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February 2, 2023 Project No. M1472.02.002

Annette Ademasu, Senior Tank Inspector Underground Storage Tank Unit Washington State Department of Ecology P.O. Box 47655 Olympia, WA, 98504-7655

Re: Site Assessment for Permanent Closure of a 1,200-Gallon Underground Storage Tank Mount Vernon Library Commons 208 West Kincaid Street, Mount Vernon, Washington

Dear Annette Ademasu:

At the request of Lydig Construction (Lydig), Maul Foster & Alongi, Inc. (MFA) conducted a site assessment in support of the permanent closure of a 1,200-gallon underground storage tank (UST) located at 208 West Kincaid Street in Mount Vernon, Washington (the Property) (see Figure 1). MFA prepared this site assessment report to describe UST removal, overexcavation, soil disposal, confirmation soil sample results, and reconnaissance groundwater sample results. The site assessment was performed by Amanda Bixby, an International Code Council-certified site assessor (certificate no. 9082049), consistent with the regulations put forth in Washington Administrative Code 173-360 and the Washington State Department of Ecology (Ecology) Site Assessment Guidance for UST Systems (Ecology 2022).

BACKGROUND

The approximately 0.75-acre Property consists of four Skagit County parcels (P54139, P54141, P54142, and P54147) located in downtown Mount Vernon in section 19, township 34 north, and range 4 east of the Willamette Meridian (see Figure 2). The Property is bordered by South 3rd Street to the east, West Kincaid Street to the north, South 2nd Street to the west, and an unnamed alley to the south. The Property is owned by the City of Mount Vernon (the City) and is being developed into a public library, transit center, and multi-use community space. Historical information and prior environmental assessments are described in a previous report by MFA: Site Assessment for Permanent Closure of Two Underground Storage Tanks (MFA 2022).

PHYSICAL SETTING

The Property is level and covered with soil and gravel (see field photographs in Attachment A). Approximately 500 feet to the west of the Property, the Skagit River flows south-southwest. Generally, the Property is underlain by alluvial deposits of the Skagit River, described as well-sorted and stratified sand, silt, and gravel (Dethier and Whetten 1981). Previous subsurface

investigations at the Property described soil consisting of silty sand underlain by sand, then silt and clay (Pacific 1997) and determined that groundwater flowed north-northwest (Gettler-Ryan 2001). During the prior UST site assessment activities conducted by MFA, soil consisted of silty sand and sand with silt (MFA 2022). Groundwater was encountered at approximately 9 feet below ground surface (bgs) during UST decommissioning and excavation activities.

UST DISCOVERY AND DECOMMISSIONING

On December 15, 2022, Lydig's earthwork contractor, Pellco Construction, Inc., discovered the 1,200-gallon UST during site development activities in the southwest portion of parcel P54141 (see Figure 2). The approximately 1,200-gallon single-wall steel UST was 4 feet in diameter and 14 feet long. The top of the UST was located approximately 3 feet bgs. An approximately 7-foot-long pipe extended to the east of the 1,200-gallon UST. No other piping components were observed around the UST. The pipe was removed with the tank as part of the tank closure. The UST closure form for the 1,200-gallon UST and site assessment checklist are included in Attachment B.

UST decommissioning activities were initiated on January 4, 2023. ClearCreek Contractors, a division of Holt Services, Inc., of Edgewood, Washington, was the UST decommissioner. A UST removal permit from the City of Mount Vernon and a 30-day waiver from Ecology are included as Attachment C.

On January 4, 2023, Marine Vacuum Services, Inc. (Marvac) of Seattle, Washington removed approximately 5 gallons of residual product from the bottom of the UST. The UST was then triple rinsed. Approximately 45 gallons of rinse water was removed from the UST; all liquids were transported to Marvac's facility in Seattle, Washington for treatment and disposal. Disposal manifests are included as Attachment D. Pellco Construction, Inc. then removed the UST. No holes were observed in the UST upon removal; however, significant rust was observed on the steel walls.

SITE ASSESSMENT AND OVEREXCAVATION

The site assessment was performed consistent with Ecology's Site Assessment Guidance for Underground Storage Tank Systems (Ecology 2022) and Guidance for Remediation of Petroleum Contaminated Sites (Ecology 2016).

During the site assessment and excavation activities, soil was monitored for organic vapors using a photoionization detector (PID) and observed for visual and olfactory indicators of contamination (i.e., odor or staining). Confirmation soil samples were obtained from the desired sampling locations and depths within the tank pit using an excavator; the samples were collected from the middle of the bucket, away from the metal sides, and from six inches below the top of the soil in the bucket. The samples were collected manually or by using a U.S. Environmental Protection Agency (EPA) Method 5035 sampling kit. Soil was placed in

laboratory-supplied containers for the selected analyses. Disposable gloves were worn during sample collection and replaced with new gloves after collection of each sample.

Site Assessment and Initial Overexcavation

The 1,200-gallon UST was excavated and removed on January 4, 2023. Following removal, MFA inspected the excavation for visual or olfactory evidence of petroleum-contaminated soil (PCS) and identified PCS in all sidewalls and the base of the tank pit. During excavation, overburden soil above the UST bottom (i.e., shallower than 7 feet bgs) did not exhibit characteristics of PCS and was segregated for reuse.

Following tank removal, MFA directed overexcavation of PCS in the west sidewall of the tank pit to approximately 8 feet west of the former UST location; however, field indicators of PCS were still present in the sidewall. The initial excavation area spanned approximately 340 square feet and the excavation depth extended to approximately 9 feet bgs, at which point groundwater was encountered. The fill material surrounding the UST consisted of brown gravelly silty sand.

MFA collected one confirmation soil sample (T3BASE01) from the base of the excavation, beneath the central portion of the UST at 9.0 feet bgs. The sample contained visual and olfactory indicators of PCS; however, deeper excavation was not feasible due to shallow groundwater. Lateral overexcavation continued, as discussed below.

Overexcavation and Additional Confirmation Soil Sampling

From January 5 to January 9, 2023, MFA directed the continued lateral overexcavation of PCS. The overexcavation extended to a maximum depth of 9.0 feet bgs due to shallow groundwater. When PCS appeared to cease laterally in any given direction based on field observations, MFA collected confirmation soil samples from the base and sidewalls of the excavation to assess chemical concentrations in remaining soil. Details for each day of overexcavation are provided below.

On January 5, 2023, MFA directed overexcavation extending west and south. Soil was continuously evaluated for the presence of PCS using a PID and visual and olfactory observations. MFA stopped excavation once the west and south sidewalls did not exhibit visual or olfactory indicators of PCS. At the south sidewall, this excavation limit was collocated with the southern Property boundary. The PID readings for soil from the final south and west sidewalls were 9.6 ppm and 1.0 ppm, respectively. Confirmation soil samples were collected from both the south and west sidewalls at T3-SW01 and T3-SW02, respectively.

On January 6, 2023, MFA directed overexcavation to the north and east. Overexcavation to the east ceased when indicators of PCS were no longer present and the PID reading from soil in the east sidewall was 1.7 ppm, at which point two east sidewall confirmation soil samples (T3-SW03 and T3-SW04) were collected. The northern sidewall still contained PCS at the end

of the day. Due to the increased length of the excavation, an additional sample (T3-SW05) was collected from the west sidewall.

On January 9, 2023, MFA directed continued overexcavation of the north sidewall. By the end of the day, indicators of PCS were no longer present and the north sidewall soil and the PID reading was 10 ppm. A north sidewall confirmation sample (T3-SW06) was collected, along with an additional base sample (T3-BASE02) and two additional east and west sidewall samples (T3-SW07 and T3-SW08, respectively) due to the increased excavation size.

In total, two base samples and eight sidewall samples were collected from the 1,200-gallon UST excavation. The sample locations and final excavation extent are shown on Figure 2. Two additional USTs (250-gallon and 3,200-gallon capacity) are shown on Figure 2; both were decommissioned by removal in November 2022 (MFA 2022). All final confirmation soil samples from the 250-gallon and 3,200-gallon UST excavations were non-detect for all analytes.

Groundwater Sampling

Groundwater was encountered in the 1,200-gallon UST excavation at 9.0 feet bgs. Therefore, consistent with Ecology's *Site Assessment Guidance for Underground Storage Tank Systems* (Ecology 2022) and *Guidance for Remediation of Petroleum Contaminated Sites* (Ecology 2016), MFA contracted a licensed driller to install three temporary wells for reconnaissance groundwater sample collection: one upgradient (B03) and two downgradient (B01 and B02) of the excavation.

