete Products (6209 Ardmore Avenue), which operates as a manufacturer of drainage components, beyond. The immediate south adjoining property is occupied by Heidelberg Materials, Aggregates (6002 & 6100 Ardmore Avenue) and Hanson Quarry. The immediate west adjoining property is occupied by Hanson Quarry (4700 Sandpoint Road & 4300 Ardmore Avenue).

2.2 Current Site Conditions

The site property is rectangle shaped and consists of two parcels of land containing 8.53 acres. A one-story office/maintenance garage building is located on the north portion and a one-story storage building is located on the central portion of the property. Access to the property is from the entrance off Ardmore Avenue to the east. Asphalt-paved drive areas surround the office/maintenance building to the north and south, with paved parking areas generally comprising the remaining portions of the property.

The office/maintenance garage building is one-story and contains approximately 15,911 square feet of floor space. The interior of the building consists of finished offices in the east and central portions and a garage area in the west portion. The garage area in the west portion of the building consists of five bays. Two bays in the east portion of the garage are used for storage and truck parking. The three bays in the central portion of the garage are used for conducting service and maintenance on school buses. The garage bay in the west portion of the building is used as a wash bay.

The storage building on the central portion of the property is one-story and contains approximately 1,500 square feet of floor space and is used for storing lawn mowers, a snowplow, and other miscellaneous items.

Two underground storage tanks (USTs) and two fuel dispensers are located north of the office/maintenance garage building. Records indicate one 12,000-gallon diesel fuel UST and one 10,000-gallon diesel fuel UST are currently utilized. Furthermore, the most recent inspection of the UST system conducted by IDEM on August 31, 2017 found no violations and stated the facility appeared to be in compliance. Two manholes, which cover an underground oil/water separator, are located along the south side of the building. The separator is reportedly of concrete construction; however, additional construction details were not available.

Water and sewer services are provided to the site by the City of Fort Wayne. Natural gas is supplied to the property by Northern Indiana Public Service Company (NIPSCO) and electricity is provided by Indiana Michigan Power (I&M).

2.3 Site History

The earliest reviewed historical source consists of an aerial photograph from the year 1938, which depicts the site with a residential dwelling and several outbuildings on the west portion and wooded land on the east portion. The original portion of the existing office/maintenance garage building was constructed in 1957. Based on a review of historical aerial photographs and city directories the building appears to have been occupied by the school system since it was built. An aerial photograph from 1957 shows the building was likely associated with a north adjoining school building (former Elmhurst High School). City directories indicate the property has been occupied by the Fort Wayne Community Schools Bus Garage since at least 1970.

2.4 Phase I Assessment - June 2, 2023

SES conducted a Phase I Environmental Site Assessment (ESA) of the site in May-June 2023. The ESA included a visual inspection of the site and limited observations of surrounding properties, a review of historic land use, a review of regulatory listings, and interviews with persons potentially knowledgeable concerning site conditions. The assessment revealed the following *recognized environmental conditions* (RECs) at the site property:

REC #1 One 12,000-gallon diesel fuel underground storage tank (UST) and one 10,000-gallon diesel fuel UST are currently in use on the north portion of the subject property. In addition, regulatory records indicate that one 12,000-gallon gasoline UST, formerly located at the existing UST area, was removed in 1993, and one 500-gallon used oil UST was removed or closed-in-place in 1991. The location of the used oil UST was not determined. The potential exists for releases of petroleum at the UST systems since at least 2009.

REC #2 Historical review indicates the property has been occupied by a bus maintenance garage since development in 1957. Maintenance operations have included the storage and use of new and used oil, antifreeze, and solvents. In addition, at least three in-ground hydraulic lifts were formerly located at the service garage area and an oil/water separator is located south of the building. The potential exists for releases of hazardous substances and/or petroleum products to have occurred during the long history of maintenance operations at the property.

In addition, SES identified the following *historical recognized environmental condition* (HREC) associated with the site property during the completion of this Phase I ESA. The term Historical Recognized Environmental Condition (HREC) refers to a past release that does not pose a present land-use restriction, nor does it warrant recommendations for clean-up.

HREC #1 An environmental assessment was conducted in December 1998 during product line upgrades for the UST system. Assessment results indicated petroleum contamination was present. A petroleum release incident was reported to IDEM and was assigned Incident #1999-02-528. Environmental investigation conducted at the UST area between July 2007 and April 2008 consisted of the installation of nine soil borings at the UST and fueling area, nine additional soil borings at locations outward of the UST area, and three groundwater monitoring wells at the UST area and downgradient from the UST area. No significant concentrations of the petroleum constituent's benzene, toluene, ethylbenzene, xylene, and methyl-tert-butyl-ether (BTEX/MTBE), or polycyclic aromatic hydrocarbons (PAHs) were detected in soil or groundwater; however, elevated concentrations of total petroleum hydrocarbons (TPH) were detected in soil and groundwater. Six quarters of groundwater monitoring were completed between April 2008 and July 2009. BTEX/MTBE, PAHs, and TPH were occasionally detected in groundwater; however, concentrations did not exceed the IDEM Residential Default Closure Levels (RDCLs). Based on groundwater conditions following six quarters of groundwater sampling, corrective action was determined to be complete and IDEM approved No Further Action for LUST Incident #199902528 based on results presented in a *Corrective Action Completion Report* dated October 19, 2009.

HREC #2 A release of diesel fuel was reported at the property in September 2012. An estimated six to seven gallons of diesel fuel was released from a parked school bus on the southwest portion of the subject property. FWCS maintenance manually removed surface gravel from the spill area. Inspection revealed diesel fuel-stained gravel was still present and therefore, an additional two inches of gravel was removed from the area utilizing a skid steer loader. Following removal, a soil sample identified as S1 was manually collected from the removal area and inserted into laboratory supplied sample containers. The laboratory detected xylene, 2-methylnaphthalene, and TPH in the S1 sample indicating residual fuel contamination remained. In response, additional soil was removed on 28-Sep-12 using a backhoe excavator operated by FWCS personnel. The final excavation measured 15 feet north to south, 11 feet east to west and ranged from a depth of 18 inches on the south side to 24 inches on the north side. A sample identified as S2 was retained from the bottom of the excavation. Diesel fuel constituents were not detected in the S2 sample and therefore, no further soil removal was conducted. Based on generator knowledge, diesel fuel-impacted soil was classified for disposal purposes as "*Non-Hazardous Special Waste*". An *Express Waste Profile* was forwarded to Republic Services, Inc. for review. The waste was subsequently approved for disposal at the National Serv-All Landfill, 6231 MacBeth Road, Fort Wayne, Indiana. Disposal records indicate three loads (13.43 tons) of diesel fuel impacted gravel were removed and disposed of during cleanup activities. Diesel fuel-stained soil was removed from the spill area and diesel fuel constituents were not detected in the sample retained from the completed excavation; therefore, cleanup was determined to be complete.

3.0 PHASE II ENVIRONMENTAL ASSESSMENT

A Phase II environmental assessment was conducted in June 2023 to determine current conditions and to screen for constituents of concern. Soil borings were advanced at four locations near the existing UST and fuel dispensing area. In addition, borings were advanced around the perimeter of the maintenance service/garage, as well as near the separator. Soil and groundwater sampling/testing was completed at each boring.

Sampling locations are depicted as GP1 through GP7 on Figure 2. As indicated, sampling locations GP1 and GP2 were positioned between the UST/fueling area and the former garage area. Sampling locations GP3 and GP4 were positioned at the UST/fueling area and sampling locations GP-5, GP6 and GP7 were positioned north, south, and west, respectively, of the maintenance service/garage. Furthermore, sampling location GP6 was positioned adjacent to the separator unit.

- At each sampling location, soil and groundwater samples were collected and analyzed for volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs) as a screening for solvent and petroleum.

- At sampling locations positioned around the existing and former garages, the collected soil and groundwater samples were also analyzed for ethylene glycol, as a screening for antifreeze; and for arsenic, cadmium, chromium and lead as a screening for used oils.

- At sampling locations located hydraulically down-gradient of the garage, identified as GP5, GP6, and GP7, groundwater samples were also analyzed for oil and grease as a screening for automotive fuels and lubricants.

Prior to initiating sampling, notified Indiana811 to have public utilities identified. In addition, FWCS staff completed utility locating.

3.1 Soil Boring / Sampling Methods

Soil borings were advanced using track mounted direct-push Geoprobe™ 7822DT equipment. Soil samples were collected continuously from the surface to a depth of 35 feet in accordance with ASTM D6282 methodology using a dual-tube sample retrieval system. A new inner acetate sleeve was used for each sample interval. Sampling equipment that contacted soil was decontaminated with an Alconox® detergent wash and tap water rinse before initiating investigative activities and between sampling locations to reduce the possibility of cross-contamination between locations and boreholes.

Soil samples were handled, visually inspected, screened, and preserved for laboratory analysis in accordance with industry standard practices as follows:

Acronyms
PAH = polycyclic aromatic hydrocarbons
PID = photoionization detector
ppmv = parts per million by volume
RCRA = Resource Conservation Recovery Act
s.u. = standard unit
VOC = volatile organic compounds

- Soil samples were removed from the sampling device and split into two parts. The first part was processed for possible laboratory analysis. The second part was placed into a plastic, sealable container for field headspace screening.

- Sample collection for VOCs was generally consistent with Method 5035A. Specifically, a Terra Core™ sampler was used to place 5-grams of soil into three 40-ml, laboratory provided vials. A laboratory provided 4-ounce jar was then filled with soil for moisture measurement. Each container was labeled with specific preservation, identification and labeled stickers listing the tarred weight; and then placed in a cooler containing ice pending transport to ENVision Laboratories (ENVision) in Indianapolis, Indiana.

- Samples retained for semi-volatile organic and inorganic testing were packaged into 4-ounce, laboratory-supplied, glass sample containers; then labeled, and placed in a cooler containing ice pending transport to ENVision.

- Following infield preservation, all soil samples were visually inspected in the field by an SES geologist and classified according to color, texture, and relative moisture content in accordance with ASTM Standard D 2488. Visual evidence of staining and/or distinct odors was also noted, if present. Results of the visual examination were recorded on standard boring logs (Appendix A).

- All samples were handled with minimum contact and gloved hands. New, disposable, vinyl gloves were used to handle each sample.

- Following the completion of each boring, the portion of each sample retained for headspace screening was analyzed by inserting the probe of a PID into the container. The highest observed PID measurement was recorded as total

volatile organic compounds in ppmv. Prior to sample screening, the PID was field-calibrated with 100 parts per million isobutylene standard according to the manufacturer's specifications.

- Soil samples were selected for laboratory testing based on visual observations. Specifically, field staff retained samples from the depth interval directly above groundwater (e.g., smear zone). Elevated PID responses (> 6 ppmv) were not apparent during soil sampling. The samples retained for laboratory testing were transported under chain-of-custody control in a cooler containing ice to ENVision.

- The selected soil samples were analyzed for VOCs in accordance with SW846 Method 8260; PAHs in accordance with SW846 Method 8270; arsenic, cadmium, chromium, and lead in accordance with SW846 Method 6010; and ethylene glycol in accordance with SW846 Method 8015.

3.2 Groundwater Sample Point Installation and Sampling

Following soil sampling, temporary groundwater sampling points were installed at each location (for a total of seven). The points were constructed using one-inch inner diameter PVC casing and machine slotted screen. The screened interval was positioned to intercept potential water bearing soils – based on visual inspection of soil samples. Groundwater samples were collected on June 21, 2023 using conventional purging and sampling methods in accordance with industry standard practices as follows.

- Purging was conducted using a peristaltic pump, waterra pump, or bailer, and sampling was conducted using a single-use, factory-sealed, polyethylene bailer fitted with monofilament line. A new bailer was used at each location.

- Samples were discharged directly into laboratory-provided sample containers.

- The initial portion of each sample was discharged directly into two, 40-ml glass sample vials containing HCl acid preservative, leaving no headspace. These samples were analyzed for VOCs in accordance with SW846 Method. Groundwater was then discharged into three 40-ml amber glass sample vials for PAHs in accordance with SW846 Method 8270 followed by filling three more laboratory provided containers for ethylene glycol (Method 8015) and oil and grease (Method 1664), where appropriate. Lastly, a 250-ml plastic container having HNO3 preservative was filled for arsenic, cadmium, chromium, and lead testing in accordance with Method 6010 at locations positioned around the existing and former garages.

- Samples were labeled, entered chain-of-custody, placed into a cooler filled with ice, and transported to ENVision. Samples were transported to ENVision by their own courier/staff member.

A duplicate water sample was collected from GP6 and labeled GP8. A trip blank containing distilled water, accompanied the soil and groundwater samples throughout collection and transport to the laboratory. The trip blank was analyzed for VOCs.

3.3 Surveying and Gauging

Relative elevations were established for the top of PVC (groundwater sampling points) using standard level survey methods. Elevations were established to an accuracy of 0.01 feet. Measurements were also conducted to locate the position of each point relative to significant site features. The depth to groundwater was gauged on June 21, 2023 (the day after piping installation) using an electronic wireline meter. Measurements were recorded to the nearest 0.01 ft. The gauging probe was decontaminated prior to use and between each point location.

Once sampling and gauging was completed, the sampling points were removed in general accordance with industry standard practices. Specifically, the boreholes were filled with bentonite tablets, and periodic sounding was conducted during the filling process to monitor for bridging.

3.4 Assessment Results

3.4.1 Soil and Groundwater Conditions

Surface pavement with underlying base course material was present at each sampling location. Suspected native clay soil was present beneath the pavement materials and extended to depths of approximately 3 to 7 feet, followed by sand extending to a depth of at least 35 feet (depth of exploration). Field evidence of soil contamination, as petroleum odors, were not observed nor were elevated (> 6 ppmv) PID responses.

Groundwater gauging data is summarized below. Depth to groundwater was generally 31 feet. Groundwater flow to the southwest was inferred (Figure 3). This result is generally consistent with HREC#1 records.

Table 1. Relative Groundwater Elevations
Fort Wayne Community Schools – Transportation South
6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana 46809

Sampling Point ID	Relative Top of Casing Elevations (feet)	Date	Depth to Water (feet)	Relative Groundwater Elevations (feet)
GP1	97.26	6/21/2023	30.31	66.95
GP2	97.24	6/21/2023	30.52	66.72
GP3	97.05	6/21/2023	30.32	66.73
GP4	95.54	6/21/2023	28.70	66.84
GP5	97.37	6/21/2023	30.84	66.53
GP6	97.24	6/21/2023	30.74	66.50
GP7	96.34	6/21/2023	30.04	66.30

3.4.2 Soil Testing Results

Soil samples were retained from each boring at depth intervals directly above groundwater (e.g., smear zone). At each sampling location, a soil sample was collected and analyzed for volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs) as a screening for solvent and petroleum. At sampling locations positioned around the existing and former garages, the collected soil samples were also analyzed for ethylene glycol, as a screening for antifreeze; and for arsenic, cadmium, chromium and lead as a screening for used oils.