On January 10, 2023, Anderson Environmental Contracting, LLC, of Kelso, Washington, installed temporary wells B01 through B03 to 15 feet bgs. Temporary well screens (0.75-inch-diameter, 10-foot-long, polyvinyl chloride, 0.010-inch slotted well screens) were installed at each temporary boring location (see geologic boring logs in Attachment E). Reconnaissance groundwater samples were collected using low-flow sampling methods and a peristaltic pump. Water quality parameters (conductivity, pH, temperature, oxidation-reduction potential, and turbidity) were measured and recorded on field sampling data sheets before sample collection (see Attachment F). At least one well volume was purged from the temporary well screen to minimize turbidity and ensure that a representative sample was collected. Groundwater was transferred directly into laboratory-supplied containers.

Stockpile Sampling

During overexcavation activities, the PCS was segregated and stockpiled on plastic sheeting and covered with plastic sheeting to prevent soil erosion. The 1,200-gallon UST overexcavation generated approximately 150 cubic yards of PCS. In accordance with Ecology's *Site Assessment Guidance for Underground Storage Tank Systems* (Ecology 2022), MFA collected five discrete soil samples from the stockpile. The soil samples were collected from the stockpile manually from depths of 0.5 to 3.0 feet below the surface of the stockpile at the locations shown on Figure 2. Prior UST and contaminated soil removal in November 2022 at the Property included

collection of five stockpile samples (MFA 2022). Therefore, the stockpile samples associated with the 1,200-gallon UST are numbered PILE06 through PILE10.

ANALYTICAL METHODS

MFA collected confirmation soil samples from 10 locations (including a duplicate sample at one location), groundwater samples from three locations (including a duplicate sample at one location), and five stockpile characterization samples (see Figure 2). The samples were labeled, placed on ice in a cooler, and transported under standard chain-of-custody (COC) procedures to Friedman and Bruya, Inc. (FBI), in Seattle, Washington.

Confirmation soil samples were initially analyzed for petroleum hydrocarbon identification (HCID) by the Northwest Total Petroleum Hydrocarbon (NWTPH)-HCID method. Based on the initial analytical results, the following additional analyses were performed on all confirmation samples:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method 8260D/8021B
- Diesel-range organics (DRO) by NWTPH-Dx
- Motor-oil-range organics (ORO) by NWTPH-Dx
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by EPA Method 8270E
- Naphthalenes, including naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene, by EPA Method 8270E

Groundwater samples were analyzed for the following:

- BTEX by EPA Method 8260D/8021B
- Gasoline-range organics (GRO) by NWTPH-Gx
- DRO by NWTPH-Dx
- ORO by NWTPH-Dx
- cPAHs by EPA Method 8270E
- Naphthalenes, including naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene, by EPA Method 8270E

Stockpile sample analyses were selected to meet the requirements of the disposal facility, Cadman, Inc. in Everett, Washington. Stockpile samples were analyzed for the following (see Table 1):

- BTEX by EPA Method 8021B
- GRO by NWTPH-Gx
- DRO by NWTPH-Dx
- ORO by NWTPH-Dx
- Metals by EPA Method 6020B
- cPAHs by EPA Method 8270E

Analytical laboratory reports are included as Attachment G. Analytical results are summarized in Tables 1 and 2. Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they met data quality objectives, consistent with EPA procedures for evaluating laboratory analytical data (FBI 2019; EPA 2020a,b). A memorandum summarizing data validation procedures, data usability, and deviations from specific field and/or laboratory methods is presented as Attachment H. Based on the data validation, all analytical results were considered acceptable for their intended use, with the assigned qualifiers. Sample results were compared to the Model Toxics Control Act (MTCA) Method A cleanup levels (CULs) for unrestricted land use (see Tables 1 and 2).

ANALYTICAL RESULTS

Soil

All confirmation soil samples except base sample T3BASE01-SS-9.0 and its duplicate, T3DUP-SS-9.0, were non-detect for all analytes. T3BASE01-SS-9.0 and its duplicate sample contained detections of DRO and naphthalene at concentrations above the MTCA Method A CULs.

Groundwater

All chemical concentrations were non-detect at the upgradient sample location B03. At downgradient locations B01 and B02, DRO was detected at concentrations well below the MTCA Method A CUL. All remaining chemicals were non-detect at the downgradient locations.

Stockpile

Laboratory concentrations of DRO and GRO exceeded MTCA Method A CULs in three of the five stockpile samples (PILE07, PILE08, and PILE10. However, upon review of the chromatograms, the reported GRO results were overlapping hydrocarbon ranges of DRO (see chromatograms in Attachment G). Based on the analytical results, the disposal facility classified the excavated soil as Category 3 ("Petroleum Contaminated Soil To be Thermally Treated"). Soil was approved for disposal as nonhazardous waste.

SOIL DISPOSAL AND BACKFILL

A total of approximately 900 cubic yards of soil (PCS and overburden) were excavated. During excavation, overburden soil above the UST bottom (i.e., shallower than 7 feet bgs) did not exhibit characteristics of PCS and was segregated for reuse. Stockpile sample results from the PCS stockpile indicated that the material was not suitable for reuse (Ecology 2016). Therefore, the total excavated soil volume of PCS (140 cubic yards or approximately 210 tons) was loaded into haul trucks and transported to Cadman, Inc. in Everett, Washington for disposal and treatment. Approximately 300 tons of clean fill material was imported to backfill the excavation. Waste manifests and import tickets are included in Attachment D.

DISCUSSION

Approximately 140 cubic yards of PCS was excavated and disposed of off-site. Confirmation soil samples collected from all four sidewalls and the northern base of the excavation were non-detect for all analytes. In the central and southern portion of the excavation, residual PCS at 9.0 feet bgs could not be removed due to shallow groundwater contributing to excessively wet soil conditions and unstable sidewalls. Residual PCS at 9.0 feet bgs contained DRO and naphthalene at concentrations above the MTCA Method A CULs. BTEX constituents were not detected. Additionally, reconnaissance groundwater samples collected downgradient of the excavation were non-detect for naphthalene and contained concentrations of DRO well below the MTCA Method A CUL. Therefore, the remaining PCS is likely localized to the central base of the UST excavation at depths below 9.0 feet bgs.

Lydig is in the process of constructing a library campus on the Property for the City of Mount Vernon. The maximum excavation depth for deep foundation footings is 8.0 feet bgs, approximately 1.0 foot above the residual PCS (see foundation plan in Attachment I). Therefore, construction workers will not come into contact with residual PCS at 9.0 feet bgs during development activities.

Based on the development plans and the absence of groundwater CUL exceedances, no additional remediation is recommended associated with the closure of this UST.

Sincerely,

Maul Foster & Alongi, Inc.

Amanda Bixby, GIT Staff Geologist

Muncher Britis

02/02/2023 Carolyn R. Wise, LHG Project Hydrogeologist

Attachments: Limitations

References Tables Figures

Attachment A—Field Photographs

Attachment B—Permanent Closure Form and UST Checklists

Attachment C—UST Permit and Waiver

Attachment D—Waste Manifests and Import Tickets

Attachment E—Geologic Boring Logs

Attachment F—Water Field Sampling Data Sheets

Attachment G—Laboratory Reports and Chromatograms

Attachment H—Data Validation Memorandum

Attachment I—Foundation Plan

cc: Alex Carey, Lydig Construction

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

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Pacific. 1997. M. Miller and D. Thomas, Pacific Environmental Group, Inc. Remedial Well Installation, Former Chevron Service Station 9-0498, 800 South Second Street, Mount Vernon, Washington. Letter to D. Barnat, Chevron U.S.A. Products Company. June 18.

TABLES





Excavation Area:							1,200-gallon US	T				
Location:	1	T3-B,	ASEO1	T3-BASE02	T3-SW01	T3-SW02	T3-SW03	T3-SW04	T3-SW05	T3-SW06	T3-SW07	T3-SW08
Sample Name:	MTCA Method A, Unrestricted Land Use ⁽¹⁾	T3BASE01-SS- 9.0	T3DUP-SS-9.0	T3BASE02-SS- 9.0	T3SW01-SS-8.0	T3SW02-SS-8.0	T3SW03-SS-8.0	T3SW04-SS-8.0	T3SW05-SS-8.0	T3SW06-SS-8.0	T3SW07-SS-8.0	T3SW08-SS-8.0
Sample Date:	Lana ose	01/04/2023	01/04/2023	01/09/2023	01/05/2023	01/05/2023	01/06/2023	01/06/2023	01/06/2023	01/09/2023	01/09/2023	01/09/2023
Sample Depth (ft bgs):		9.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
HCID (detect/non-detect)	-											
Diesel	NV	DETECT	DETECT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heavy Oil	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH (mg/kg)	•		•	•	•	•	•	•	•		•	•
Gasoline-Range Hydrocarbons	100 ^(a)											
Diesel-Range Hydrocarbons	2,000	5,600	8,900	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2,000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Diesel+Oil ^(b)	2,000	5,700	9,000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total Metals (mg/kg)	•		•	•	•	•	•	•	•	•	•	•
Arsenic	20											
Barium	NV											
Cadmium	2											
Chromium	NV											
Lead	250											
Mercury	2											
Selenium	NV											
Silver	NV											
VOCs (mg/kg)	•		•	•	•	•	•	•	•	•	•	•
Benzene	0.03	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
m,p-Xylene	NV	0.12	0.10									
o-Xylene	NV	0.05 U	0.05 U									
Toluene	7	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total) ^(c)	9	0.15	0.13	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
PAHs (mg/kg)	•		•	•	•	•	•	•	•		•	•
1-Methylnaphthalene	NV	12	18	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Methylnaphthalene	NV	18	27	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(a)anthracene	NV	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(a)pyrene	0.1	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	NV	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	NV	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	NV	0.025	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	NV	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Indeno(1,2,3-cd)pyrene	NV	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Naphthalene	5	2.9 J	5.5 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
cPAH TEQ ^{(d)(2)}	0.1	0.0078	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

M1472.02.002, 2/2/2023, Tf_1-2 Soil and GW Analytical Results



Excavation Area:		1,200-gallon UST							
Location:	14TO A 14 - 11 1	Stockpile							
Sample Name:	MTCA Method A, Unrestricted Land Use(1)	PILEO6-SS-1.0	PILEO7-SS-2.0	PILE08-SS-1.5	PILE09-SS-3.0	PILE10-SS-0.			
Sample Date:	Land use	01/04/2023	01/04/2023	01/04/2023	01/05/2023	01/05/2023			
Sample Depth (ft bgs):	1	1.0	2.0	1.5	3.0	0.5			
HCID (detect/non-detect)	•	•		•	•				
Diesel	NV								
Gasoline	NV								
Heavy Oil	NV								
TPH (mg/kg)	•	•	•		•				
Gasoline-Range Hydrocarbons	100 ^(a)	5 U	210 J+	150 J+	59 J+	830 J+			
Diesel-Range Hydrocarbons	2,000	1,500	8,600	16,000	190	22,000 J+			
Motor-Oil-Range Hydrocarbons	2,000	250 U	250 U	250 U	250 U	480 J+			
Diesel+Oil ^(b)	2,000	1,600	8,700	16,000	320	22,000 J+			
Total Metals (mg/kg)		•			•				
Arsenic	20	1 U	1 U	3.15	1 U	2.48			
Barium	NV	49.1	27.0	61.8	10.7	34.6			
Cadmium	2	1 U	1 U	1 U	1 U	1 U			
Chromium	NV	21.3	11.7	19.7	6.01	13.2			
Lead	250	1.73	1.59	3.19	1 U	2.46			
Mercury	2	1 U	1 U	1 U	1 U	1 U			
Selenium	NV	1 U	1 U	1 U	1 U	1 U			
Silver	NV	1 U	1 U	1 U	1 U	1 U			
VOCs (mg/kg)	•				•				
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U			
Ethylbenzene	6	0.043	1.7 J+	0.74	0.02 U	1.9 J+			
m,p-Xylene	NV								
o-Xylene	NV								
Toluene	7	0.02 U	0.11 J+	0.02 U	0.02 U	0.02 U			
Xylenes (total) ^(c)	9	0.06 U	2.2 J+	1.2	0.06 U	2.7 J+			
PAHs (mg/kg)	•					<u>!</u>			
1-Methylnaphthalene	NV				0.017	13			
2-Methylnaphthalene	NV				0.01 U	18			
Benzo(a)anthracene	NV	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U			
Benzo(a)pyrene	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U			
Benzo(b)fluoranthene	NV	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U			
Benzo(k)fluoranthene	NV	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U			
Chrysene	NV	0.01 U	0.029	0.029	0.01 U	0.060			
Dibenzo(a,h)anthracene	NV	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U			
Indeno(1,2,3-cd)pyrene	NV	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U			
Naphthalene	5				0.01 U	2.7			
cPAH TEQ ^{(d)(2)}	0.1	0.01 U	0.0078	0.0078	0.01 U	0.038			

M1472.02.002, 2/2/2023, Tf_1-2 Soil and GW Analytical Results



Notes

Shading indicates values that exceed MTCA Method A screening criteria; non-detects (U) were not compared with screening criteria.

-- = not analvzed

cPAH = carcinogenic polycyclic aromatic hydrocarbon.

ft bgs = feet below ground surface.

HCID = hydrocarbon identification.

J = result is estimated.

J+ = result is estimated, but the result may be biased high.

mg/kg = milligrams per kilogram.

MTCA = Model Toxics Control Act.

ND = non-detect.

NV = no value.

PAH = polycyclic aromatic hydrocarbon.

TEQ = toxicity equivalency.

TPH = total petroleum hydrocarbons.

U = result is non-detect at the method reporting limit.

UST = underground storage tank.

VOC = volatile organic compound.

^(a)Screening level is for gasoline-range hydrocarbons with no detectable benzene.

¹⁰¹Diesel+Oil is the sum of diesel-range and motor-oil-range hydrocarbons. When results are non-detect, half the reporting limit is used. When both results are non-detect, the highest reporting limit is shown.

^[C]Total xylenes are reported by the laboratory or are the sum of m,p-xylene and o-xylene, with non-detect results multiplied by one-half the reporting limit.

^(a)One-half the reporting limit is used for non-detect results in the cPAH TEQ calculation. When all cPAHs are non-detect, the highest reporting limit is shown in lieu of the TEQ calculation.

Reference

(1) Ecology. 2023. Cleanup Levels and Risk Calculation (CLARC) table. Washington State Department of Ecology, Toxics Cleanup Program. January.

(2) Ecology. 2015. Implementation Memorandum #10: Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs). Publication No. 15-09-049. Washington State Department of Ecology, Toxics Cleanup Program. April 20.

M1472.02.002, 2/2/2023, Tf_1-2 Soil and GW Analytical Results



Table 2 Summary of Groundwater Analytical Results Lydig Construction Mount Vernon Library Commons

Location:		В	01	B02	В03	
Sample Name:	MTCA Method	B01-GW-9.5	BDUP-GW-9.5	B02-GW-10.0	B03-GW-10.0	
Sample Date:	A ⁽¹⁾	01/10/2023	01/10/2023	01/10/2023	01/10/2023 10.0	
Sample Depth (ft bgs):	1	9.5	9.5	10.0		
TPH (ug/L)						
Gasoline-Range Hydrocarbons	1,000 ^(a)	100 U	100 U	100 U	100 U	
Diesel-Range Hydrocarbons	500	67	69	80	50 U	
Motor-Oil-Range Hydrocarbons	500	250 U	250 U	250 U	250 U	
Diesel+Oil ^(b)	500	190	190	210	250 U	
VOCs (ug/L)						
Benzene	5	1 U	1 U	1 U	1 U	
Ethylbenzene	700	1 U	1 U	1 U	1 U	
Toluene	1,000	1 U	1 U	1 U	1 U	
Xylenes (total) ^(c)	1,000	3 U	3 U	3 U	3 U	
PAHs (ug/L)						
1-Methylnaphthalene	NV	0.4 U	0.4 U	0.4 U	0.4 U	
2-Methylnaphthalene	NV	0.4 U	0.4 U	0.4 U	0.4 U	
Benzo(a)anthracene	NV	0.04 U	0.04 U	0.04 U	0.04 U	
Benzo(a)pyrene	0.1	0.04 U	0.04 U	0.04 U	0.04 U	
Benzo(b)fluoranthene	NV	0.04 U	0.04 U	0.04 U	0.04 U	
Benzo(k)fluoranthene	NV	0.04 U	0.04 U	0.04 U	0.04 U	
Chrysene	NV	0.04 U	0.04 U	0.04 U	0.04 U	
Dibenzo(a,h)anthracene	NV	0.04 U	0.04 U	0.04 U	0.04 U	
Indeno(1,2,3-cd)pyrene	NV	0.04 U	0.04 U	0.04 U	0.04 U	
Naphthalene	160	0.4 U	0.4 U	0.4 U	0.4 U	
cPAH TEQ ^{(d)(2)}	0.1	0.04 U	0.04 U	0.04 U	0.04 U	

Table 2 Summary of Groundwater Analytical Results Lydig Construction Mount Vernon Library Commons



Notes

Detected results were compared to MTCA Method A screening criteria; non-detects (U) were not compared with screening criteria. There were no exceedances.

cPAH = carcinogenic polycyclic aromatic hydrocarbon.

ft bgs = feet below ground surface.

MTCA = Model Toxics Control Act.

NV = no value.

PAH = polycyclic aromatic hydrocarbon.

TEQ = toxicity equivalency.

TPH = total petroleum hydrocarbons.

U = result is non-detect at the method reporting limit.

ug/L = micrograms per liter.

VOC = volatile organic compound.

^(a)Screening level is for gasoline-range hydrocarbons with no detectable benzene.

(b) Diesel+Oil is the sum of diesel-range and motor-oil-range hydrocarbons. When results are non-detect, half the reporting limit is used. When both results are non-detect, the highest reporting limit is shown.