Soil testing results are summarized in the following table on the next page and Figure 4. *Human Health Levels* published in the Indiana Department of Environmental Management (IDEM) *Risk-based Closure Guide (R2)* dated July 8, 2022 are included for reference. The R2 describes approaches to investigation and risk-based closure of contaminated or potentially contaminated sites. Its purpose is to provide for consistent application of Indiana Code (IC) 13-12-3-2 and IC 13-25-5-8.5, which form the statutory basis for risk-based cleanup in Indiana. Note however that IDEM's R2 does not specify long term residential or commercial soil direct contact levels for VOCs. A laboratory report (Envision Report #2023-0635) is provided as Appendix B.

Table 3. Soil Testing Results
Fort Wayne Community Schools – Transportation South
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Sample ID (depth interval) [general location]	Sample Date	Detected Parameter		*IDEM R2 Published Human Health Levels (mg/kg)***		
		Parameter	Concentration (mg/kg)	*Residential*	*Commercial*	*Excavation*
GP1 (28-30') [between UST area and former garage area]	6/20/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium Lead No Ethylene Glycol	 6.3 3.5	 *100000(CrIII)* *400*	 *100000(CrIII)* *800*	 *100000(CrIII)* *1000*
GP2 (28-30') [between fueling area and former garage area]	6/20/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium Lead No Ethylene Glycol	 6.9 5.2	 *100000(CrIII)* *400*	 *100000(CrIII)* *800*	 *100000(CrIII)* *1000*
GP3 (24-25') [at UST area/fueling area]	6/20/2023	No VOCs Detected No PAHs Detected				
GP4 (28-30') [at UST area/fueling area]	6/20/2023	No VOCs Detected No PAHs Detected				
GP5 (28-30') [north of existing garage area, with lifts, drain and oil storage]	6/20/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium Lead No Ethylene Glycol	 5.7 4.4	 *100000(CrIII)* *400*	 *100000(CrIII)* *800*	 *100000(CrIII)* *1000*
GP6 (28-30') [south of existing garage area, with lifts, drain and oil storage, and near separator unit]	6/20/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium Lead No Ethylene Glycol	 5.2 5.2	 *100000(CrIII)* *400*	 *100000(CrIII)* *800*	 *100000(CrIII)* *1000*
GP7 (28-30') [west of existing garage area, with lifts, drain and oil storage]	6/20/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium Lead No Ethylene Glycol	 5.9 5.3	 *100000(CrIII)* *400*	 *100000(CrIII)* *800*	 *100000(CrIII)* *1000*

Results reported in mg/kg (milligrams per kilogram; parts per million)
PAH: polycyclic aromatic hydrocarbons via Method 8270
VOC: volatile organic compound via Method 8260
(CrIII) : a published level for total chromium has not been established and chromium III levels are referenced.
**IDEM's July 8,2022 *Risk-Based Closure Guide* (R2) published levels do not specify long term residential or commercial soil direct contact levels for VOCs

As indicated, laboratory soil testing found no detectable concentrations of VOCs, PAHs, arsenic, cadmium, or ethylene glycol. The metals, chromium and lead, were detected in soil samples; however, these metals occur naturally in soils and the detected concentrations were well below *published human health levels.*

3.4.3 Groundwater Testing Results

Groundwater samples were retained from each boring/sampling location for a total of seven samples. At each sampling location, a groundwater sample was collected and analyzed for volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs) as a screening for solvent and petroleum. At sampling locations positioned around the existing and former garages, the collected groundwater samples were also analyzed for ethylene glycol, as a screening for antifreeze; and for arsenic, cadmium, chromium and lead as a screening for used oils. At sampling locations located hydraulically down-gradient of the garage, identified as GP5, GP6, and GP7, groundwater samples were also analyzed for oil and grease as a screening for automotive fuels and lubricants.

Groundwater testing results are summarized in the following table and Figure 5. IDEM's *Human Health Levels* are also included for reference. Laboratory reports are included in Appendix B.

Table 4. Groundwater Testing Results
Fort Wayne Community Schools – Transportation South
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Sample ID [general location]	**Sample Date**	**Detected Parameter**		***IDEM R2 Human Health Level – Groundwater Published Level (ug/l)***
		Parameter	**Concentration (ug/l)**	
GP1 [between UST area and former garage area]	6/21/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium, total Lead, total No Ethylene Glycol	 78 23	 *100* *15*
GP2 [between fueling area and former garage area]	6/21/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium, total Lead, total No Ethylene Glycol	 73 15	 *100* *15*
GP3 [at UST area/fueling area]	6/21/2023	No VOCs Detected No PAHs Detected		
GP4 [at UST area/fueling area]	6/21/2023	No VOCs Detected No PAHs Detected		
GP5 [north of existing garage area, with lifts, drain and oil storage]	6/21/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium, total No Lead Detected No Ethylene Glycol No Oil & Grease	 17	 *100*

continued next page

Table 4 Continued. Groundwater Testing Results
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Sample ID [general location]	Sample Date	Detected Parameter		*IDEM R2 Human Health Level – Groundwater Published Level (ug/l)*
		Parameter	Concentration (ug/l)	
GP6 [south of existing garage area, with lifts, drain and oil storage, and near separator unit]	6/21/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium, total No Lead Detected No Ethylene Glycol No Oil & Grease	14	*100*
GP7 [west of existing garage area, with lifts, drain and oil storage]	6/21/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium, total No Lead Detected No Ethylene Glycol No Oil & Grease	18	*100*
GP8 [duplicate of GP6]	6/21/2023	No VOCs Detected No PAHs Detected No Arsenic Detected No Cadmium Detected Chromium, total No Lead Detected No Ethylene Glycol No Oil & Grease	15	*100*
Trip Blank	6/20/2023	No VOCs Detected		

Results reported in ug/l (micrograms per liter; parts per billion)
PAH: polycyclic aromatic hydrocarbons via Method 8270
VOC: volatile organic compound via Method 8260
IDEM's July 8,2022 *Risk-Based Closure Guide* (R2)

As indicated, laboratory groundwater testing found no detectable concentrations of VOCs, PAHs, arsenic, cadmium, ethylene glycol, or oil & grease. The metals, chromium and lead, were detected in groundwater samples; however, these metals occur naturally and the detected chromium concentrations were well below the *published human health level.* The total lead concentration at GP1 was slightly higher than the *published human health level.*

SES field staff observed suspended solids during groundwater sampling, and the groundwater was turbid. In these situations, particles and suspended solids can affect the results for naturally occurring metals. Due to turbidity and suspended solids, total lead concentration can be bias high.

4.0 SUMMARY

This Phase II assessment found no evidence of petroleum, oils, glycol, grease, or solvent contamination (e.g., no evidence of a historical release of petroleum or hazardous substance). Furthermore, field evidence of contamination (as staining or odor) was not apparent at any sampling location.

- Native clay soil was present beneath the pavement materials and extended to depths of approximately 3 to 7 feet, followed by sand extending to a depth of at least 35 feet (depth of exploration). Depth to groundwater was generally 31 feet. Groundwater flow to the southwest was inferred. Field evidence of soil contamination, as petroleum odors, were not observed nor were elevated (> 6 ppmv) PID responses.

- Soil sampling and testing found no detectable concentrations of VOCs, PAHs, arsenic, cadmium, or ethylene glycol. The metals, chromium and lead, were detected in soil samples; however, these metals occur naturally in soils and the detected concentrations were well below *published human health levels.*

- Groundwater sampling and testing found no detectable concentrations of VOCs, PAHs, arsenic, cadmium, ethylene glycol, or oil & grease. The metals, chromium and lead, were detected in groundwater samples; however, these metals occur naturally and the detected chromium concentrations were well below the *published human health level.* The total lead concentration at GP1 was slightly higher than the *published human health level.* Due to observed turbidity and suspended solids in the groundwater samples, total lead concentration can be bias high.

5.0 OPINIONS AND RECOMMENDATIONS

A Phase II assessment was conducted to further assess *recognized environmental conditions (RECs)* identified in SES's *Phase I Environmental Site Assessment* dated June 2, 2023. Specifically, sampling was conducted at four locations near the existing UST and fuel dispensing area (REC #1). In addition, borings were advanced around the perimeter of the maintenance service/garage, as well as near the separator (REC #2). Soil and groundwater sampling/testing was completed at each boring. In brief, this Phase II assessment did not find significant evidence of a historical release of petroleum or hazardous substance.

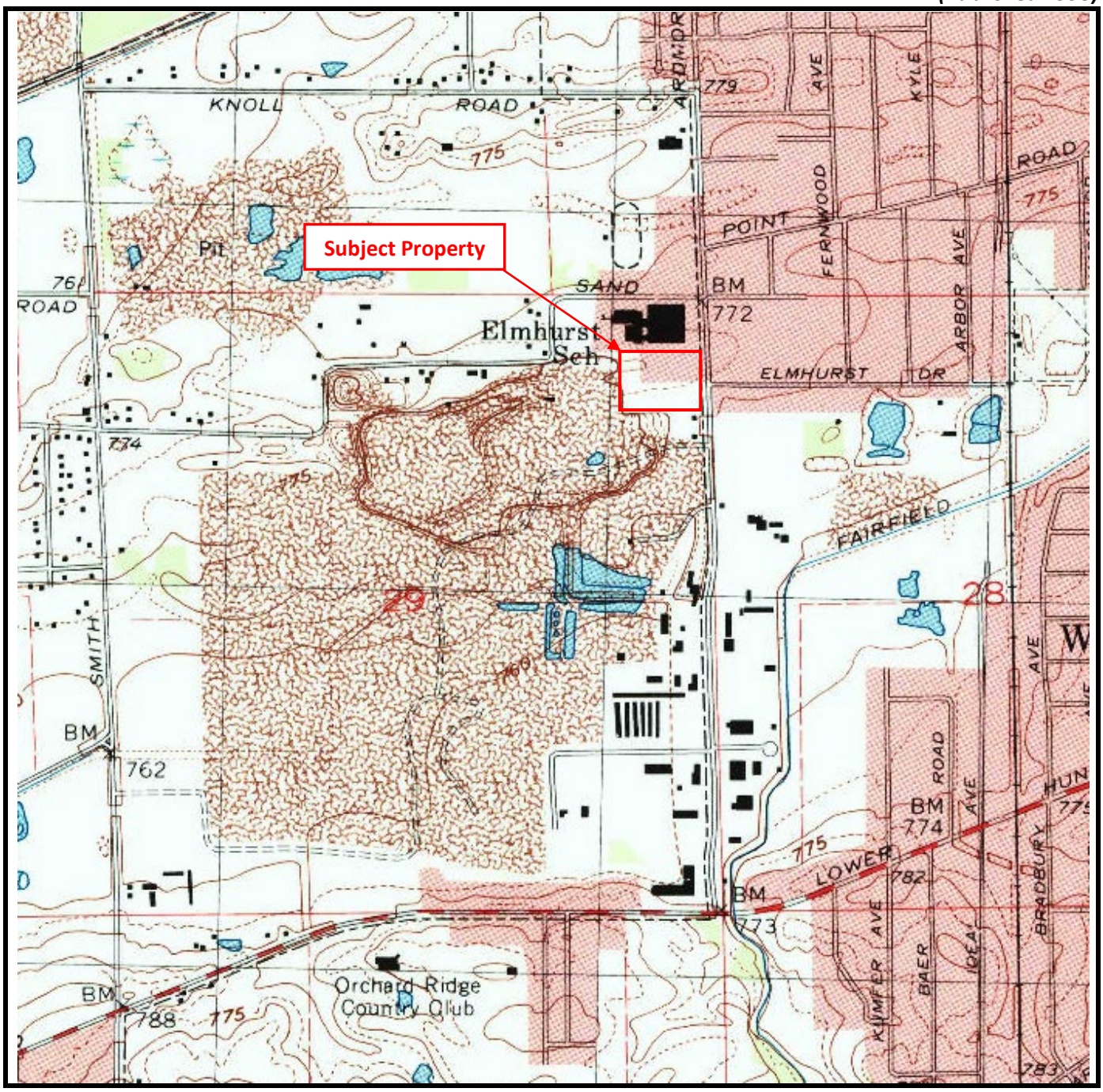
Phase II assessment is complete and based on the above, no further assessment or corrective action is necessary at this time.

PHASE II ENVIRONMENTAL SITE ASSESSMENT

FIGURES

Fort Wayne Community Schools – Transportation South
6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana 46809
SES Phase II ESA Project No.: 2023-0635

Fort Wayne West, Indiana 7.5 Minute Quadrangle Map
(Published 1998)

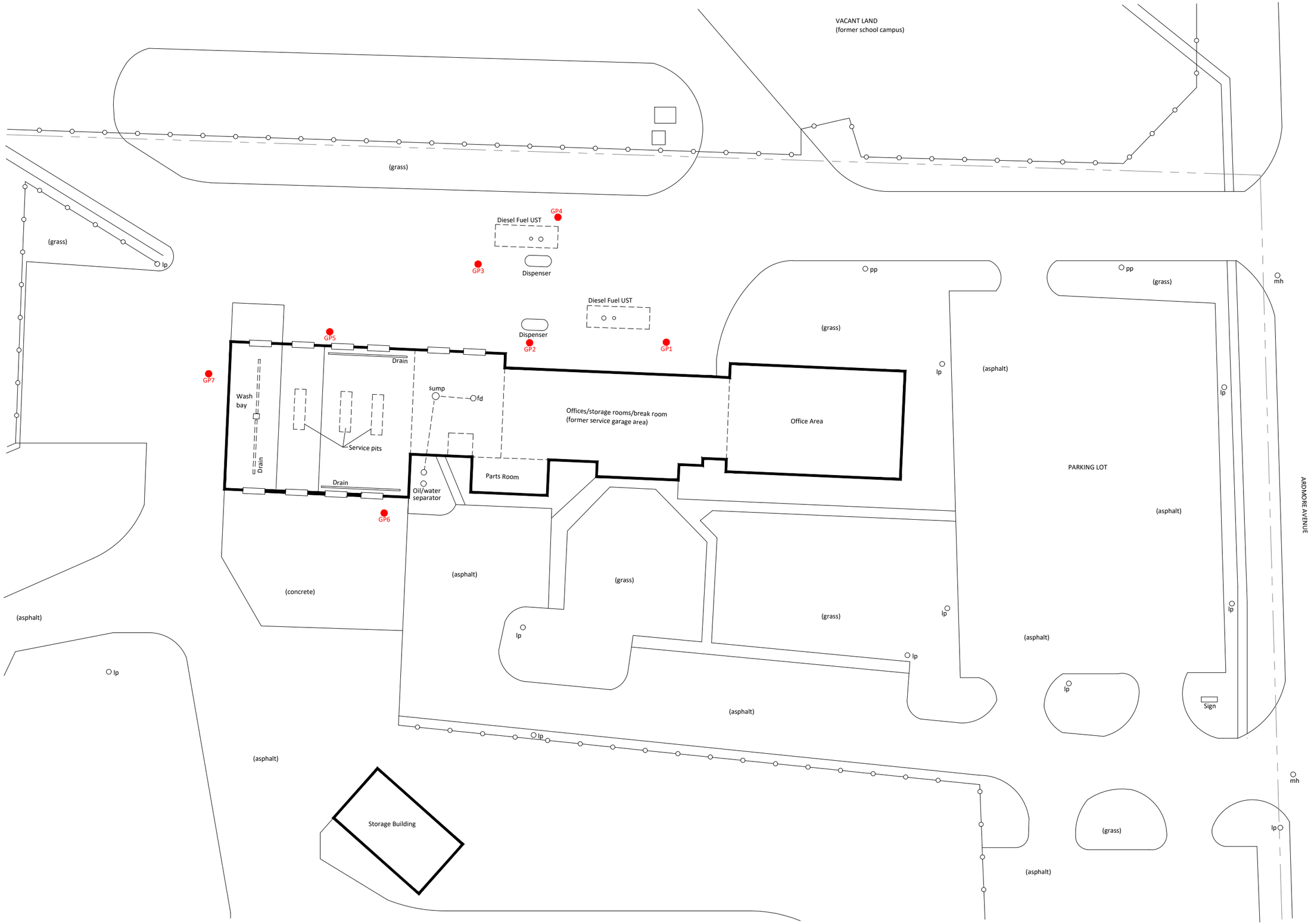


CONTOUR INTERVAL 10 FEET
Site Boundaries Shown are Approximate

Topographic Map **Figure 1**

FWCS - Transportation South
6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana 46809
SES Project No.: 2023-0635

SES



FWCS
WE ARE YOUR SCHOOLS

6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana

Title

SITE MAP

Legend

- FACILITY BOUNDARY
- FENCE LINE
- cb CATCH BASIN
- pp POWER POLE
- mh MANHOLE
- lp LIGHT POLE
- SOIL BORING

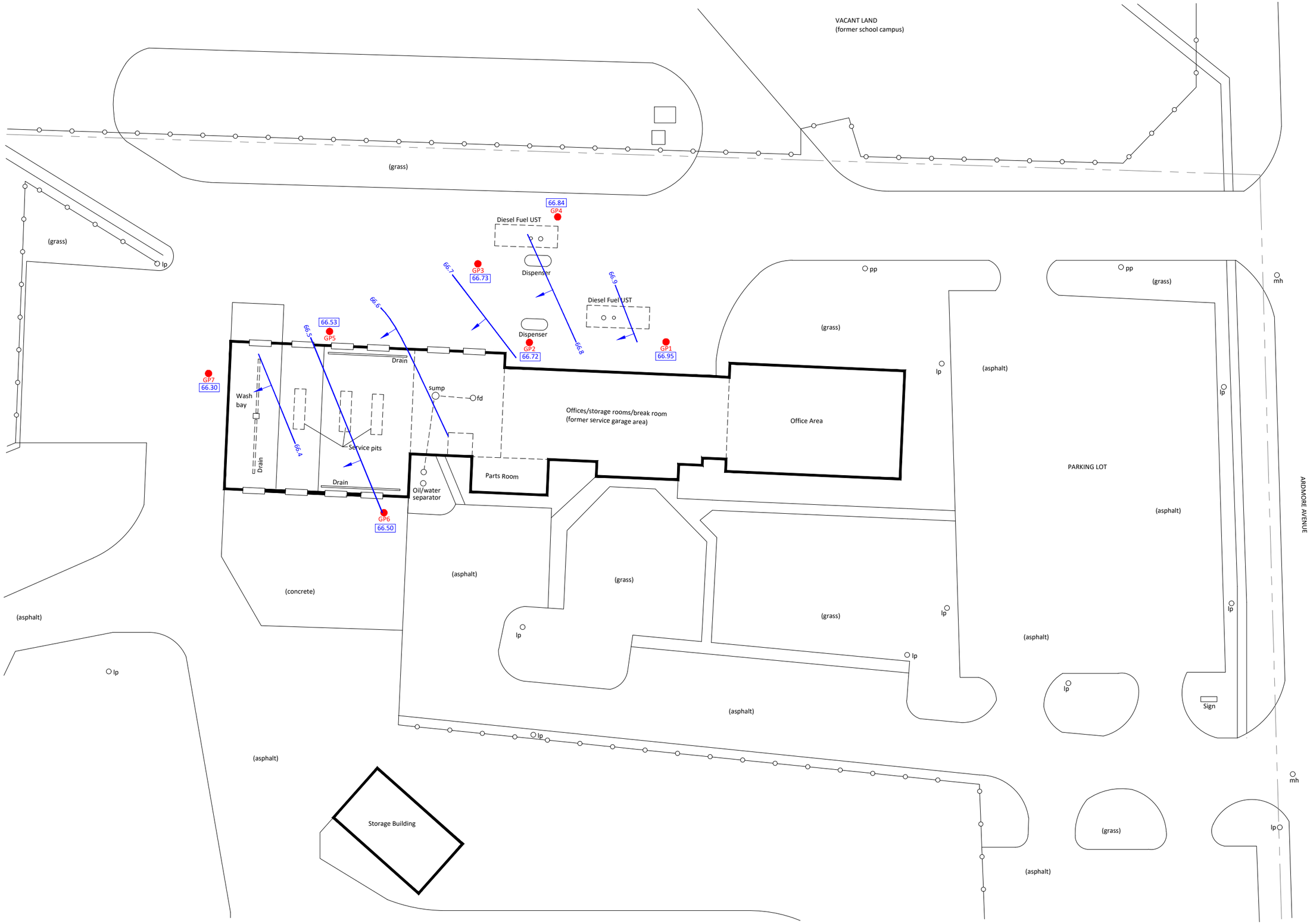
Notes

Project	Scale
2022635	1"= 40'
Date	Checked
7/6/23	gh
Drawn	Figure
dn	2
File	
2022635	

N

0 20' 40'

SES



WE ARE YOUR SCHOOLS

6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana

Title

INFERRED GROUNDWATER FLOW
(21-Jun-23)

Legend

- FACILITY BOUNDARY
- FENCE LINE
- cb CATCH BASIN
- pp POWER POLE
- mh MANHOLE
- lp LIGHT POLE
- SOIL BORING
- 66.50 RELATIVE GROUNDWATER ELEVATION (FT)

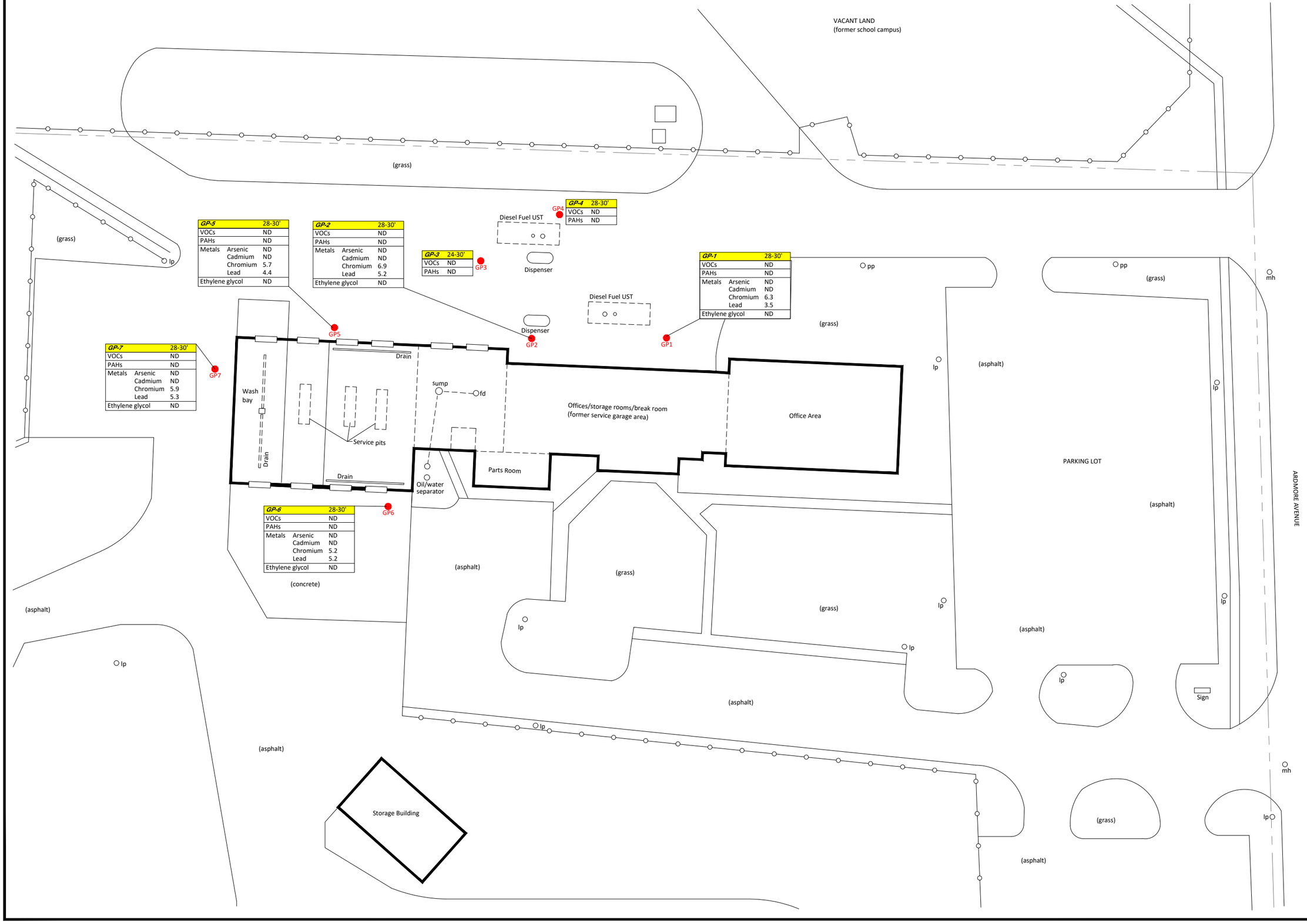
Notes

Project	Scale
2022635	1"= 40'
Date	Checked
7/6/23	gh
Drawn	Figure
dn	3
File	
2022635	

N

0 20' 40'

SES



FWCS
WE ARE YOUR SCHOOLS

6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana

Title

SOIL TESTING RESULTS
(20-Jun-23)

Legend

- FACILITY BOUNDARY
- FENCE LINE
- cb CATCH BASIN
- pp POWER POLE
- mh MANHOLE
- lp LIGHT POLE
- SOIL BORING

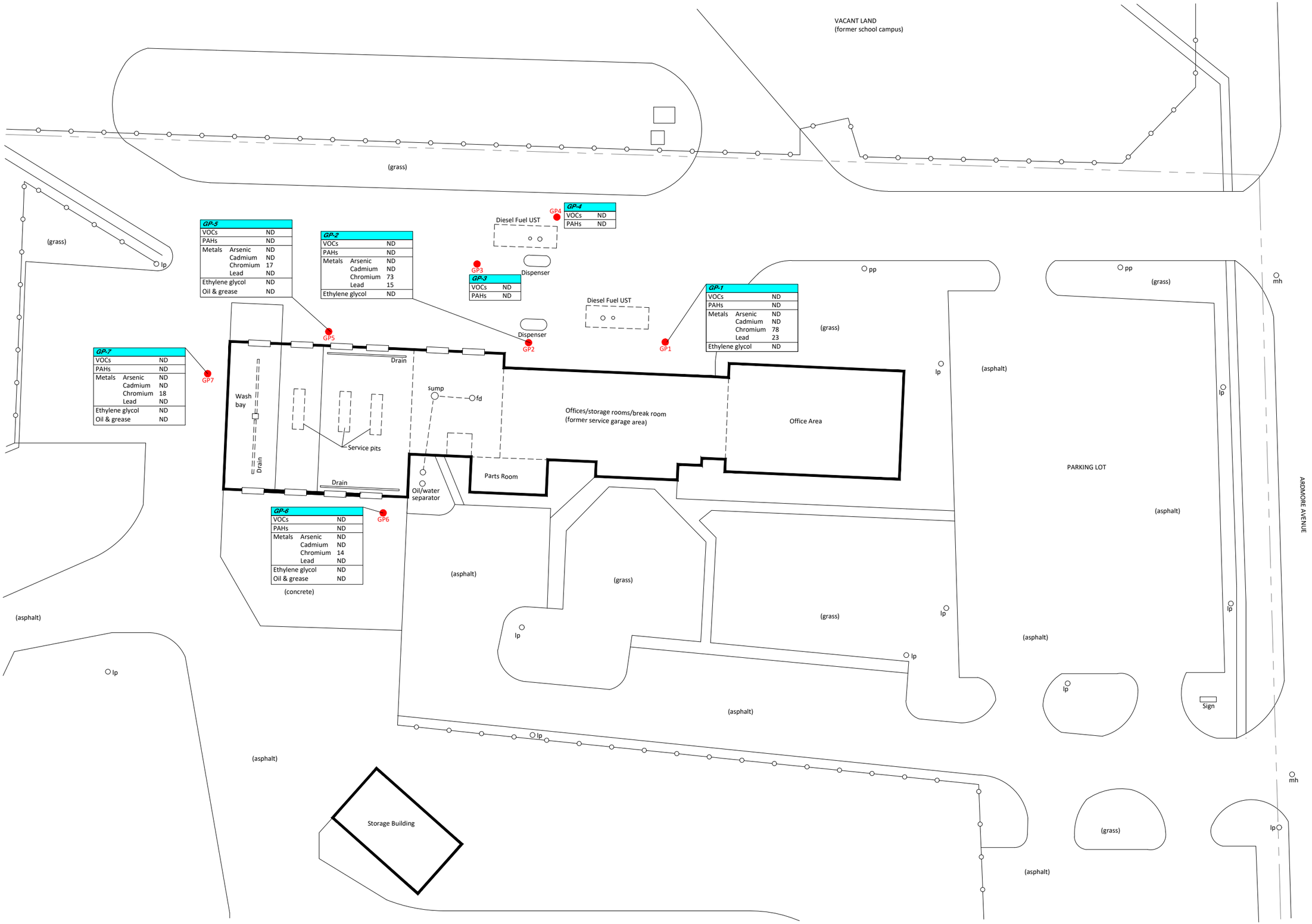
Notes

Project	Scale
2022635	1"= 40'
Date	Checked
7/6/23	gh
Drawn	Figure
dn	4
File	
2022635	