^(c)Total xylenes are reported by the laboratory.

^(a)When all cPAHs are non-detect, the highest reporting limit is used in lieu of the TEQ calculation.

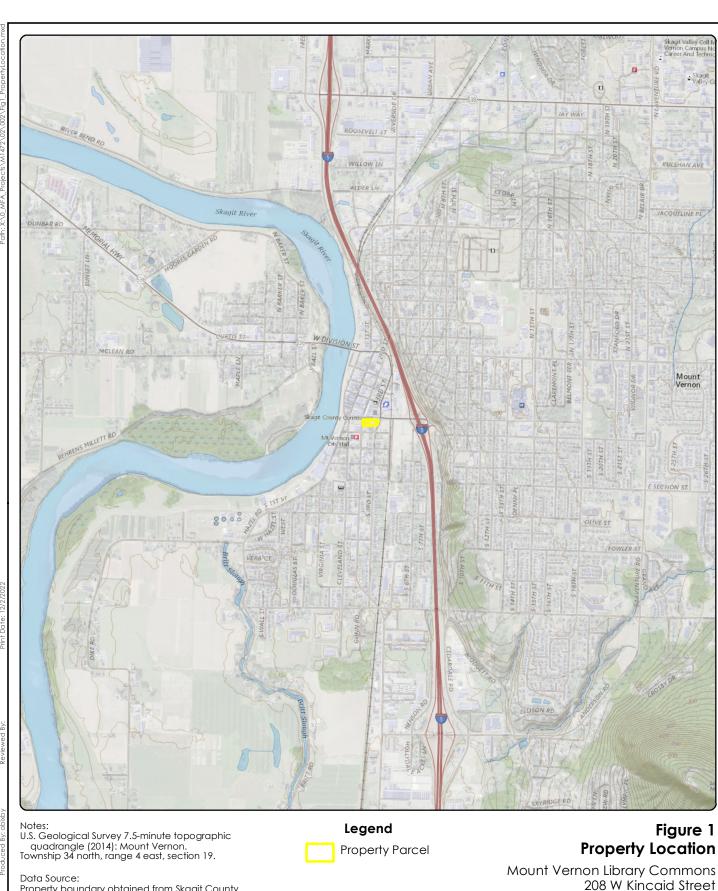
Reference

(1) Ecology. 2023. Cleanup Levels and Risk Calculation (CLARC) table. Washington State Department of Ecology, Toxics Cleanup Program. January.

⁽²⁾Ecology. 2015. Implementation Memorandum #10: Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs). Publication No. 15-09-049. Washington State Department of Ecology, Toxics Cleanup Program. April 20.

FIGURES





Property boundary obtained from Skagit County.



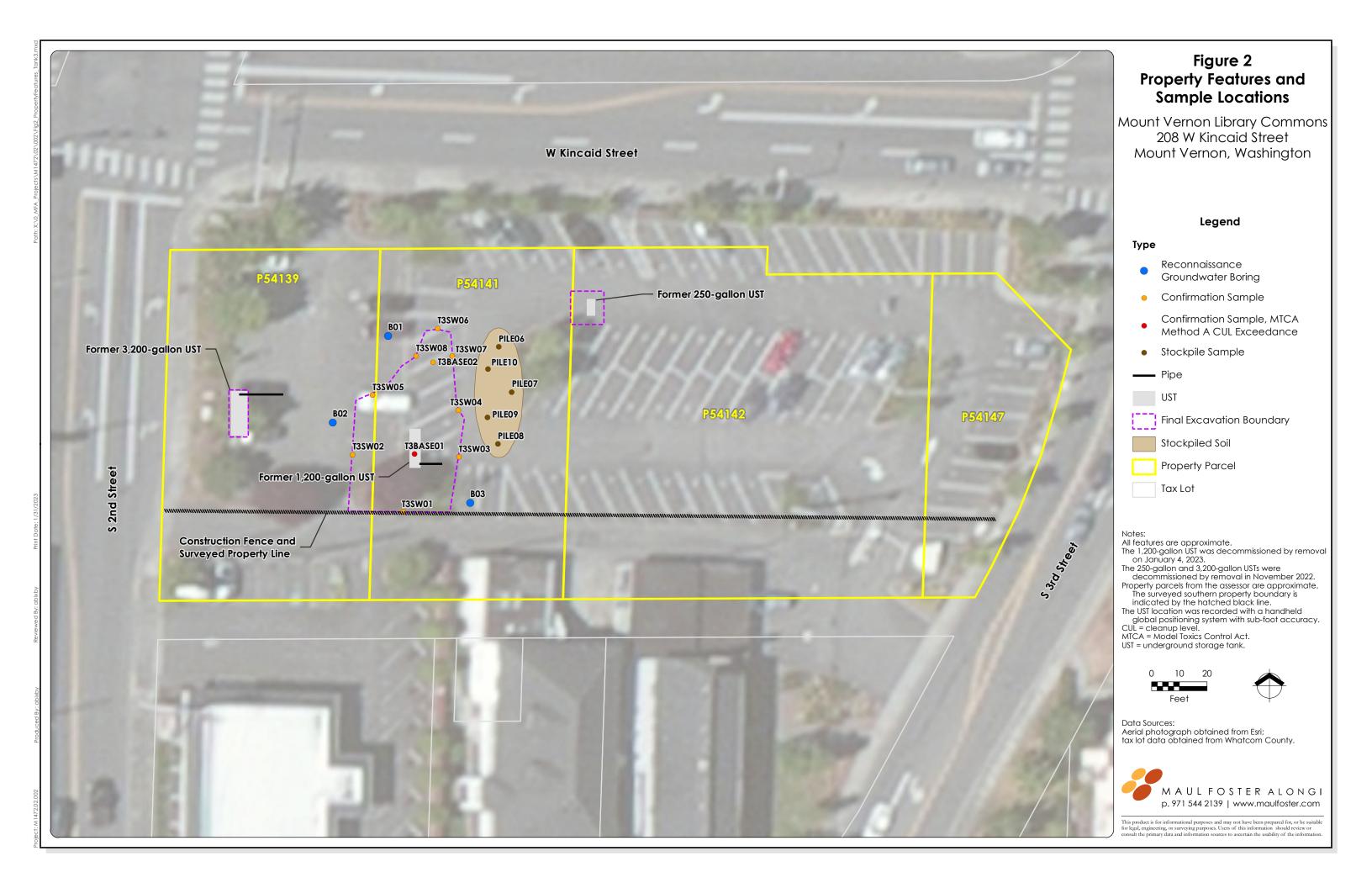
This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Property Location

208 W Kincaid Street Mount Vernon, Washington







ATTACHMENT A

FIELD PHOTOGRAPHS





Project Name: Mount Vernon Library Commons

Project Number: M1472.02.002

Location: 208 W Kincaid Street, Mount Vernon, WA

Photo No. 1.

Description

1,200-gallon underground storage tank (UST). Photograph taken on January 4, 2023, looking south.



Photo No. 2.

Description

Marine Vacuum emptying and triplerinsing the UST. Photograph taken on January 4, 2023, looking northwest.





Project Name: Mount Vernon Library Commons

Project Number: M1472.02.002

Location: 208 W Kincaid Street, Mount Vernon, WA

Photo No. 3.

Description

Earthwork contractor removing the inerted UST. Photograph taken on January 4, 2023, looking north.



Photo No. 4.

Description

No holes were observed in the 1,200-gallon UST; however, significant rust was observed on the steel walls. Photograph taken on January 4, 2023, looking southeast.





Project Name: Mount Vernon Library Commons

Project Number: M1472.02.002

Location: 208 W Kincaid Street, Mount Vernon, WA

Photo No. 5.

Description

1,200-gallon UST pit post-removal. Rinse water is visible in the base of the pit. Photograph taken on January 4, 2023, looking north.



Photo No. 6.

Description

Groundwater in the excavation at approximately 9.0 feet below ground surface (bgs). Bluish gray staining visible indicative of petroleum contaminated soil (PCS) in the excavation base below the former UST. Photograph taken on January 4, 2023, looking west.





Project Name: Mount Vernon Library Commons

Project Number: M1472.02.002

Location: 208 W Kincaid Street, Mount Vernon, WA

Photo No. 7.

Description

Overexcavation continued laterally until PCS impacts ceased. Final excavation extent was approximately 68 feet long by 36 feet wide, as shown on this photograph. Photograph taken on January 9, 2023, looking south.



Photo No. 8.

Description

Northern final extent of excavation. Photograph taken on January 10, 2023, looking west.





Project Name: Mount Vernon Library Commons

Project Number: M1472.02.002

Location: 208 W Kincaid Street, Mount Vernon, WA

Photo No. 9.

Description

Driller installing temporary well screen at boring location B01 for reconnaissance groundwater sample collection. Photograph taken on January 10, 2023, looking north.



Photo No. 10.