N

0 20' 40'

SES



FWCS
WE ARE YOUR SCHOOLS

6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana

Title

GROUNDWATER TESTING RESULTS (21-Jun-23)

Legend

- FACILITY BOUNDARY
- FENCE LINE
- cb CATCH BASIN
- pp POWER POLE
- mh MANHOLE
- lp LIGHT POLE
- SOIL BORING

Notes

1. Concentrations reported in ug/L (ppb)

Project 2022635	Scale 1"= 40'
Date 7/6/23	Checked gh
Drawn dn	Figure 5
File 2022635	

N

0 20' 40'

ASES

PHASE II ENVIRONMENTAL SITE ASSESSMENT

APPENDIX A. SOIL BORING LOGS

Fort Wayne Community Schools – Transportation South
6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana 46809
SES Phase II ESA Project No.: 2023-0635

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: GP1

Client: Fort Wayne Community Schools
Project Name: Transporation South
Project Number: 2013-0635
Project Location: 6006 Ardmore Ave, Fort Wayne, IN

Drilling Contractor: Seratech Drilling & Exploration
Driller Name: Sean Hall
Driller Number: 4392 WD
Drilling Method: Geoprobe 7822 DT
Logged By: Lyndsay Kahlenbeck
Date Started: 6/20/23 Completed: 6/20/23

Ground Elevation:
Top of Casing Elevation: 97.26
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 30
▼ At End of Drilling: 30.31

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction GP1
	GP 0-2		6		Asphalt Surface -0.3	0.1			1" PVC Riser
	GP 2-4		6		Pea gravel -3	0.1			
6	GP 4-6		6		Brown CLAY: moist, soft, with trace sand -6	0.1		CL	
	GP 6-8		8		Brown SAND: moist, fine to coarse grained	0.1			
	GP 8-10		8			0.1			
12	GP 10-12		10			0.2			
	GP 12-14		10			0.2			
	GP 14-16		10		Brown SAND: moist, fine grained	0.1			
18	GP 16-18		10			0.1			
	GP 18-20		10			0.1			
	GP 20-22		18		Brown/gray SAND: moist, medium to coarse grained with trace gravel	0.1		SP	
24	GP 22-24		18			0.1			
	GP 24-26		18		Gray SAND: moist, fine to medium grained with trace gravel	0.1			
	GP 26-28		18			0.1			
30	GP 28-30	LAB	18			0.2			
	GP 30-32		12		▽▼ Gray SAND: saturated, fine to coarse grained with trace gravel	0.1			1" Slotted PVC Screen
	GP 32-34		12			0.1			PVC removed after water sampling and void filled with bentonite
	GP 34-35		6		-35	0.1			
36					End of Boring				

PID (ppmv) Profile: 0 – 1000

Notes: Location A

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: GP2

Client: Fort Wayne Community Schools
Project Name: Transporation South
Project Number: 2013-0635
Project Location: 6006 Ardmore Ave, Fort Wayne, IN

Drilling Contractor: Seratech Drilling & Exploration
Driller Name: Sean Hall
Driller Number: 4392 WD
Drilling Method: Geoprobe 7822 DT
Logged By: Lyndsay Kahlenbeck
Date Started: 6/20/23 Completed: 6/20/23

Ground Elevation:
Top of Casing Elevation: 97.24
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 30
▼ At End of Drilling: 30.52

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–1000	Graphic	USCS Classification	Well Construction GP2
	GP 0-2		12		Asphalt Surface -0.3	0.1				1" PVC Riser
	GP 2-4		12		Base gravel -1 Brown CLAY: moist, soft, with trace sand	0.1				
6	GP 4-6		9			0.2			CL	
	GP 6-8		8		-7 Brown SAND: moist, fine to coarse grained	0.2				
	GP 8-10		8			0.2				
12	GP 10-12		9			0.2				
	GP 12-14		9			0.1				
	GP 14-16		9			0.1				
18	GP 16-18		12		Brown/gray SAND: moist, medium to coarse grained with trace gravel	0.1				
	GP 18-20		12			0.1				
	GP 20-22		12			0.1			SP	
24	GP 22-24		12			0.1				
	GP 24-26		12			0.1				
	GP 26-28		12			0.2				
30	GP 28-30	LAB	12			0.2				
	GP 30-32		12		▽▼ Gray SAND: saturated, fine to medium grained with trace gravel	0.1				1" Slotted PVC Screen
	GP 32-34		12			0.1				PVC removed after water sampling and void filled with bentonite
	GP 34-35		6			0.1				
36					-35 End of Boring					

Notes: Location B

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: GP3

Client: Fort Wayne Community Schools
Project Name: Transporation South
Project Number: 2013-0635
Project Location: 6006 Ardmore Ave, Fort Wayne, IN

Drilling Contractor: Seratech Drilling & Exploration
Driller Name: Sean Hall
Driller Number: 4392 WD
Drilling Method: Geoprobe 7822 DT
Logged By: Lyndsay Kahlenbeck
Date Started: 6/20/23 Completed: 6/20/23

Ground Elevation:
Top of Casing Elevation: 97.05
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling: 30.32

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction GP3
	GP 0-2		12		Concrete Surface -0.3	0.1			1" PVC Riser
	GP 2-4		12		Base gravel -2 Brown CLAY: moist, soft, with trace sand	0.1		CL	
6	GP 4-6		12		-5	0.1			
	GP 6-8		12		Brown SAND: moist, fine to medium grained with trace gravel	0.2			
	GP 8-10		12			0.2			
12	GP 10-12		18			0.1			
	GP 12-14		18			0.1			
	GP 14-16		18		Gray/brown SAND: moist, fine to medium grained	0.1			
18	GP 16-18		18			0.2			
	GP 18-20		18			0.1			
	GP 20-22		18		Gray SAND: moist, fine to medium grained with trace gravel	0.1		SP	
24	GP 22-24		18			0.1			
	GP 24-26	LAB	9			0.2			
	GP 26-28		0		No Recovery: presumed SAND	NA			
30	GP 28-30		0			NA			
	GP 30-32		0		▼	NA			1" Slotted PVC Screen
	GP 32-34		0			NA			PVC removed after water sampling and void filled with bentonite
	GP 34-35		0			NA			
36					-35 End of Boring				

Notes: West un-labeled location

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: GP4

Client: Fort Wayne Community Schools
Project Name: Transporation South
Project Number: 2013-0635
Project Location: 6006 Ardmore Ave, Fort Wayne, IN

Drilling Contractor: Seratech Drilling & Exploration
Driller Name: Sean Hall
Driller Number: 4392 WD
Drilling Method: Geoprobe 7822 DT
Logged By: Lyndsay Kahlenbeck
Date Started: 6/20/23 Completed: 6/20/23

Ground Elevation:
Top of Casing Elevation: 95.54
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 30
▼ At End of Drilling: 28.70

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction GP4
	GP 0-2		18		Asphalt Surface -0.3	0.1			1" PVC Riser
	GP 2-4		18		Base gravel -1 Brown CLAY: moist, soft, with trace sand and gravel	0.1		CL	
6	GP 4-6		18		-4 Brown SAND: moist, fine to coarse grained with trace gravel	0.1			
	GP 6-8		18			0.2			
	GP 8-10		18			0.2			
12	GP 10-12		18		Brown SAND: moist, fine to medium grained with trace gravel	0.5			
	GP 12-14		18			0.7			
	GP 14-16		18			1.8			
18	GP 16-18		18		Brown SAND: moist, fine to medium grained	0.2			
	GP 18-20		18			0.2		SP	
	GP 20-22		18		Gray SAND: moist, fine to medium grained with trace gravel	0.5			
24	GP 22-24		18			1.2			
	GP 24-26		18			2.4			
	GP 26-28		18			4.6			
30	GP 28-30	LAB	18		▼	5.7			
	GP 30-32		18		▽ Gray SAND: saturated, fine to medium grained with trace gravel	3.2			1" Slotted PVC Screen
	GP 32-34		18			2.4			PVC removed after water sampling and void filled with bentonite
36	GP 34-35		9		-35 End of Boring	0.5			

Notes: East un-labeled location

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: GP5

Client: Fort Wayne Community Schools
Project Name: Transporation South
Project Number: 2013-0635
Project Location: 6006 Ardmore Ave, Fort Wayne, IN

Drilling Contractor: Seratech Drilling & Exploration
Driller Name: Sean Hall
Driller Number: 4392 WD
Drilling Method: Geoprobe 7822 DT
Logged By: Lyndsay Kahlenbeck
Date Started: 6/20/23 Completed: 6/20/23

Ground Elevation:
Top of Casing Elevation: 97.37
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 30
▼ At End of Drilling: 30.84

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	USCS Classification	Well Construction GP5
	GP 0-2		18		Asphalt Surface -0.3	0.0		1" PVC Riser
	GP 2-4		18		Base gravel/sand -1 Brown CLAY: moist, stiff, with trace sand and gravel	0.0	CL	
6	GP 4-6		18		-4 Brown SAND: moist, fine to coarse grained with trace gravel	0.1		
	GP 6-8		18			0.1		
	GP 8-10		18			0.1		
12	GP 10-12		18			0.1		
	GP 12-14		18			0.1		
	GP 14-16		18		Brown/gray SAND: moist, fine to medium grained	0.2		
18	GP 16-18		18			0.2		
	GP 18-20		18			0.2	SP	
	GP 20-22		18		Gray/brown SAND: moist, fine to coarse grained with trace gravel	0.2		
24	GP 22-24		18			0.1		
	GP 24-26		18			0.1		
	GP 26-28		18			0.2		
30	GP 28-30	LAB	18			0.5		
	GP 30-32		18		▽▼ Gray SAND: saturated, fine to medium grained with trace gravel	0.2		1" Slotted PVC Screen
	GP 32-34		18			0.1		PVC removed after water sampling and void filled with bentonite
36	GP 34-35		9		-35 End of Boring	0.1		

Notes: Location C

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: GP6

Client: Fort Wayne Community Schools
Project Name: Transporation South
Project Number: 2013-0635
Project Location: 6006 Ardmore Ave, Fort Wayne, IN

Drilling Contractor: Seratech Drilling & Exploration
Driller Name: Sean Hall
Driller Number: 4392 WD
Drilling Method: Geoprobe 7822 DT
Logged By: Lyndsay Kahlenbeck
Date Started: 6/20/23 Completed: 6/20/23

Ground Elevation:
Top of Casing Elevation: 97.24
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 30
▼ At End of Drilling: 30.74

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction GP6
	GP 0-2		12		Concrete Surface -0.3	0.2			1" PVC Riser
	GP 2-4		12		Base gravel/sand -0.5 Brown CLAY: moist, medium stiff, with trace sand and gravel	0.2		CL	
6	GP 4-6		12			0.2			
	GP 6-8		12		-6 Brown SAND: moist, fine to coarse grained	0.2			
	GP 8-10		12			0.2			
12	GP 10-12		12			0.3			
	GP 12-14		12			0.3			
	GP 14-16		12		Brown SAND: moist, fine to medium grained	0.2			
18	GP 16-18		12			0.2			
	GP 18-20		12			0.2			
	GP 20-22		12			0.3		SP	
24	GP 22-24		12		Brown SAND: moist, medium to coarse grained with trace gravel	0.3			
	GP 24-26		12		Brown SAND: moist, fine to medium grained with trace gravel	0.3			
	GP 26-28		12		Gray SAND: moist, fine to coarse grained, with trace gravel	0.3			
30	GP 28-30	LAB	12			0.6			
	GP 30-32		12		▽▼ Gray SAND: saturated, fine to medium grained with trace gravel	0.2			1" Slotted PVC Screen
	GP 32-34		12			0.2			PVC removed after water sampling and void filled with bentonite
	GP 34-35		6			0.1			
36					-35 End of Boring				

Notes: Location E

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: GP7

Client: Fort Wayne Community Schools
Project Name: Transporation South
Project Number: 2013-0635
Project Location: 6006 Ardmore Ave, Fort Wayne, IN

Drilling Contractor: Seratech Drilling & Exploration
Driller Name: Sean Hall
Driller Number: 4392 WD
Drilling Method: Geoprobe 7822 DT
Logged By: Lyndsay Kahlenbeck
Date Started: 6/20/23 Completed: 6/20/23

Ground Elevation:
Top of Casing Elevation: 96.36
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 30
▼ At End of Drilling: 30.04

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction GP7
	GP 0-2		12		Asphalt Surface -0.3	0.2			1" PVC Riser
	GP 2-4		12		Base gravel/sand -0.5	0.2		CL	
6	GP 4-6		12		Brown CLAY: moist, medium stiff, with trace sand and gravel -3 Brown SAND: moist, fine to medium grained	0.2			
	GP 6-8		12			0.2			
	GP 8-10		12			0.2			
12	GP 10-12		12		Brown SAND: moist, fine to coarse grained with trace gravel	0.3			
	GP 12-14		12			0.3			
	GP 14-16		12			0.2			
18	GP 16-18		12		Brown SAND: moist, fine to medium grained	0.2			
	GP 18-20		12			0.2		SP	
	GP 20-22		12			0.3			
24	GP 22-24		12		Gray SAND: moist, medium to coarse grained with trace gravel	0.3			
	GP 24-26		12			0.3			
	GP 26-28		12			0.3			
30	GP 28-30	LAB	12			0.6			
	GP 30-32		12		▼ Gray SAND: saturated, fine to medium grained with trace gravel	0.2			1" Slotted PVC Screen
	GP 32-34		12			0.2			PVC removed after water sampling and void filled with bentonite
36	GP 34-35		6		-35 End of Boring	0.1			

PID (ppmv) Profile: 0 – 1000

Notes: Location D

PHASE II ENVIRONMENTAL SITE ASSESSMENT

APPENDIX B. LABORATORY REPORTS

Fort Wayne Community Schools – Transportation South
6006 Ardmore Avenue
Fort Wayne, Allen County, Indiana 46809
SES Phase II ESA Project No.: 2023-0635

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Mr. Glen Howard
SES Environmental
3807 Transportation Drive
Fort Wayne, IN 46818

July 5, 2023

ENVision Project Number: 2023-1278
Client Project Name: 2023-0635

Dear Mr. Howard,

Please find the attached analytical report for the samples received June 22, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062523VS

Client Sample ID: GP 1 28-30 **Sample Collection Date/Time:** 6/20/23 10:15
Envision Sample Number: 23-12311 **Sample Received Date/Time:** 6/22/23 14:30
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.104	0.104	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.052	0.052	
2-Butanone (MEK)	< 0.010	0.010	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.052	0.052	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.104	0.104	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.010	0.010	
2-Hexanone	< 0.010	0.010	
Iodomethane	< 0.010	0.010	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.010	0.010	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.010	0.010	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.010	0.010	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	6-25-23/21:47		
Analyst Initials	tjg		
Percent Solids:	96%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062723PS2

Client Sample ID: GP 1 28-30
Envision Sample Number: 23-12311
Sample Matrix: soil

Sample Collection Date/Time: 6/20/23 10:15
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.069	0.069	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.069	0.069	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.069	0.069	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.35	0.35	
Nitrobenzene-d5 (surrogate)	68%		
2-Fluorobiphenyl (surrogate)	64%		
p-Terphenyl-d14 (surrogate)	87%		
Analysis Date/Time:	6-28-23/12:07		
Analyst Initials:	NR		
Date Extracted:	6/27/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 96%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: GP 1 28-30
Envision Sample Number: 23-12311
Sample Matrix: soil

Sample Collection Date/Time: 6/20/23 10:15
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Cadmium	< 2	2	
Chromium	**6.3**	2	
Lead	**3.5**	2	

Analysis Date/Time: 6-29-23/13:20
Analyst Initials: gjd
Date Digested: 6/28/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062923icp

Percent Solids 96%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Client Sample ID:	GP 1 28-30	**Sample Collection Date/Time:**	6/20/23	10:15
Envision Sample Number:	23-12311	**Sample Received Date/Time:**	6/22/23	14:30
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	4.0%		EPA 1684
Percent Solids	96.0%		EPA 1684
Analysis Date:	6/29/23		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062523VS

Client Sample ID: GP 2 28-30
Envision Sample Number: 23-12312
Sample Matrix: soil

Sample Collection Date/Time: 6/20/23 11:40
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.106	0.106	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.106	0.106	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	109%		
1,2-Dichloroethane-d4 (surrogate)	116%		
Toluene-d8 (surrogate)	89%		
4-bromofluorobenzene (surrogate)	116%		
Analysis Date/Time:	6-25-23/20:59		
Analyst Initials	tjg		
Percent Solids:	94%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062723PS2

Client Sample ID: GP 2 28-30
Envision Sample Number: 23-12312
Sample Matrix: soil
Sample Collection Date/Time: 6/20/23 11:40
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.071	0.071	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.071	0.071	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.071	0.071	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.35	0.35	
Nitrobenzene-d5 (surrogate)	80%		
2-Fluorobiphenyl (surrogate)	67%		
p-Terphenyl-d14 (surrogate)	94%		
Analysis Date/Time:	6-28-23/12:33		
Analyst Initials:	NR		
Date Extracted:	6/27/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 94%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: GP 2 28-30
Envision Sample Number: 23-12312
Sample Matrix: soil

Sample Collection Date/Time: 6/20/23 11:40
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Cadmium	< 2	2	
Chromium	**6.9**	2	
Lead	**5.2**	2	

Analysis Date/Time: 6-29-23/13:23
Analyst Initials: gjd
Date Digested: 6/28/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062923icp

Percent Solids 94%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Client Sample ID:	GP 2 28-30	**Sample Collection Date/Time:**	6/20/23	11:40
Envision Sample Number:	23-12312	**Sample Received Date/Time:**	6/22/23	14:30
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	6.0%		EPA 1684
Percent Solids	94.0%		EPA 1684
Analysis Date:	6/29/23		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062523VS

Client Sample ID: GP 3 24-25 **Sample Collection Date/Time:** 6/20/23 12:35
Envision Sample Number: 23-12313 **Sample Received Date/Time:** 6/22/23 14:30
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.106	0.106	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.106	0.106	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	104%		
1,2-Dichloroethane-d4 (surrogate)	111%		
Toluene-d8 (surrogate)	91%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	6-25-23/21:15		
Analyst Initials	tjg		
Percent Solids:	94%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062723PS2

Client Sample ID: GP 3 24-25
Envision Sample Number: 23-12313
Sample Matrix: soil

Sample Collection Date/Time: 6/20/23 12:35
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.071	0.071	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.071	0.071	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.071	0.071	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.35	0.35	
Nitrobenzene-d5 (surrogate)	83%		
2-Fluorobiphenyl (surrogate)	72%		
p-Terphenyl-d14 (surrogate)	91%		
Analysis Date/Time:	6-28-23/12:59		
Analyst Initials:	NR		
Date Extracted:	6/27/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 94%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Client Sample ID:	GP 3 24-25	**Sample Collection Date/Time:**	6/20/23	12:35
Envision Sample Number:	23-12313	**Sample Received Date/Time:**	6/22/23	14:30
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	6.0%		EPA 1684
Percent Solids	94.0%		EPA 1684
Analysis Date:	6/29/23		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062523VS

Client Sample ID: GP 4 28-30 **Sample Collection Date/Time:** 6/20/23 13:28
Envision Sample Number: 23-12314 **Sample Received Date/Time:** 6/22/23 14:30
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.105	0.105	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.105	0.105	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	116%		
1,2-Dichloroethane-d4 (surrogate)	102%		
Toluene-d8 (surrogate)	90%		
4-bromofluorobenzene (surrogate)	85%		
Analysis Date/Time:	6-25-23/21:30		
Analyst Initials	tjg		
Percent Solids:	95%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062723PS2

Client Sample ID: GP 4 28-30
Envision Sample Number: 23-12314
Sample Matrix: soil
Sample Collection Date/Time: 6/20/23 13:28
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.070	0.070	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.070	0.070	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.070	0.070	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.35	0.35	
Nitrobenzene-d5 (surrogate)	71%		
2-Fluorobiphenyl (surrogate)	68%		
p-Terphenyl-d14 (surrogate)	91%		
Analysis Date/Time:	6-28-23/13:25		
Analyst Initials:	NR		
Date Extracted:	6/27/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 95%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Client Sample ID:	GP 4 28-30	**Sample Collection Date/Time:**	6/20/23	13:28
Envision Sample Number:	23-12314	**Sample Received Date/Time:**	6/22/23	14:30
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	5.0%		EPA 1684
Percent Solids	95.0%		EPA 1684
Analysis Date:	6/29/23		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062523VS

Client Sample ID: GP 5 28-30 **Sample Collection Date/Time:** 6/20/23 14:28
Envision Sample Number: 23-12315 **Sample Received Date/Time:** 6/22/23 14:30
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.103	0.103	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.052	0.052	
2-Butanone (MEK)	< 0.010	0.010	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.052	0.052	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.103	0.103	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.010	0.010	
2-Hexanone	< 0.010	0.010	
Iodomethane	< 0.010	0.010	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.010	0.010	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.010	0.010	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.010	0.010	
Dibromofluoromethane (surrogate)	108%		
1,2-Dichloroethane-d4 (surrogate)	115%		
Toluene-d8 (surrogate)	87%		
4-bromofluorobenzene (surrogate)	108%		
Analysis Date/Time:	6-25-23/22:03		
Analyst Initials	tjg		
Percent Solids:	97%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062723PS2

Client Sample ID: GP 5 28-30
Envision Sample Number: 23-12315
Sample Matrix: soil
Sample Collection Date/Time: 6/20/23 14:28
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.34	0.34	
Acenaphthylene	< 0.34	0.34	
Anthracene	< 0.34	0.34	
Benzo(a)anthracene	< 0.34	0.34	
Benzo(a)pyrene	< 0.069	0.069	
Benzo(b)fluoranthene	< 0.34	0.34	
Benzo(g,h,i)perylene	< 0.34	0.34	
Benzo(k)fluoranthene	< 0.34	0.34	
Chrysene	< 0.34	0.34	
Dibenzo(a,h)anthracene	< 0.069	0.069	
Fluoranthene	< 0.34	0.34	
Fluorene	< 0.34	0.34	
Indeno(1,2,3-cd)pyrene	< 0.34	0.34	
1-methylnaphthalene	< 0.34	0.34	
2-methylnaphthalene	< 0.34	0.34	
Naphthalene	< 0.069	0.069	
Phenanthrene	< 0.34	0.34	
Pyrene	< 0.34	0.34	
Nitrobenzene-d5 (surrogate)	91%		
2-Fluorobiphenyl (surrogate)	84%		
p-Terphenyl-d14 (surrogate)	112%		
Analysis Date/Time:	6-28-23/13:51		
Analyst Initials:	NR		
Date Extracted:	6/27/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 97%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: GP 5 28-30
Envision Sample Number: 23-12315
Sample Matrix: soil

Sample Collection Date/Time: 6/20/23 14:28
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Cadmium	< 2	2	
Chromium	**5.7**	2	
Lead	**4.4**	2	

Analysis Date/Time: 6-29-23/13:25
Analyst Initials: gjd
Date Digested: 6/28/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062923icp

Percent Solids 97%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Client Sample ID:	GP 5 28-30	**Sample Collection Date/Time:**	6/20/23	14:28
Envision Sample Number:	23-12315	**Sample Received Date/Time:**	6/22/23	14:30
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	3.0%		EPA 1684
Percent Solids	97.0%		EPA 1684
Analysis Date:	6/29/23		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062523VS

Client Sample ID: GP 6 28-30 **Sample Collection Date/Time:** 6/21/23 9:32
Envision Sample Number: 23-12316 **Sample Received Date/Time:** 6/22/23 14:30
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.104	0.104	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.052	0.052	
2-Butanone (MEK)	< 0.010	0.010	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.052	0.052	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00029	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.104	0.104	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.010	0.010	
2-Hexanone	< 0.010	0.010	
Iodomethane	< 0.010	0.010	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.010	0.010	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.010	0.010	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.010	0.010	
Dibromofluoromethane (surrogate)	110%		
1,2-Dichloroethane-d4 (surrogate)	115%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	6-25-23/22:18		
Analyst Initials	tjg		
Percent Solids:	96%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062723PS2

Client Sample ID: GP 6 28-30
Envision Sample Number: 23-12316
Sample Matrix: soil

Sample Collection Date/Time: 6/21/23 9:32
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.069	0.069	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.069	0.069	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.069	0.069	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.35	0.35	
Nitrobenzene-d5 (surrogate)	70%		
2-Fluorobiphenyl (surrogate)	68%		
p-Terphenyl-d14 (surrogate)	85%		
Analysis Date/Time:	6-28-23/14:17		
Analyst Initials:	NR		
Date Extracted:	6/27/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 96%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: GP 6 28-30
Envision Sample Number: 23-12316
Sample Matrix: soil

Sample Collection Date/Time: 6/21/23 9:32
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Cadmium	< 2	2	
Chromium	**5.2**	2	
Lead	**5.2**	2	

Analysis Date/Time: 6-29-23/13:27
Analyst Initials: gjd
Date Digested: 6/28/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062923icp

Percent Solids 96%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Client Sample ID:	GP 6 28-30	**Sample Collection Date/Time:**	6/21/23	9:32
Envision Sample Number:	23-12316	**Sample Received Date/Time:**	6/22/23	14:30
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	4.0%		EPA 1684
Percent Solids	96.0%		EPA 1684
Analysis Date:	6/29/23		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 062523VS

Client Sample ID: GP 7 28-30 **Sample Collection Date/Time:** 6/21/23 10:13
Envision Sample Number: 23-12317 **Sample Received Date/Time:** 6/22/23 14:30
Sample Matrix: soil

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.106	0.106	
Acrolein	< 0.00018	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.005	0.005	
Bromobenzene	< 0.005	0.005	
Bromochloromethane	< 0.005	0.005	
Bromodichloromethane	< 0.005	0.005	
Bromoform	< 0.005	0.005	
Bromomethane	< 0.005	0.005	
n-Butanol	< 0.053	0.053	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.005	0.005	
sec-Butylbenzene	< 0.005	0.005	
tert-Butylbenzene	< 0.005	0.005	
Carbon Disulfide	< 0.005	0.005	
Carbon Tetrachloride	< 0.005	0.005	
Chlorobenzene	< 0.005	0.005	
Chloroethane	< 0.005	0.005	
2-Chloroethylvinylether	< 0.053	0.053	
Chloroform	< 0.005	0.005	
Chloromethane	< 0.005	0.005	
2-Chlorotoluene	< 0.005	0.005	
4-Chlorotoluene	< 0.005	0.005	
1,2-Dibromo-3-chloropropane	< 0.0018	0.0018	
Dibromochloromethane	< 0.005	0.005	
1,2-Dibromoethane (EDB)	< 0.00030	0.001	1
Dibromomethane	< 0.005	0.005	
1,2-Dichlorobenzene	< 0.005	0.005	
1,3-Dichlorobenzene	< 0.005	0.005	
1,4-Dichlorobenzene	< 0.005	0.005	
trans-1,4-Dichloro-2-butene	< 0.005	0.005	
Dichlorodifluoromethane	< 0.005	0.005	
1,1-Dichloroethane	< 0.005	0.005	
1,2-Dichloroethane	< 0.005	0.005	
1,1-Dichloroethene	< 0.005	0.005	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.005	0.005	
trans-1,2-Dichloroethene	< 0.005	0.005	
1,2-Dichloropropane	< 0.005	0.005	
1,3-Dichloropropane	< 0.005	0.005	
2,2-Dichloropropane	< 0.005	0.005	
1,1-Dichloropropene	< 0.005	0.005	
1,3-Dichloropropene	< 0.005	0.005	
Ethylbenzene	< 0.005	0.005	
Ethyl methacrylate	< 0.106	0.106	
Hexachloro-1,3-butadiene	< 0.005	0.005	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.005	0.005	
p-Isopropyltoluene	< 0.005	0.005	
Methylene chloride	< 0.021	0.021	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.005	0.005	
n-Propylbenzene	< 0.005	0.005	
Styrene	< 0.005	0.005	
1,1,1,2-Tetrachloroethane	< 0.005	0.005	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	
Tetrachloroethene	< 0.005	0.005	
Toluene	< 0.005	0.005	
1,2,3-Trichlorobenzene	< 0.005	0.005	
1,2,4-Trichlorobenzene	< 0.005	0.005	
1,1,1-Trichloroethane	< 0.005	0.005	
1,1,2-Trichloroethane	< 0.005	0.005	
Trichloroethene	< 0.005	0.005	
Trichlorofluoromethane	< 0.005	0.005	
1,2,3-Trichloropropane	< 0.005	0.005	
1,2,4-Trimethylbenzene	< 0.005	0.005	
1,3,5-Trimethylbenzene	< 0.005	0.005	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.005	0.005	
Xylene, 0rtho	< 0.005	0.005	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	106%		
1,2-Dichloroethane-d4 (surrogate)	112%		
Toluene-d8 (surrogate)	87%		
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	6-25-23/22:34		
Analyst Initials	tjg		
Percent Solids:	94%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 062723PS2