Description

Soil core (0 to 15.0 feet bgs) from boring location B01, northwest of the excavation.





Project Name: Mount Vernon Library Commons Project Number: M1472.02.002

Location: 208 W Kincaid Street, Mount Vernon, WA

Photo No. 11.

Description

Soil core (0 to 15.0 feet bgs) from boring location B02, west of the excavation.



Photo No. 12.

Description

Soil core (0 to 15.0 feet bgs) from boring location B03, east-southeast of the excavation.





Project Name: Mount Vernon Library Commons

Project Number: M1472.02.002

Location: 208 W Kincaid Street, Mount Vernon, WA

Photo No. 13.

Description

Contractor installing geo-piles in the vicinity of the former excavation area, post-backfill. The contractor plans to place a deep footing in south portion of the former excavation area. Photograph taken on January 17, 2023, looking southwest.



Photo No. 14.

Description

Deep footing adjacent east of the former excavation area. Deep footings are installed to approximately 9.0 feet bgs. Photograph taken on January 17, 2023, looking southeast.



ATTACHMENT B

PERMANENT CLOSURE FORM AND UST CHECKLISTS





PERMANENT CLOSURE NOTICE

FOR UNDERGROUND STORAGE TANKS

UST ID #: 5057 County: Skagit

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360A WAC. Instructions are found on the back page.

	II. OWNER/OPERATOR INFORMATION							
Facility Compliance Tag	g #:		Owner/Operator Name: City of Mount Vernon					
UST ID #: 5057			Business Name:					
Site Name: Mount Ver	rnon Library Com	mons	Address: 9	10 Cleveland Av	/enue			
Site Address: 208 W. K	Cincaid Street		City: Mour	nt Vernon	State: WA	Zip: 98273		
City: Mount Vernon			Phone:					
Phone:			Email: bill	@mountverno	nwa.gov			
		III. CERTIFIED UST	DECOMMISS	SIONER	TAR BEISEN			
Company Name: Clear Services, Inc.	creek Contractor	s, a Division of Holt	Service Pro	vider Name: Ja	ke Shalan			
Address: 10621 Todd F	Road East		Certificatio	n Type: ICC UST	Decommissioner			
City: Edgewood	State:	WA Zip: 98372	Cert. No.: 9940226 Exp. Date: 4/28/2024					
Provider Phone: 253.604.4878 Provider Email: dness@holtservicesinc.com								
Provider Signature: / the figh Da				Date: 1/10/2023				
1	IV. TANK INFORMATION							
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	removal	CLOSURE METHO	change-in-service	CLOSURE DATE		
TANK ID:	TANK CAPACITY		removal:			1/4/2023		
		STORED)		closed-in-place	change-in-service			
		STORED)	×	closed-in-place	change-in-service			
		STORED)		closed-in-place	change-in-service			
		STORED)		closed-in-place	change-in-service			
		STORED)		closed-in-place	change-in-service			
		STORED:		closed-in-place	change-in-service			
7	1,200-g	STORED:	⊠ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	closed-in-place	change-in-service	1/4/2023		
7	1,200-g	STORED: diesel V. REQUIRE	⊠ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	closed-in-place	change-in-service	1/4/2023 ements.		



SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

UST ID #: NA

County: <u>Skagit</u>

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360A WAC. Instructions are found on the last page.

I. UST F	ACILITY	II. OWNER/OPERATOR INFORMATION						
Facility Compliance Tag #: NA;	undocumented	Owner/Operator Name: Bill Bullock						
UST ID #: NA; undocumented		Business Name: City of Mount Vernon						
Site Name: Mount Vernon Libr	rary Commons	Address: 1024 Cleveland Ave	nue					
Site Address: 208 W Kincaid St	reet	City: Mount Vernon	Zip: 98273					
City: Mount Vernon, WA		Phone: (360) 336-6204						
Phone:		Email: BillB@mountvernonw	a.gov					
	III. CERTIFIED	SITE ASSESSOR						
Service Provider Name: Aman	da Bixby	Company Name: Maul Foster	& Alongi, Inc.					
Phone: (360) 635-8371 Email	: abixby@maulfoster.com	Address: 1329 North State St	reet, Suite 301					
Certification #: 9082049	Exp. Date: 2/28/24	City: Bellingham	State: WA	Zip: 98225				
	IV. TANK IN	NFORMATION						
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE ASSESSMENT	CHECK OR CONDUCTED				
NA; undocumented	1,200	Diesel 1/4/2023						
V. Rea	ASON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT (chec	:k one)					
□ Release investigation follows:	owing permanent UST system	n closure (i.e. tank removal or cl	osure-in-place).					
☐ Release investigation follo	owing a failed tank and/or line	e tightness test.						
☐ Release investigation follo	☐ Release investigation following discovery of contaminated soil and/or groundwater.							
☐ Release investigation dire	☐ Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.							
1 1	UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).							
☐ Directed by Ecology for U	ST system permanently close	d or abandoned before 12/22/1	1988.					
☐ Other (describe):								

	VI. CHECKLIST		
	The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication Guidance for Site Checks and Site Assessments for Underground Storage Tanks.	YES	NO
1.	The location of the UST site is shown on a vicinity map.	\boxtimes	
2.	A brief summary of information obtained during the site inspection is provided (Section 3.2)	\boxtimes	
3.	A summary of UST system data is provided (Section 3.1)		\boxtimes
4.	The soils characteristics at the UST site are described. (Section 5.2)	\boxtimes	
5.	Is there any apparent groundwater in the tank excavation?	\boxtimes	
6.	A brief description of the surrounding land use is provided. (Section 3.1)	\boxtimes	
7.	The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	\boxtimes	
8.	The following items are provided in one or more sketches:		
	Location and ID number for all field samples collected	\boxtimes	
	If applicable, groundwater samples are distinguished from soil samples	\boxtimes	
	Location of samples collected from stockpiled excavated soil	\boxtimes	
	Tank and piping locations and limits of excavation pit	\boxtimes	
	Adjacent structures and streets	\boxtimes	
	Approximate locations of any on-site and nearby utilities	\boxtimes	
9.	If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)		
10.	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	\boxtimes	
11.	. Any factors that may have compromised the quality of the data or validity of the results are described.		
12.	The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	\boxtimes	
	VII. REQUIRED SIGNATURES	_	
	Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360A-0730 through	0750.	•
Am	nanda Bixby 2/2/202	3	
Prii	nt or Type Name Signature of Certified Site Assessor Date	_	_

SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

Instructions

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or "change-in-service" of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted within thirty days of completing these activities to the following address:

Dept. of Ecology UST Section PO Box 47655 Olympia, WA 98504-7655

- **I./II. UST Facility and Owner/Operator Information:** Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.
- **III. Service Provider Information:** It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology's *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*.
- **IV. Tank Information:** Use the same Tank identification numbers listed on the facility's Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.
- V. Required Signature: The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

Further questions? Please contact your regional office below and ask for a tank inspector to assist you.

Regional Office	Counties Served
Central (509) 575-2490	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima
Eastern (509) 329-3400	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman
HQ (360) 407-7170	Federal facilities in Western Washington
Northwest (425) 649-7000	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom
Southwest (360) 407-6300	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

or find a complete list of UST inspectors at:

www.ecy.wa.gov/programs/tcp/ust-lust/people.html

ATTACHMENT C

UST PERMIT AND WAIVER



12/19/2012-I, Ametic Adenosia, wiwe the "wast time": 30-DAY NOTICE PORMAN

DEPARTMENT OF

ECOLOGY State of Washington

FOR UNDERGROUND STORAGE TANK SYSTEMS

UST ID #: 5057

County: Skagit

This form provides Ecology 30-days' advanced notice for projects, as required by Chapter 173-360A WAC. Instructions are on the back page.