Client Sample ID: GP 7 28-30
Envision Sample Number: 23-12317
Sample Matrix: soil
Sample Collection Date/Time: 6/21/23 10:13
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.35	0.35	
Acenaphthylene	< 0.35	0.35	
Anthracene	< 0.35	0.35	
Benzo(a)anthracene	< 0.35	0.35	
Benzo(a)pyrene	< 0.071	0.071	
Benzo(b)fluoranthene	< 0.35	0.35	
Benzo(g,h,i)perylene	< 0.35	0.35	
Benzo(k)fluoranthene	< 0.35	0.35	
Chrysene	< 0.35	0.35	
Dibenzo(a,h)anthracene	< 0.071	0.071	
Fluoranthene	< 0.35	0.35	
Fluorene	< 0.35	0.35	
Indeno(1,2,3-cd)pyrene	< 0.35	0.35	
1-methylnaphthalene	< 0.35	0.35	
2-methylnaphthalene	< 0.35	0.35	
Naphthalene	< 0.071	0.071	
Phenanthrene	< 0.35	0.35	
Pyrene	< 0.35	0.35	
Nitrobenzene-d5 (surrogate)	78%		
2-Fluorobiphenyl (surrogate)	76%		
p-Terphenyl-d14 (surrogate)	101%		
Analysis Date/Time:	6-28-23/14:43		
Analyst Initials:	NR		
Date Extracted:	6/27/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 94%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: GP 7 28-30
Envision Sample Number: 23-12317
Sample Matrix: soil

Sample Collection Date/Time: 6/21/23 10:13
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Cadmium	< 2	2	
Chromium	**5.9**	2	
Lead	**5.3**	2	

Analysis Date/Time: 6-29-23/13:30
Analyst Initials: gjd
Date Digested: 6/28/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 062923icp

Percent Solids 94%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Client Sample ID:	GP 7 28-30	**Sample Collection Date/Time:**	6/21/23	10:13
Envision Sample Number:	23-12317	**Sample Received Date/Time:**	6/22/23	14:30
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	6.0%		EPA 1684
Percent Solids	94.0%		EPA 1684
Analysis Date:	6/29/23		
Analyst Initials	NR		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062623BVW

Client Sample ID: GP 1
Envision Sample Number: 23-12318
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 13:20
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	104%		
Analysis Date/Time:	6-27-23/00:38		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 1
Envision Sample Number: 23-12318
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 13:20
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	42%		
2-Fluorobiphenyl (surrogate)	43%		
p-Terphenyl-d14 (surrogate)	33%		
Analysis Date/Time:	6-23-23/09:53		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: GP 1
Envision Sample Number: 23-12318
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 13:20
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic, total	< 10	10	
Cadmium, total	< 5	5	
Chromium, total	**78**	10	
Lead, total	**23**	10	

ICP Analysis Date/Time: 6-29-23/13:31
Analyst Initials: gjd
Date Digested: 6/28/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062923icp

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062623BVW

Client Sample ID: GP 2
Envision Sample Number: 23-12319
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 13:10
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	108%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	6-27-23/00:53		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 2
Envision Sample Number: 23-12319
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 13:10
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	57%		
2-Fluorobiphenyl (surrogate)	43%		
p-Terphenyl-d14 (surrogate)	48%		
Analysis Date/Time:	6-26-23/10:16		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: GP 2
Envision Sample Number: 23-12319
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 13:10
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic, total	< 10	10	
Cadmium, total	< 5	5	
Chromium, total	**73**	10	
Lead, total	**15**	10	

ICP Analysis Date/Time: 6-29-23/13:34
Analyst Initials: gjd
Date Digested: 6/28/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062923icp

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062623BVW

Client Sample ID: GP 3
Envision Sample Number: 23-12320
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 12:15
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	6-27-23/01:09		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 3
Envision Sample Number: 23-12320
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:15
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	56%		
2-Fluorobiphenyl (surrogate)	43%		
p-Terphenyl-d14 (surrogate)	50%		
Analysis Date/Time:	6-26-23/10:38		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062623BVW

Client Sample ID: GP 4
Envision Sample Number: 23-12321
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 12:30
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	108%		
Toluene-d8 (surrogate)	103%		
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	6-27-23/01:24		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 4
Envision Sample Number: 23-12321
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:30
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	46%		
2-Fluorobiphenyl (surrogate)	45%		
p-Terphenyl-d14 (surrogate)	52%		
Analysis Date/Time:	6-26-23/11:00		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062723VW

Client Sample ID: GP 5
Envision Sample Number: 23-12322
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 11:00
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	106%		
Toluene-d8 (surrogate)	100%		
4-bromofluorobenzene (surrogate)	109%		
Analysis Date/Time:	6-27-23/12:08		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 5
Envision Sample Number: 23-12322
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 11:00
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	46%		
2-Fluorobiphenyl (surrogate)	45%		
p-Terphenyl-d14 (surrogate)	49%		
Analysis Date/Time:	6-26-23/11:23		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: GP 5
Envision Sample Number: 23-12322
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 11:00
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic, total	< 10	10	
Cadmium, total	< 5	5	
Chromium, total	**17**	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 6-29-23/13:37
Analyst Initials: gjd
Date Digested: 6/28/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062923icp

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062723VW

Client Sample ID: GP 6
Envision Sample Number: 23-12323
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:45
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	107%		
Analysis Date/Time:	6-27-23/12:24		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 6
Envision Sample Number: 23-12323
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:45
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	50%		
2-Fluorobiphenyl (surrogate)	46%		
p-Terphenyl-d14 (surrogate)	53%		
Analysis Date/Time:	6-26-23/11:45		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: GP 6
Envision Sample Number: 23-12323
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:45
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic, total	< 10	10	
Cadmium, total	< 5	5	
Chromium, total	**14**	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 6-29-23/13:39
Analyst Initials: gjd
Date Digested: 6/28/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062923icp

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062723VW

Client Sample ID: GP 7
Envision Sample Number: 23-12324
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 11:47
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	112%		
Analysis Date/Time:	6-27-23/12:39		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 7
Envision Sample Number: 23-12324
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 11:47
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	53%		
2-Fluorobiphenyl (surrogate)	40%		
p-Terphenyl-d14 (surrogate)	40%		
Analysis Date/Time:	6-26-23/12:07		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: GP 7
Envision Sample Number: 23-12324
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 11:47
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic, total	< 10	10	
Cadmium, total	< 5	5	
Chromium, total	**18**	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 6-29-23/13:41
Analyst Initials: gjd
Date Digested: 6/28/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062923icp

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062723VW

Client Sample ID: GP 8
Envision Sample Number: 23-12325
Sample Matrix: water
Sample Collection Date/Time: 6/21/23 12:45
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	95%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	110%		
Analysis Date/Time:	6-27-23/12:55		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8270SIM
Prep Method: EPA 3511
Analytical Batch: 062323PW5

Client Sample ID: GP 8
Envision Sample Number: 23-12325
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:45
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	65%		
2-Fluorobiphenyl (surrogate)	52%		
p-Terphenyl-d14 (surrogate)	43%		
Analysis Date/Time:	6-26-23/12:29		
Analyst Initials	gjd		
Date Extracted	6/23/23		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: GP 8
Envision Sample Number: 23-12325
Sample Matrix: water

Sample Collection Date/Time: 6/21/23 12:45
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Arsenic, total	< 10	10	
Cadmium, total	< 5	5	
Chromium, total	**15**	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 6-29-23/13:48
Analyst Initials: gjd
Date Digested: 6/28/23
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 062923icp

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Analytical Report

Client Name: SES

Project ID: 2023-0635

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2023-1278

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 062723VW

Client Sample ID: TRIP BLANK
Envision Sample Number: 23-12326
Sample Matrix: water

Sample Collection Date/Time:
Sample Received Date/Time: 6/22/23 14:30

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	6-27-23/11:53		
Analyst Initials	tjg		

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July 05, 2023

Ms. Cheryl Crum
ENVISION LABORATORIES, INC.
1439 Sandlier Cir. W. Drive
Indianapolis, IN 46239

Project ID: 2023-1278
First Environmental File ID: 23-5428
Date Received: June 27, 2023

Dear Ms. Cheryl Crum:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922023-10: effective 03/07/2023 through 02/28/2024.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager

First Environmental Laboratories, Inc
IL ELAP / NELAC Certification # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **23-5428**

Project ID: **2023-1278**

Date Received: **June 27, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected	
23-5428-001	23-12322, GP 5	6/21/2023	11:00
23-5428-002	23-12322, GP 6	6/21/2023	12:45
23-5428-003	23-12322, GP 7	6/21/2023	11:47
23-5428-004	23-12322, GP 8	6/21/2023	12:45

Sample Batch Comments:

Sample acceptance criteria were met.

Method Comments

Lab Number	Sample ID	Comments:
23-5428-001	23-12322, GP 5	*Oil & Grease* Sample matrix required method modification; result may be low-biased.
23-5428-002	23-12322, GP 6	*Oil & Grease* Sample matrix required method modification; result may be low-biased.
23-5428-003	23-12322, GP 7	*Oil & Grease* Sample matrix required method modification; result may be low-biased.

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Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **23-5428**

Project ID: **2023-1278**

Date Received: **June 27, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client:	ENVISION LABORATORIES, INC.	**Date Collected:**	06/21/23
Project ID:	2023-1278	**Time Collected:**	11:00
Sample ID:	23-12322, GP 5	**Date Received:**	06/27/23
Sample No:	23-5428-001	**Date Reported:**	07/05/23

Analyte	Result	R.L.	Units	Flags
Oil & Grease **Method: 1664B 2010**				
Analysis Date: 06/30/23				
Oil & Grease	< 6	3	mg/L	PW

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Analytical Report

Client:	ENVISION LABORATORIES, INC.	**Date Collected:**	06/21/23
Project ID:	2023-1278	**Time Collected:**	12:45
Sample ID:	23-12322, GP 6	**Date Received:**	06/27/23
Sample No:	23-5428-002	**Date Reported:**	07/05/23

Analyte	Result	R.L.	Units	Flags
Oil & Grease **Method: 1664B 2010**				
Analysis Date: 06/30/23				
Oil & Grease	< 6	3	mg/L	W

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Analytical Report

Client:	ENVISION LABORATORIES, INC.	**Date Collected:**	06/21/23
Project ID:	2023-1278	**Time Collected:**	11:47
Sample ID:	23-12322, GP 7	**Date Received:**	06/27/23
Sample No:	23-5428-003	**Date Reported:**	07/05/23

Analyte	Result	R.L.	Units	Flags
Oil & Grease **Method: 1664B 2010**				
Analysis Date: 06/30/23				
Oil & Grease	< 6	3	mg/L	W

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Analytical Report

Client:	ENVISION LABORATORIES, INC.	**Date Collected:**	06/21/23
Project ID:	2023-1278	**Time Collected:**	12:45
Sample ID:	23-12322, GP 8	**Date Received:**	06/27/23
Sample No:	23-5428-004	**Date Reported:**	07/05/23

Analyte	Result	R.L.	Units	Flags
Oil & Grease **Method: 1664B 2010**				
Analysis Date: 06/30/23				
Oil & Grease	< 3	3	mg/L	T

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Quality Control Summary

Client: ENVISION LABORATORIES, INC. **Lab File ID:** 23-5428

Project ID: 2023-1278

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Parameter:	Oil & Grease	**Analytical Method:**	1664B 2010		**Analytical WS #:** 233428	**Analysis Date:**	6/30/2023	
LCS813617	LCS	TPH (SGT-HEM)	16	mg/L	%R: 78	64	132	
LCS818860	LCS	Oil & Grease	40	mg/L	%R: 99	78	114	
LCS818865	LCS	Oil & Grease (polar)	24	mg/L	%R: 120	64	132	
LCSD818861	LCSD	Oil & Grease	42	mg/L	%R: 104	78	114	
LCSD818863	LCSD	TPH (SGT-HEM)	16	mg/L	%R: 81	64	132	
LCSD818866	LCSD	Oil & Grease (polar)	25	mg/L	%R: 127	64	132	
PB818862	PB	Oil & Grease	< 3	mg/L	0	-		
PB818864	PB	TPH (SGT-HEM)	< 3	mg/L	0	-		
PB818867	PB	Oil & Grease (polar)	< 3	mg/L	0	-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

1st

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. [1439 Sadlier Circle West Drive, Indianapolis, IN 46239] Phone: 317-351-8632 Fax: 317-351-8639

Client: **ENVision Labs**	Invoice Address: **SEE ABOVE**	**REQUESTED PARAMETE**
Report Address: **SEE ABOVE**	Project Name: 2023-1278	
Report To: CHERYL CRUM	Lab contact:	
Phone: **SEE ABOVE**	Sampler:	
e-mail: **SEE ABOVE**	P.O. #:	
Desired TAT: (Please Circle one) **1-day 2-day 3-day** **Std (5 bus. Days)**	QA/QC Required: (Circle One) **Level II Level III Level IV**	

Sample Integrity:
Cooler Temp: 2.3 °C
Samples on ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal? (Yes) No
ENVision provided bottles? (Yes) No
Vials free of head space? Yes No (N/A)
pH Checked? Yes No (N/A)
Method 5035 collection used? YES (NO)
5035 samples received within 48rhs of collection? Yes (No)

Sample ID		Matrix	Coll. Date	Coll. Time	OIL & GREASE			HCl	HNO3	H2SO4	NaOH	Other	None	ENVision Sample ID
23-12322	GP 5	WT	6/21/23	11:00	X									23-5428-001
23-12323	GP 6	WT	6/21/23	12:45	X									-002
23-12324	GP 7	WT	6/21/23	11:47	X									-003
23-12325	GP 8	WT	6/21/23	12:45	X									-004

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
LISA DAULTON	6/26/23	12.00		6/27/23	13:00

05-Jul-2023

Cheryl Crum
ENVision Laboratories, Inc
1439 Sadlier Circle West Dr
Indianapolis, IN 46239

Re: **2023-1278** Work Order: **23062465**

Dear Cheryl,

ALS Environmental received 11 samples on 27-Jun-2023 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 21.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Chelsey Cook

Electronically approved by: Chelsey Cook

Chelsey Cook
Project Manager

ALS Group, USA

Date: 05-Jul-23

Client: ENVision Laboratories, Inc
Project: 2023-1278
Work Order: **23062465**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
23062465-01	23-12311 GP1 28-30	Soil		6/20/2023 10:15	6/27/2023 10:00	☐
23062465-02	23-12312 GP2 28-30	Soil		6/20/2023 11:40	6/27/2023 10:00	☐
23062465-03	23-12315 GP5 28-30	Soil		6/20/2023 14:28	6/27/2023 10:00	☐
23062465-04	23-12316 GP6 28-30	Soil		6/21/2023 09:32	6/27/2023 10:00	☐
23062465-05	23-12317 GP7 28-30	Soil		6/21/2023 10:13	6/27/2023 10:00	☐
23062465-06	23-12318 GP1	Water		6/21/2023 13:20	6/27/2023 10:00	☐
23062465-07	23-12319 GP2	Water		6/21/2023 13:10	6/27/2023 10:00	☐
23062465-08	23-12322 GP5	Water		6/21/2023 11:00	6/27/2023 10:00	☐
23062465-09	23-12323 GP6	Water		6/21/2023 12:45	6/27/2023 10:00	☐
23062465-10	23-12324 GP7	Water		6/21/2023 11:47	6/27/2023 10:00	☐
23062465-11	23-12325 GP8	Water		6/21/2023 12:45	6/27/2023 10:00	☐

Client:	ENVision Laboratories, Inc
Project:	2023-1278
WorkOrder:	**23062465**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

Client:	ENVision Laboratories, Inc
Project:	2023-1278
Work Order:	23062465

Case Narrative

Samples for the above noted Work Order were received on 06/27/2023. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:
No deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group, USA

Date: *05-Jul-2023*

Client:	ENVision Laboratories, Inc		
Project:	2023-1278	**Work Order:**	23062465
Sample ID:	23-12311 GP1 28-30	**Lab ID:**	23062465-01
Collection Date:	6/20/2023 10:15 AM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**	Prep: SW8015C 6/29/23 17:00		Analyst: **KYM**
Ethylene glycol	ND		5.2	mg/Kg-dry	1	6/30/2023 04:47 PM
MOISTURE			**SW3550C**			Analyst: **SGH**
Moisture	**4.4**		**0.10**	**% of sample**	1	6/30/2023 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: ENVision Laboratories, Inc
Project: 2023-1278 **Work Order:** 23062465
Sample ID: 23-12312 GP2 28-30 **Lab ID:** 23062465-02
Collection Date: 6/20/2023 11:40 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**	Prep: SW8015C 6/29/23 17:00		Analyst: **KYM**
Ethylene glycol	ND		5.2	mg/Kg-dry	1	6/30/2023 04:56 PM
MOISTURE			**SW3550C**			Analyst: **SGH**
Moisture	**5.4**		**0.10**	**% of sample**	1	6/30/2023 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: ENVision Laboratories, Inc
Project: 2023-1278 **Work Order:** 23062465
Sample ID: 23-12315 GP5 28-30 **Lab ID:** 23062465-03
Collection Date: 6/20/2023 02:28 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**	Prep: SW8015C 6/29/23 17:00		Analyst: **KYM**
Ethylene glycol	ND		5.0	mg/Kg-dry	1	6/30/2023 05:04 PM
MOISTURE			**SW3550C**			Analyst: **SGH**
Moisture	**2.4**		**0.10**	**% of sample**	1	6/30/2023 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: ENVision Laboratories, Inc
Project: 2023-1278 **Work Order:** 23062465
Sample ID: 23-12316 GP6 28-30 **Lab ID:** 23062465-04
Collection Date: 6/21/2023 09:32 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**	Prep: SW8015C 6/29/23 17:00		Analyst: **KYM**
Ethylene glycol	ND		5.1	mg/Kg-dry	1	6/30/2023 05:13 PM
MOISTURE			**SW3550C**			Analyst: **SGH**
Moisture	**4.7**		**0.10**	**% of sample**	1	6/30/2023 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	ENVision Laboratories, Inc		
Project:	2023-1278	**Work Order:**	23062465
Sample ID:	23-12317 GP7 28-30	**Lab ID:**	23062465-05
Collection Date:	6/21/2023 10:13 AM	**Matrix:**	SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**	Prep: SW8015C 6/29/23 17:00		Analyst: **KYM**
Ethylene glycol	ND		5.2	mg/Kg-dry	1	6/30/2023 05:22 PM
MOISTURE			**SW3550C**			Analyst: **SGH**
Moisture	**5.8**		**0.10**	**% of sample**	1	6/30/2023 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: ENVision Laboratories, Inc
Project: 2023-1278 **Work Order:** 23062465
Sample ID: 23-12318 GP1 **Lab ID:** 23062465-06
Collection Date: 6/21/2023 01:20 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**			Analyst: **KYM**
Ethylene glycol	ND		5.0	mg/L	1	6/30/2023 01:52 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	ENVision Laboratories, Inc		
Project:	2023-1278	**Work Order:**	23062465
Sample ID:	23-12319 GP2	**Lab ID:**	23062465-07
Collection Date:	6/21/2023 01:10 PM	**Matrix:**	WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**			Analyst: **KYM**
Ethylene glycol	ND		5.0	mg/L	1	6/30/2023 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	ENVision Laboratories, Inc		
Project:	2023-1278	**Work Order:**	23062465
Sample ID:	23-12322 GP5	**Lab ID:**	23062465-08
Collection Date:	6/21/2023 11:00 AM	**Matrix:**	WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**			Analyst: **KYM**
Ethylene glycol	ND		5.0	mg/L	1	6/30/2023 02:09 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	ENVision Laboratories, Inc		
Project:	2023-1278	**Work Order:**	23062465
Sample ID:	23-12323 GP6	**Lab ID:**	23062465-09
Collection Date:	6/21/2023 12:45 PM	**Matrix:**	WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**			Analyst: **KYM**
Ethylene glycol	ND		5.0	mg/L	1	6/30/2023 02:18 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	ENVision Laboratories, Inc		
Project:	2023-1278	**Work Order:**	23062465
Sample ID:	23-12324 GP7	**Lab ID:**	23062465-10
Collection Date:	6/21/2023 11:47 AM	**Matrix:**	WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**			Analyst: **KYM**
Ethylene glycol	ND		5.0	mg/L	1	6/30/2023 02:27 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	ENVision Laboratories, Inc		
Project:	2023-1278	**Work Order:**	23062465
Sample ID:	23-12325 GP8	**Lab ID:**	23062465-11
Collection Date:	6/21/2023 12:45 PM	**Matrix:**	WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC COMPOUNDS BY GC-FID			**SW8015M**			Analyst: **KYM**
Ethylene glycol	ND		5.0	mg/L	1	6/30/2023 03:19 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **219162** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: **MBLK-219162-219162** Units: **mg/Kg** Analysis Date: **6/30/2023 04:38 PM**

Client ID: Run ID: **GC11_230630A** SeqNo: **9724630** Prep Date: **6/29/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	ND	5.0								

LCS Sample ID: **LCS-219162-219162** Units: **mg/Kg** Analysis Date: **6/30/2023 05:31 PM**

Client ID: Run ID: **GC11_230630A** SeqNo: **9724636** Prep Date: **6/29/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	542.6	5.0	500	0	109	40-150	0			

MS Sample ID: **23062465-01A MS** Units: **mg/Kg** Analysis Date: **6/30/2023 05:48 PM**

Client ID: **23-12311 GP1 28-30** Run ID: **GC11_230630A** SeqNo: **9724638** Prep Date: **6/29/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	612.2	5.0	496	0	123	40-150	0			

MSD Sample ID: **23062465-01A MSD** Units: **mg/Kg** Analysis Date: **6/30/2023 05:57 PM**

Client ID: **23-12311 GP1 28-30** Run ID: **GC11_230630A** SeqNo: **9724639** Prep Date: **6/29/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	552.7	5.0	497.2	0	111	40-150	612.2	10.2	30	

The following samples were analyzed in this batch:

23062465-01A	23062465-02A	23062465-03A
23062465-04A	23062465-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ENVision Laboratories, Inc
Work Order: 23062465
Project: 2023-1278

QC BATCH REPORT

Batch ID: **R375674** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: **MBLKW1-230630-R375674** Units: **mg/L** Analysis Date: **6/30/2023 01:43 PM**
Client ID: Run ID: **GC11_230630A** SeqNo: **9724581** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	ND	5.0								

LCS Sample ID: **LCSW1-230630-R375674** Units: **mg/L** Analysis Date: **6/30/2023 02:36 PM**
Client ID: Run ID: **GC11_230630A** SeqNo: **9724587** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	596.2	5.0	500	0	119	81-128	0			

MS Sample ID: **23062465-06A MS** Units: **mg/L** Analysis Date: **6/30/2023 03:46 PM**
Client ID: **23-12318 GP1** Run ID: **GC11_230630A** SeqNo: **9724592** Prep Date: DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1170	10	1000	0	117	81-128	0			

MSD Sample ID: **23062465-06A MSD** Units: **mg/L** Analysis Date: **6/30/2023 03:54 PM**
Client ID: **23-12318 GP1** Run ID: **GC11_230630A** SeqNo: **9724593** Prep Date: DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylene glycol	1204	10	1000	0	120	81-128	1170	2.89	30	

The following samples were analyzed in this batch:

23062465-06A	23062465-07A	23062465-08A
23062465-09A	23062465-10A	23062465-11A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ENVision Laboratories, Inc
Work Order: 23062465
Project: 2023-1278

QC BATCH REPORT

Batch ID: **R375719** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R375719** Units: **% of sample** Analysis Date: **6/30/2023 03:28 PM**
Client ID: Run ID: **MOIST_230630D** SeqNo: **9726255** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.10								

LCS Sample ID: **LCS-R375719** Units: **% of sample** Analysis Date: **6/30/2023 03:28 PM**
Client ID: Run ID: **MOIST_230630D** SeqNo: **9726254** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP Sample ID: **23062446-03B DUP** Units: **% of sample** Analysis Date: **6/30/2023 03:28 PM**
Client ID: Run ID: **MOIST_230630D** SeqNo: **9726247** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.3	0.10	0	0	0	0-0	6.11	3.06	10	

DUP Sample ID: **23062465-01A DUP** Units: **% of sample** Analysis Date: **6/30/2023 03:28 PM**
Client ID: **23-12311 GP1 28-30** Run ID: **MOIST_230630D** SeqNo: **9726249** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.19	0.10	0	0	0	0-0	4.45	6.02	10	

The following samples were analyzed in this batch:

23062465-01A	23062465-02A	23062465-03A
23062465-04A	23062465-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. [1439 Sadlier Circle West Drive, Indianapolis, IN 46239] Phone: 317-351-8632 Fax: 317-351-8639

Client: **ENVision Labs**	Invoice Address: **SEE ABOVE**	
Report Address: **SEE ABOVE**	Project Name: 2023-1278	
Report To: CHERYL CRUM	Lab contact:	
Phone: **SEE ABOVE**	Sampler:	
e-mail: **SEE ABOVE**	P.O. #:	
Desired TAT: (Please Circle one) **1-day 2-day 3-day Std (5 bus. Days)**	QA/QC Required: (Circle One) **Level II Level III Level IV**	

REQUESTED PARAMETE

Sample Integrity: 1R3
Cooler Temp: 2.6 °C
Samples on ice? Yes No
Samples Intact? Yes No
Custody Seal? Yes No
ENVision provided bottles? Yes No
Vials free of head space? Yes No N/A
pH Checked? Yes No N/A
Method 5035 collection used? YES NO
5035 samples received within 48rhs of collection? Yes No

Sample ID		Matrix	Coll. Date	Coll. Time	ETHYLENE GLYCOL	% MOISTURE		HCl	HNO3	H2SO4	NaOH	Other	None	ENVision Sample ID
23-12311	GP 1 28-30	SL	6/20/23	10:15	X	X								
23-12312	GP 2 28-30	SL	6/20/23	11:40	X	X								
23-12315	GP 5 28-30	SL	6/20/23	14:28	X	X								
23-12316	GP 6 28-30	SL	6/21/23	9:32	X	X								
23-12317	GP 7 28-30	SL	6/21/23	10:13	X	X								
23-12318	GP 1	WT	6/21/23	13:20	X									
23-12319	GP 2	WT	6/21/23	13:10	X									
23-12322	GP 5	WT	6/21/23	11:00	X									
23-12323	GP 6	WT	6/21/23	12:45	X									
23-12324	GP 7	WT	6/21/23	11:47	X									
23-12325	GP 8	WT	6/21/23	12:45	X									

23062465

ENVISION: ENVision Laboratories, Inc
Project: 2023-1278

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
LISA DAULTON	6/20/23	1200	UPS		
UPS	6/27/23	1000		6/27/23	1000

ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **ENVISION** Date/Time Received: **27-Jun-23 10:00**

Work Order: **23062465** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 28-Jun-23 (Date) Reviewed by: Chelsey Cook (eSignature) 28-Jun-23 (Date)

Matrices: Soil, Water
Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.6/3.6 c	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	6/28/2023 8:49:49 AM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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EPA 8260 Quality Control Data

ENVision Batch Number: 062523VS

Method Blank (MB):	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB)	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	95%		
1,2-Dichloroethane-d4 (surrogate)	93%		
Toluene-d8 (surrogate)	103%		
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	6-25-23/18:38		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD:	LCS Results (ug/kg)	LCS/LCSD Conc. (ug/kg)	LCSD Result (ug/kg)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	48.0	50	46.3	96%	93%	3.6	
1,1-Dichloroethene	43.6	50	49.0	87%	98%	11.7	
trans-1,2-Dichloroethene	44.0	50	44.4	88%	89%	0.9	
Methyl-tert-butyl ether	48.4	50	46.0	97%	92%	5.1	
1,1-Dichloroethane	45.2	50	49.5	90%	99%	9.1	
cis-1,2-Dichloroethene	47.2	50	52.8	94%	106%	11.2	
Chloroform	50.8	50	50.5	102%	101%	0.6	
1,1,1-Trichloroethane	52.3	50	51.0	105%	102%	2.5	
Benzene	51.8	50	50.7	104%	101%	2.1	
Trichloroethene	54.1	50	50.2	108%	100%	7.5	
Toluene	49.8	50	52.3	100%	105%	4.9	
1,1,1,2-Tetrachloroethane	54.0	50	52.7	108%	105%	2.4	
Chlorobenzene	51.1	50	50.9	102%	102%	0.4	
Ethylbenzene	48.0	50	48.4	96%	97%	0.8	
o-Xylene	53.6	50	56.4	107%	113%	5.1	
n-Propylbenzene	53.7	50	53.8	107%	108%	0.2	
Dibromofluoromethane (surrogate)	108%		114%				
1,2-Dichloroethane-d4 (surrogate)	108%		113%				
Toluene-d8 (surrogate)	107%		107%				
4-bromofluorobenzene (surrogate)	109%		102%				
Analysis Date/Time:	6-25-23/17:51		6-25-23/18:06				
Analyst Initials	tjg		tjg				