Please ✓ the a	ppropriate box:	Intent to	Install X In	tent to Close	Change-i	n-Service			
	I. SITE INFO	PRMATION		II. Own	ER/OPERATO	OR INFORMAT	ION		
Tag or UBI # ((if applicable):		(Owner/Operator Name: City of Mount Vernon					
UST ID # (if a	pplicable): ₅₀₅₇		E	Business Name:					
Site Name:	Mount Vernon	Library Comn	nons N	Mailing Address: 91	0 Cleveland	l Avenue			
Site Address: 208 W. Kincaid Street				City: Mount Verno	n	State: WA	Zip: 98273		
City: Mount Vernon				Phone: (360) 336-6	5204				
Phone:			E	mail: BillB@moun	itvernonwa	.gov			
		eck the appropri	for this project, fill (han one service prov					
				d by the Departme	-	•			
1)		commissioner		sor					
Company Na	me: Clearcreek Co Services, Inc.	ntractors, a divi	sion of Holt	Certification Type: ICC UST Decommissioner					
Service Provider Name: Darren Ness				Cert. No.: 8470564 Exp. Date:4/21/2023					
Provider Pho	Provider Phone: (206) 549-4080				Provider Email: dness@holtservicesinc.com				
2) 🗌 Ins	staller 🗌 De	commissioner							
Company Na	^{me:} Maul Fost	er & Alongi,	Inc.	Certification Type:	CC Site A	ssessor			
Service Provi	der Name: Chr	istian Sifford	ı	Cert. No.: 10185106 Exp. Date: 2/28/2024					
Provider Pho	ne: (541) 391-36	52	F	Provider Email: csifford@maulfoster.com					
		IV.	TANK AND/OR PIF	PING INFORMATION	d				
TANK ID	TANK CAPACITY	SUBSTANCE STORED	PIPING INSTALLATION OR REPLACEMENT ONLY (Y/N)	DATE PROJECT IS EXPECTED TO BEGIN		COMMENTS			
	1,200-g	Diesel		12/22/2022					

					_				



DEVELOPMENT SERVICES

910 Cleveland Avenue Mount Vernon, WA 98273 (360) 336-6214 -- Office (360) 336-6243 -- Inspections

INSPECTION RESULTS RECORD

 DATE PRINTED: 01/12/2023
 PERMIT TYPE: Tanks (Install, Decommission, and/or Remove)
 PERMIT #: FIRE22-0129

 SITE ADDRESS: 208 WEST KINCAID STREET
 INSPECTOR: Barry Kerth
 PARCEL #: P54142

OWNER NAME AND CONTACT:

CITY OF MOUNT VERNON 910 CLEVELAND AVE

MOUNT VERNON, WA 98273

(360) 336-6204

CONTRACTOR NAME AND CONTACT:

HOLT SERVICES INC 10621 Todd RD E EDGEWOOD, WA 98372 (253) 604-4878

CONTRACTOR LICENSE #:

602 690 511

INSPECTION TYPE: INSPECTOR: INSPECTION DATE:

FINAL INSPECTION - FIRE Barry Kerth 01/12/2023

TASK DESCRIPTION: Final Inspection - Fire STATUS: PASSED Complete

COMMENTS:

ATTACHMENT D

WASTE MANIFESTS



Soil Import and Export Quantities Lydig Construction Mount Vernon Library Commons



Date	Ticket	Export: Class 3 Soil	Import: Pit Run/Gravel Borrow
	Cadman 1124522991	54,500 lbs	
	Cadman 1124523004	51,540 lbs	
1/11/2023	Cadman 1124523011	64,840 lbs	
	Load Total	85.44 tons	
	Cadman 1124522995	50,380 lbs	
1/11/2023	Cadman 1124523007	50,560 lbs	
	Load Total	50.47 tons	
	Cadman 1124522990	51,620 lbs	
	Cadman 1124523001	50,500 lbs	
1/11/2023	Cadman 112452310	52,660 lbs	
	Load Total	77.39 tons	
			99.8 tons
			100.2 tons
1/11/2023	Pellco 13657		99.0 tons
	Load Total		299.0 tons
	Gra	nd Totals	
	Total Export: Class 3 Soil	213.3 tons	
Total	Import: Pit Run/Gravel Borrow	299.0 tons	

-- = no value.

lbs = pounds.

PELLCO construction, inc

13920

13036 Beverly Park Rd, Mukilteo, WA 98275 425-265-7211 (Fax) 425-265-7215 www.pellcoconstruction.com

Ticket Number

		EAMST	ER TIME	TICK	ET - If	Rental I	Drive	er - Ple	ase	attach yo	ur compar	ny ticket		
Date:	1/11	1/23		D	rivers Na	ame (Pleas	se Print)	In	rea	Ram	eg			15
(Circle D	Day) S M	TO	TH F S			Company			e/1	co	_/			
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	_		/			- AM / PI				gnature: X				
rime s	igned out	at Truck	aru.			AM / PI	IVI	Truck	Ross	Signature:	X			



Petroleum Contaminated Soil Transport and Receiving Manifest

Generator/Property Owner

CADMAN Contaminated Soil Site Information Sheet.

Authorized Signature _____ Date____

CUSTOMER: LYDIG JOB NAME: MVLC

Name: CITY OF MT VERNON

CLASS 3 ONLY **

Transporter

Address: 1024 CLEVELAND AVE		Address: VARIOUS			
City: MT VERNON ST: WA ZIP: 98	101	City: ST ZIP:			
Telephone:		Telephone:			
Contact:	П.	Contact:			
Job Site Information		Receiving Facility			
Address 208 W KINCAID ST		CADMAN SOIL REMEDIATION			
City: MT VERNON ST: WA ZIP:		17 EAST MARINE VIEW DRIVE, EVERETT 98201			
Telephone: 425.885.3314		Phone: 425.210.8429			
Onsite Contact: ALEX CAREY		Contact: Larry W. Baker			
Material Description	Class	Off-load Location			
Petroleum Contaminated Soil	3	CADMAN Soil Remediation			
Truck #: Pellco DT-11	1				
Driver Signature:		Date/Time In: 1/2/23			
Scale Attendant Signature:		Date/Time in: () (C)			
Owner/ Authorized Agent					
This is to certify that the accompanying by the previously submitted analytica					

CA	AD		A	
HEIDE	LBERG	CEME	NTGro	oup *

(888) 322-6847 425-961-7100

98 WEIGHMASTER STATION

Sno River Delta Soils 17 E. Marine View Dr. Everett, WA 98213 425-961-7100

1124522991	TICKET TIME	8:25:54AM	1/11/2023
PayAetTypht	FYDIGNCONST INC.	DATE	Pro124345
Customer P.O.		Map Ref. /	Disp. Ord. #
ailer TPETP:11TT	Vehicle or License Plate No	. Trailer or License Plate No.	Zone
Driver's Name	Belivered/Ordered	Load No. 2	Running Total 3.06
	Customer P.O.	PayAret Prent Gureneg Name NST INC. Customer P.O. Ailer Truck No. 11TT Vehicle or License Plate No.	PayAnd Typent Gustomer P.O. Customer P.O. Wehicle or License Plate No. Trailer or License Plate No.

DEL/P MVLC

DEL/P 208 W KINCAID ST MT VERNON



9	Product 9005		CLASS 3	SOILS (TN	scription		entriev.	/	Total	Unit Price	Amount
SCALE	weight 97,460	LB	GRO	OSS & TARE			GE WILL BE A JTES UNLOAD	SSESSED FOF	LOADS	Fuel Surcharge	
Gross		LB/P.T.	— X □ S%Adel	Scale-2	LIABILITY Cadman, (THE PERSON NAMED IN	nt assume Lia	ibility for any	property	Sales Tax	
Net	54,500		XDeput	y Weighmaster	 the curb lir	ne.	nent damage f	or any deliver		Total	
Vo one available signature.	to sign, customer w	aives receipt Rec	eived by Signature		Print Name (C	customer)		Driver's Signatur	re	Standby Time	
Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initia		This Tickets Grand Total	

CADMAN	
HEIDELBERG CEMENTGroup)

(888) 322-6847 425-961-7100

9884 GHMASTER STATION

Sno River Delta Soils 17 E. Marine View Dr. Everett, WA 98213 425-961-7100

TICKET NO.	1124523004	TICKET TIME 1	0:07:18AM DATE	1/11/2023
Customer No. 7821451	Payment Type Account	Customer Name LYDIG CONST INC.		Order No. 10124345
Customer Job. No.	Customer P.O.		Map Ref. /	Disp. Ord. #
TruckType Truck & Tr	Truck No. ailer PELL11TT	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No. 5	Running Total 129.27

DEL/P MVLC
DEL/P 208 W KINCAID ST
MT VERNON



Product 99005		CLASS 3 SOILS (TN)	Unit Price Amo	ount		
SCALE WEIGHT 94,500 L	В	GROSS & TARE	A STANDBY SURCHARGE WILL THAT EXCEED 10 MINUTES UN		Fuel Surcharge	
Gross		Scale 1 Scale 2	Cadman, (Inc.) will not assun	ne Liability for any property		
Tare Scale 1 Scale 2 Ange.li.que X Deputy Weighmaster			damage or any equipment dan the curb line.		Total	
No one available to sign, customer waiv signature.	es receiptY Receive	d by Signature	Print Name (Customer)	Driver's Signature	Standby Time	
ATTIVE JOD I	Start Unloading	Finish Unloading	Standby	Customer's Initials	This Tickets Grand Total	

CADMAI	V
HEIDELBERGCEMENTGro	up.