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EPA 8270 PAH Quality Control Data

ENVision Batch Number: 062723PS2

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Acenaphthene	< 0.33	0.33	
Acenaphthylene	< 0.33	0.33	
Anthracene	< 0.33	0.33	
Benzo(a)anthracene	< 0.33	0.33	
Benzo(a)pyrene	< 0.067	0.067	
Benzo(b)fluoranthene	< 0.33	0.33	
Benzo(g,h,i)perylene	< 0.33	0.33	
Benzo(k)fluoranthene	< 0.33	0.33	
Chrysene	< 0.33	0.33	
Dibenzo(a,h)anthracene	< 0.067	0.067	
Fluoranthene	< 0.33	0.33	
Fluorene	< 0.33	0.33	
Indeno(1,2,3-cd)pyrene	< 0.33	0.33	
1-methylnaphthalene	< 0.33	0.33	
2-methylnaphthalene	< 0.33	0.33	
Naphthalene	< 0.067	0.067	
Phenanthrene	< 0.30	0.30	
Pyrene	< 0.33	0.33	
Nitrobenzene-d5 (surrogate)	82%		
2-Fluorobiphenyl (surrogate)	81%		
p-Terphenyl-d14 (surrogate)	109%		
Analysis Date/Time	06-28-23/08:14		
Analyst Initials	gjd		
Date Extracted	6/27/2023		
Initial Sample Weight:	30 g		
Final Volume	1.0 mL		

LCS/LCSD:	LCS Results	LCS Concentration	LCSD Results	LCS Recovery	LCSD Recovery	RPD	Flag
Naphthalene	26.3	50	25.7	53%	51%	2.2%	
2-methylnaphthalene	27.1	50	27.8	54%	56%	2.4%	
1-methylnaphthalene	26.5	50	26.4	53%	53%	0.6%	
Acenaphthylene	26.6	50	27.4	53%	55%	3.1%	
Acenaphthene	28.0	50	27.5	56%	55%	2.0%	
Fluorene	27.9	50	28.4	56%	57%	1.7%	
Phenanthrene	27.7	50	28.3	55%	57%	2.1%	
Anthracene	26.9	50	26.2	54%	52%	2.4%	
Fluoranthene	28.0	50	27.5	56%	55%	1.7%	
Pyrene	34.0	50	34.3	68%	69%	0.7%	
Benzo(a)anthracene	26.8	50	26.6	54%	53%	0.6%	
Chrysene	27.6	50	27.3	55%	55%	1.1%	
Benzo(b)fluoranthene	27.9	50	28.5	56%	57%	2.2%	
Benzo(k)fluoranthene	28.1	50	30.6	56%	61%	8.6%	
Benzo(a)pyrene	27.3	50	28.6	55%	57%	4.8%	
Indeno(1,2,3-cd)pyrene	29.7	50	32.3	59%	65%	8.4%	
Dibenzo(a,h)anthracene	26.9	50	28.3	54%	57%	5.1%	
Benzo(g,h,i)perylene	30.8	50	32.4	62%	65%	5.1%	
Nitrobenzene-d5 (surrogate)	79%		75%				
2-Fluorobiphenyl (surrogate)	75%		77%				
p-Terphenyl-d14 (surrogate)	92%		97%				
Analysis Date/Time:	06-28-23/08:40		06-28-23/09:06				
Analyst Initials:	gjd		gjd				
Date Extracted:	6/27/2023		6/27/2023				
Initial Sample Weight:	30 g		30 g				
Final Volume:	1.0 mL		1.0 mL				

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 062923icp

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Arsenic	< 2	2	
Cadmium	< 2	2	
Chromium	< 2	2	
Lead	< 2	2	
Analysis Date/Time:	6-29-23/12:34		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Arsenic	0.51	0.50	102%	
Cadmium	0.49	0.50	98%	
Chromium	0.48	0.50	96%	
Lead	0.52	0.50	104%	
Analysis Date/Time:	6-29-23/12:32			
Analyst Initials:	gjd			

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EPA 8260 Quality Control Data

ENVision Batch Number: 062623BVW

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	99%		
1,2-Dichloroethane-d4 (surrogate)	95%		
Toluene-d8 (surrogate)	105%		
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	6-26-23/16:25		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	49.2	50	48.2	98%	96%	2.1	
1,1-Dichloroethene	49.6	50	54.3	99%	109%	9.0	
trans-1,2-Dichloroethene	50.1	50	46.2	100%	92%	8.1	
Methyl-tert-butyl-ether	48.6	50	51.2	97%	102%	5.2	
1,1-Dichloroethane	46.8	50	46.7	94%	93%	0.2	
cis-1,2-Dichloroethene	49.0	50	46.3	98%	93%	5.7	
Chloroform	47.9	50	49.2	96%	98%	2.7	
1,1,1-Trichloroethane	48.8	50	49.8	98%	100%	2.0	
Benzene	47.9	50	48.7	96%	97%	1.7	
Trichloroethene	49.7	50	50.0	99%	100%	0.6	
Toluene	53.2	50	54.0	106%	108%	1.5	
1,1,1,2-Tetracholorethane	52.1	50	54.0	104%	108%	3.6	
Chlorobenzene	51.2	50	53.1	102%	106%	3.6	
Ethylbenzene	48.6	50	50.6	97%	101%	4.0	
o-Xylene	53.5	50	55.2	107%	110%	3.1	
n-Propylbenzene	53.9	50	50.5	108%	101%	6.5	
Dibromofluoromethane (surrogate)	101%		102%				
1,2-Dichloroethane-d4 (surrogate)	107%		101%				
Toluene-d8 (surrogate)	113%		105%				
4-bromofluorobenzene (surrogate)	109%		101%				
Analysis Date/Time:	6-26-23/15:38		6-26-23/15:54				
Analyst Initials	tjg		tjg				

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EPA 8260 Quality Control Data

ENVision Batch Number: 062723VW

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	106%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	6-27-23/11:37		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	46.9	50	48.2	94%	96%	2.7	
1,1-Dichloroethene	51.5	50	46.1	103%	92%	11.1	
trans-1,2-Dichloroethene	50.4	50	48.4	101%	97%	4.0	
Methyl-tert-butyl-ether	50.6	50	47.8	101%	96%	5.7	
1,1-Dichloroethane	48.6	50	49.1	97%	98%	1.0	
cis-1,2-Dichloroethene	48.5	50	48.9	97%	98%	0.8	
Chloroform	51.5	50	48.4	103%	97%	6.2	
1,1,1-Trichloroethane	52.8	50	50.7	106%	101%	4.1	
Benzene	49.7	50	47.9	99%	96%	3.7	
Trichloroethene	52.8	50	49.8	106%	100%	5.8	
Toluene	55.8	50	50.3	112%	101%	10.4	
1,1,1,2-Tetracholorethane	53.6	50	56.0	107%	112%	4.4	
Chlorobenzene	51.6	50	47.6	103%	95%	8.1	
Ethylbenzene	50.8	50	49.7	102%	99%	2.2	
o-Xylene	49.7	50	52.2	99%	104%	4.9	
n-Propylbenzene	55.6	50	53.3	111%	107%	4.2	
Dibromofluoromethane (surrogate)	96%		91%				
1,2-Dichloroethane-d4 (surrogate)	115%		107%				
Toluene-d8 (surrogate)	109%		100%				
4-bromofluorobenzene (surrogate)	111%		103%				
Analysis Date/Time:	6-27-23/10:36		6-27-23/10:51				
Analyst Initials	tjg		tjg				

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EPA 8270SIM Quality Control Data

ENVision Batch Number: 062323PW5

Method Blank (MB):	Method Blank Result (ug/L)	Reporting Limit (ug/L)	Flag
Acenaphthene	< 1.0	1.0	
Acenaphthylene	< 1.0	1.0	
Anthracene	< 0.10	0.10	
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(g,h,i)perylene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.10	0.10	
Fluoranthene	< 1.0	1.0	
Fluorene	< 1.0	1.0	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
1-methylnaphthalene	< 1.0	1.0	
2-methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
Phenanthrene	< 1.0	1.0	
Pyrene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	49%		
2-Fluorobiphenyl (surrogate)	41%		
p-Terphenyl-d14 (surrogate)	37%		
Analysis Date/Time:	6-26-23/08:47		
Analyst Initials	NR		
Date Extracted	6/23/2023		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

LCS/LCSD:	LCS Result (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Recovery	LCSD Recovery	RPD	Flag
Naphthalene	1.40	2.0	1.48	70.0%	74.0%	5.6%	
2-methylnaphthalene	1.18	2.0	1.24	59.0%	62.0%	5.0%	
1-methylnaphthalene	1.16	2.0	1.24	58.0%	62.0%	6.7%	
Acenaphthylene	1.22	2.0	1.29	61.0%	64.5%	5.6%	
Acenaphthene	1.26	2.0	1.21	63.0%	60.5%	4.0%	
Fluorene	1.15	2.0	1.12	57.5%	56.0%	2.6%	
Phenanthrene	1.45	2.0	1.43	72.5%	71.5%	1.4%	
Anthracene	1.64	2.0	1.64	82.0%	82.0%	0.0%	
Fluoranthene	1.90	2.0	1.89	95.0%	94.5%	0.5%	
Pyrene	1.84	2.0	1.93	92.0%	96.5%	4.8%	
Benzo(a)anthracene	1.16	2.0	1.12	58.0%	56.0%	3.5%	
Chrysene	1.33	2.0	1.37	66.5%	68.5%	3.0%	
Benzo(b)fluoranthene	1.22	2.0	1.22	61.0%	61.0%	0.0%	
Benzo(k)fluoranthene	1.33	2.0	1.35	66.5%	67.5%	1.5%	
Benzo(a)pyrene	1.36	2.0	1.42	68.0%	71.0%	4.3%	
Indeno(1,2,3-cd)pyrene	0.87	2.0	0.92	43.5%	46.0%	5.6%	
Dibenzo(a,h)anthracene	0.88	2.0	0.87	44.0%	43.5%	1.1%	
Benzo(g,h,i)perylene	0.99	2.0	1.05	49.5%	52.5%	5.9%	
Nitrobenzene-d5 (surrogate)	52%		54%				
2-Fluorobiphenyl (surrogate)	40%		47%				
p-Terphenyl-d14 (surrogate)	41%		50%				
Analysis Date/Time:	6-26-23/09:09		6-26-23/09:31				
Analyst Initials:	NR		NR				
Date Extracted:	6/23/2023		6/23/2023				
Initial Sample Volume:	40 mL		40 mL				
Final Volume:	2.0 mL		2.0 mL				

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 062923icp

Method Blank (MB):	MB Results (mg/L)	Rep Lim (mg/L)	Flag
Arsenic, total	< 0.01	0.01	
Cadmium, total	< 0.005	0.005	
Chromium, total	< 0.01	0.01	
Lead, total	< 0.01	0.01	
Analysis Date/Time:	6-29-23/12:39		
Analyst Initials:	gjd		

Laboratory Control Standard (LCS):	LCS Results(mg/L)	LCS Conc(mg/L)	% Rec	Flag
Arsenic, total	0.49	0.50	98	
Cadmium, total	0.52	0.50	104	
Chromium, total	0.52	0.50	104	
Lead, total	0.55	0.50	110	
Analysis Date/Time:	6-29-23/12:36			
Analyst Initials:	gjd			

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Flag Number	Comments
1	Reported value is below the reporting limit but above the MDL.

ENVision Proj#: 2023-1278 Page 1 of 2

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2023-0635
Report To: GH	Lab Contact:
Phone:	Sampled by: LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

Sample Integrity:
Cooler Temp: 3 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: (Yes) No N/A
pH checked? (Yes) No N/A
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? Yes (No)

REQUESTED PARAMETERS

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	VOC	PAH	Ethylene glycol	metals *	Oil & grease	HCl	HNO_3	H_2SO_4	NaOH	Other (1034, 1622)	None	ENVision Sample ID
GP 1 28-30	6/20/23	10:15	G	Soil	X	X	X	X		2				3	2	23-12311
GP 2 28-30		11:40					X	X								12312
GP 3 ~~24-25~~		12:55														12313
GP 4 28-30		1:28														12314
GP 5 28-30		2:26					X	X								12315
GP 6 28-30	6/21/23	9:32					X	X								12316
GP 7 28-30		10:13					X	X								12317
GP 1		1:20		Water			X	X		2	1				6	12318
GP 2		1:40					X	X			1				6	12319
GP 3		12:45													3	12320
GP 4		12:30													3	12321

Comments: * Arsenic, cadmium, chromium, Lead

Relinquished by:	Date	Time	Received by:	Date	Time
Lyndsay Kahlbeck	6/22/23	14:30		6/22/23	14:30

ENVision Proj#: 2023-1278 Page 2 of 3

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2023-0635
Report To: GH	Lab Contact:
Phone:	Sampled by: LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Sample Integrity:
Cooler Temp: 3 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: (Yes) No N/A
pH checked? (Yes) No N/A
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? Yes (No)

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	VOC	PAH	ethylene glycol & metals	oil & grease				HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
GP 5	6/21/23	11:00	G	Water	X	X	X	X	X			2	1	1			6	23-12322
GP 6	↓	12:45	↓	↓			X	X	X			↓	1	1			6	12323
GP 7		11:47					X	X	X				1	1			6	12324
GP 8		12:15				X	X	X	X				1	1			6	12325
Trip Blank	Lab prepped			↓	↓							↓						12326

Comments: * Arsenic, cadmium, chromium, Lead

Relinquished by:	Date	Time	Received by:	Date	Time
Lyndsay Kallenbach	6/22/23	14:30		6/22/23	14:30

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5035 CHECK-IN SHEET

Client Name: SES ENVision project#: 2023-1278

Cooler Temp: 3 °C

Method 5035A used: YES ☒ NO ☐

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES ☒ NO ☐

5035A samples were received within 48 hrs of collection: YES ☐ NO ☒

5035A samples were frozen within 48 hrs of collection by lab: YES ☐ NO ☒
If NO, did client freeze samples? YES ☒ NO ☐

> 5035ATable A.1 Reference:
> Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then frozen to < -7°C upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES ☐ NO ☒

> 5035ATable A.1 Reference:
> Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: YDaulton 6.22.23