(888) 322-6847 425-961-7100

98 WEIGHMASTER STATION

Sno River Delta Soils 17 E. Marine View Dr. Everett, WA 98213 425-961-7100

TICKET NO.	1124523011	TICKET TIME	11:45:46AM DATE	1/11/2023
Customer No. 7821451	Payment Type ACCOUNT	Customer Name ONST INC.		10124345
Customer Job. No.	Customer P.O.		Map Ref. /	Disp. Ord. #
Truck Type Truck & Tr	ailer PELL 11TT	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No. 8	Running Total 213.30

DEL/P MVLC
DEL/P 208 W KINCAID ST
MT VERNON



Product 99005	C	LASS 3 SC		Description			Total 32.42	Unit Price	Amount
SCALE WEIGHT	LB	GROS	S & TARE		Y SURCHARGE W EED 10 MINUTES			Fuel Surcharge	
Tara	LB/P.T.*	X [Scale 1 Sc Angeli	ale 2	Cadman, (Inc.) will not ass	ume Liability for	any property	Sales Tax	
64,840 <u>I</u>	.B	X	Que Veighmaster	the curb li	r any equipment d ne.	amage for any de	livery beyond	Total	
No one available to sign, customer wa signature.	ives receipt Received	by Signature		Print Name (0	Customer)	Driver's Si	gnature	Standby Time	
Affive Jon 1	Start Unloading		Finish Jnloading		Standby Time	Customer	s Initials	This Tickets Grand Total	•

13628

13036 Beverly Park Rd, Mukilteo, WA 98275 425-265-7211 (Fax) 425-265-7215 www.pellcoconstruction.com

Ticket Number

	T	EAMST	ER TIME	TICK	ET - If	Rental	Drive	er - Pl	ease	attach you	ur compar	y ticket		5
Date	1	11-21				ame (Plea			avo	117 127/415	brow.	1		
		⊤ (10)	TH F S			Company		77	elle		N / C	7		
Start	C30	,	M PM	E .	Fruck Nu	mber:		# 1)T	& Trai	ler Number:	#02	808	`
	ASE PROV		AGE READI	NGS**	Start Mile	age Rea	ding	150	946	Miles Stop	Mileage Reed			Miles
	ned: ಟೆಟಿ	30	AM PM			ers Time		-	9	Hours Total	T&T	9		Hours
1/2 H	our Lunch		Yes No		Total Equ	ipment T	ime		4	Hours Total	l Solo			Hours
		: * "	afef a	TRIP	LOG -	Please	attac	h ALL	. sca	le tickets			- 1-	
Load No.	Load Time	T&T Solo	Job Number	Nome	Descr	ription 1 / Product	Tuna			Material/Equip		Unloaded	Time (Hours)
200			- No 1997	Ivaille		conser		Loaded	d From	Quantity	Delivered To	Time	ST	OT
	745	在十	8215	EXF	DOM'S	10	14	22	15	.25.18	Everet	845		2000
2	943					Cl-55	5	MUL	-C	2525		1030		
3	1130			Int	port			Big	rate		MVLC	1215		
4	100				New	TOWN	194	ra '	(30)	11:71	11	130	b	
5			建版 以註									10000	100	VIII.
6	T PN 110-2173-6	ANTE CONTRACT	N 100 100 100 100 100 100 100 100 100 10				W. College College	193082024		1111-2007-101910	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	To The sales	300007-000	
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1000	raffi (a VA	Miles also		Madeland		ur die ka		陈裕明			Sign of Lean			96.9
8	CENTRAL PROPERTY	E. H. Lavingson	A STANDARD STORY	E2834914	HIGH STATE OF	(*90.45)*92(own na			- Contract	1000000	
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-11		相關語												
12														
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			* # 7 =		•	AMMU	BV O	E TO	TA I S			200		, N (C)
# of	Job		Category		Craft		(Hours)		T T	200	Takat	la.	(0)	10 1
Load		r Co	st Code Nun	nber	Туре	ST	OT	- T&T Solo		Location Name	Total Quantitie	Measur S CY	TCY	TON
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				Tomas,		100					na travela	State Contract	i da ana	
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			2020	ie i						Travel Time	25 表表			
				Tota	al Hours:	1	1			Fickets receive		er? Yes	No	92
Proje	ct Manage	r Approva	al: X					-	Hea	vy Job Input?	?	Yes	No	
		2 1	# (, a	- F-18	SIGNA	TURE	BLC	CK					
I cert	ify that I ha	ave not be	een injured	on the	job toda	y. If I hav	/e beer	n injure	d, I ce	rtify that I hav	e notified my	/ immediat	e supe	rvisor.
Drive	rs Signatu	ıre: X	Ed					_	Inju	red on the jo	ob today?	Yes	(No))
Time	signed out	at Jobsit	e./	2		AM / F	PM	Job	Site S	ignature: X	55	+20		90
Time	signed out	at Truck	Yard:	ک (3-0	_ ам /(E	M)	Truc	k Bos	s Signature:	X			



Petroleum Contaminated Soil Transport and Receiving Manifest

CUSTOMER: LYDIG
JOB NAME: MVLC

CLASS 3 ONLY **

Generator/Property	Owner	Transporter					
Name: CITY OF MT VERNON							
Address: 1024 CLEVELAND AVE		Address: VARIOUS					
City: MT VERNON ST: WA ZIP: 98.	101	City: ST ZIP:					
Telephone:		Telephone:					
Contact:		Contact:					
Job Site Information		Receiving Facility					
Address 208 W KINCAID ST		CADMAN SOIL REMEDIATION					
City: MT VERNON ST: WA ZIP:		17 EAST MARINE VIEW DRIVE, EVERETT 98201					
Telephone: 425.885.3314		Phone: 425.210.8429					
Onsite Contact: ALEX CAREY		Contact: Larry W. Baker					
Material Description	Class	Off-load Location					
Petroleum Contaminated Soil	3	CADMAN Soil Remediation					
Truck #:							
Driver Signature: Scale Attendant Signature:)	Date/Time In: 1/11/23					
Owner/ Authorized Agent		* 27 %					
This is to certify that the accompanying by the previously submitted analytical CADMAN Contaminated Soil Site Ir	and is solely	from the site listed on the					
Authorized Signature		Date					

				0005	*						or and the order and the contract of the
CADMAN	TICKET NO	J.	12452	2995		TICKET TIN	ΛE	8:45:28AM	DATE	12	/11/2023
HEIDELBERG CEMENTGroup (888) 322-6847 425-961-710	Customer /	NS:1 Pa	WASTE A	ünt	Custern	G ^N CONST I	NC.			1	Pogr 24345
98 WEIGHMASTER STATION	Customer	Job. No. C	ustomer F	.O.				Map Ref. /	Ţ	Disp. Or	d. #
Sno River Delta Soi			Truc	r No		L Vahiala ar Licansa	Dieta No	Trailer or License Pla	to No. 7	one	
17 E. Marine View Dr.	Trười	& Trail	ler PE	PELSTT		Vehicle or License	riate No.	Italier of Licerise Fla	ite No.	orie	
Everett, WA 98213 425-961-7100	Hauler/Car	rier No.	Oriver's N	ame		Delivered/Ordere	ed .	Load No.	3 F	Running	Total 8.25
DEL/P MVLC		il.									
DEL/P 208 W KINCAID MT VERNON) ST	81								.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Product 99005	CLASS 3 S	SOILS (T)	Descr	iption				Total 25.19	Unit Pr	ice	Amount
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SCALE WEIGHT	Y GRO	OSS & TARE	Y	CTANDON	CUDOUAD	OF WILDE AC	````	D FOR LOADS	Fuel	-	2
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are 50,380 LB	Saligel	□ Scale 2e	C	adman, (I amage or	nc.) will no any equipm	ot assume Liat nent damage fo	oility fo	r any property elivery beyond	Sales Ta	ax	
et	XDeput	y Weighmaster	— ∫th	e curb lin	e.	5	_		Total		
one available to sign, customer waives receipt gnature.	Received by Signature X) X	int Name (Ci	ustomer)	1	Driver's S	Signature	Standb Time	у	*
rrive Job Start Unloadin		Finish Unloading		Ĭ	Standby Time	Î	200	r's Initials	This Tic Grand T		
CADMAN HEIDELBERGCEMENTGroup	TICKET NO Customer)	J.	12452 Waet Ty	2500000000	Custome	TICKETTIN G ^{Na} CONST I	/IE	0:27:54AM (C	DATE		/11/2023 Drd 124345
(888) 322-6847 425-961-710	0 Customer L	lob. No. Cu	ustomer P.	O.				Map Ref. /	С	Disp. Or	d.#
Sno River Delta Soi	ls Truck Type	. & Trail	Truck	VN8·mm		Vehicle or License	Plate No.	Trailer or License Pla	te No. Zo	one	
17 E. Marine View Dr. Everett, WA 98213	Truck	. & Trali	err	LETT		JEFF					
425-961-7100	Hauler/Care	ier No. [Priver's Na	ıme	1	Delivered/Ordere	d	Load No.	6 F	Running	Total 154.55
DEL/P MVLC		, in the second									
DEL/P 208 W KINCAID MT VERNON	ST										
Product 99005	CLASS 3 S	OTIC /mx	Descri	ption				Total 25.28	Unit Pri	ice	Amount
,55005	CLASS 3 8	OILS (II	v)			E		25.28			
SCALE WEIGHT	GRO	SS & TARE	A	STANDBY	SURCHAR	GE WILL BE AS	SESSE	D FOR LOADS	Fuel		
93,120 LB ross 42,560 LB/P.T	<u>*</u> x			ABILITY V		JTES UNLOADI	NG TIMI	E.	Surchar Sales Ta		
sre50,560 LB	Scale 1 Angel	Scale 2 ique	da	image or a	any equipm	ot assume Liab nent damage fo				1.	<i>\(\text{i} \)</i>
et one available to sign, customer waives receipty F	Deputy	Weighmaster		e curb line		Y	Driver's S	ignature	Total Standby	,	
jnature.	X		lx				X		Time	,	6
rrive Job Start Unloading		Finish Unloading		Ĭ	Standby Time		Custome X	's Initials	This Tick Grand To	kets otal	

<u>Lx</u>

13036 Beverly Park Rd, Mukilteo, WA 98275 425-265-7211 (Fax) 425-265-7215 www.pellcoconstruction.com

Ticket Number

		EAMST	ER TIME	TIC	KET - If F	Rental	Drive	er - Ple	ase	attach you	ur compar	ny ticket		hi eğ	
Date			1-23		Drivers Na										
	Day) S M		TH F S		Trucking C					peller			34		
Start	S. S. S.	> 600	PAY PM		Truck Num			#		1	ler Number:	#10	14		
PLE			AGE READII	NGS	Start Milea	ige Rea	ding	817	58	Miles Stop	Mileage Reed	ling 82	075	Miles	
Finis		30	AM P		Total Drive			-		Hours Total	T&T			Hours	
1/2 H	lour Lunch		Yes 🗽		Total Equip	oment T	ime			Hours Tota	l Solo			Hours	
			a single	TRIP	LOG - P	lease	attac	h ALL	sca	le tickets				-	
Load No:	Load Time	T&T Solo	Job Number	Nam	Descrip e / Location	otion / Product	Type			Material/Equip		Unloaded	_	(Hours)	
25-54	ALCOHOLD HOLD	STATE SAY	AVER S CELECO	100.5300		Vilderich -	1.00	Loaded		Quantity	Delivered To	Time	ST	ОТ	
1	745	74	39-12	con	i fan min	urd.		22	5		Carre	825			
2	900				1							955			
3	1000	1	4		1			1			W.	1120			
4	1200	+	+ "	6	PIT K	1		301	ake		23.16	1240			
5	1:15		网络		The state of						1	215			
6			S339 15/45-6	10000000	DECORPORAL CO	25.007.00	(SP/P)		U	DE AVED CHOR		0-13	10000	52V2008	
7	KUL EN	Discount of	00 8800	711,2°	松景 加度10	15375765	F23(E)	digital china	0.00	ever services	(A) (G) (A) (A) (A) (A)	与人是多数	879-01	No.	
(Party			第5月 00日	II S	是其他										
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9	Tree U.S.														
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								F ТОТ/	ALS		L LIGHT	<u> </u>			
# of Loads	Job Numbe	r Cos	Category st Code Num	ber	Craft Type	Time (ST	Hours) OT	T&T Solo		Location Name	Total Quantities	Measure			
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out the last	PERCHA-	W. Halland	E Walter of the	02000	er II en o	And the last of	945507/I	10 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VIII-N	Visit - Alive motion	ALL THE ALL IN BUILDING	7 TO TO S	HUADIO!	at works	
		10000000000000000000000000000000000000										經濟學			
			2020					in and the		Travel Time					
				Tot	al Hours:	8	1/2		All T	ickets receive	d from Drive	r? Yes	No		
Projec	ct Manager	Approva	I: X		'		100 ST			vy Job Input?	a nom brive	Yes	No		
				, I		IGNA	ri ileae	BLO		T de la la			NT F	ু ৱ	
l certi	ify that I ha	ve not be	en injured	on the						tify that I have	notified mi	immodiata	CURS	nvico-	
	rs Signatu		I/	\	Job louay.	11 1 Havi	e neell	injurea, ;						VISOL	
						A 1 4 7 E		• •	_	red on the joi	o today r	Yes	No		
	signed out					AM / PI				gnature: X					
rime s	signed out	al ITUCK '	raru.			AM / PI	VI	Truck	Ross	Signature: X					

CADMAN	TICKET NO.	1124	522990		TICKET TI	ME	8:09:00AM	DATE	1/11/2023
HEIDELBERGCEMENTGroup* (888) 322-6847 425-961-7100	Customer No. 1	Payment ACC	Type	Custom	erName G CONST 1	INC.			Programa 345
98 WEIGHMASTER STATION	Customer Job. No.	Custome	er P.O.				Map Ref. /	Disp.	Ord.#
Sno River Delta Soils	Touck Time	17			Vehicle or License	- Dista Na	Trailer or License Pla	to No. 7	
17 E. Marine View Dr.	Truck Type Truck & Tr	ailer"	PELL10TT		venicle or License	e Plate No.	Trailer or License Pla	te No. Zone	
Everett, WA 98213 425-961-7100	Hauler/Carrier No.	Driver's	s Name		Delivered/Ordere	ed +	Load No.	1 Runn	ing Total 25.81
DEL/P MVLC		4.							
DEL/P 208 W KINCAID ST MT VERNÔN		EIDELI No	Library Serie of Musicine						
Product	CLASS 3 SOILS	De:	scription				Total	Unit Price	Amount
39003	CLASS 3 SOILS	(IN)					25.81		
SCALE WEIGHT 94,820 LB	GROSS & TARE		A STANDBY SURCHARGE WILL BE ASSESSI THAT EXCEED 10 MINUTES UNLOADING TIM					Fuel Surcharge	
iross43,200 LB/P.T.*	- <u>X</u>		LIABILITY					Sales Tax	
51,620 LB	Scale 1 Scale 2 Angelique X Deputy Weighma				Cadman, (Inc.) will not assume Liability for damage or any equipment damage for any of the curb line.				
o one available to sign, customer waives receipt Receipgnature.	ved by Signature	1100 CONTENUO 1100 CO			Print Name (Customer) X Driver' X			Standby Time	
rrive Job Start Unloading	Finish	ing)	Standby Time			r's Initials	This Tickets Grand Total	
CADMAN	(TICKET NO.		523001		TICKET TI		9:42:47AM (C	DATE	1/11/2023
HEIDELBERG CEMENTGroup* (888) 322-6847 425-961-7100	Customer Ne. 1	Payment		Custern	G ^N CONST 1	INC.			Programme 345
98 WEIGHMASTER STATION	Customer Job. No.	Custome	er P.O.				Map Ref. /	Disp.	Ord.#
Sno River Delta Soils 17 E. Marine View Dr.	Truck Type Truck & Tr	ailer	PELE 10TT	1	Vehicle or License	Plate No.	Trailer or License Pla	te No. Zone	
Everett, WA 98213 425-961-7100	Hauler/Carrier No.	Driver's	Name		Delivered/Ordere	ed	Load No.	4 Runn	ing Total 3.50
DEL/P MVLC DEL/P 208 W KINCAID ST MT VERNON	E H	EIDELI WA	Penda ya Barata Ekstera Wasasima						
Product 99005	CLASS 3 SOILS	Des (TN)	scription				Total 25.25	Unit Price	Amount
33003	CDA33 3 30113	(11/)			5.		-23.23		
SCALE WEIGHT 93,700 LB	GROSS & TARE				GE WILL BE AS UTES UNLOAD			Fuel Surcharge	
ross 43,200 LB/P.T.*	- x - Sahlelsidie		Cadman, (Inc.) will not assume Liability for damage or any equipment damage for any de the curb line.				any property	Sales Tax	
50,500 LB	X Deputy Weighmas	ster					elivery beyond	Total	

Print Name (Customer)

Standby Time

Finish Unloading Driver's Signature

X Customer's Initials

X

Standby Time

This Tickets Grand Total

one available to sign, customer waives receipt Received by Signature nature.

rrive Job

Start Unloading

CADI	MAN
HEIDELBERGO	EMENTGroup*
(888) 322-6847	425-961-7100

98 WEIGHMASTER STATION

Sno River Delta Soils 17 E. Marine View Dr. Everett, WA 98213 425-961-7100

TICKET NO.	1124523010	TICKET TIME	11:10:01AM DATE	1/11/2023
Customer No. 1	Payment Type ACCOUNT	Custoffer CONST INC.		20124345
Customer Job. No.	Customer P.O.	I.	Map Ref. /	Disp. Ord, #
Truck Type Truck & Tr	ailer PELL10TT	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Hauler/Carrier No.	Driver's Name	- Delivered/Ordered	Load No. 7	Running Total 180.88

DEL/P MVLC DEL/P 208 W KINCAID ST MT VERNON

|--|--|--|

				AND THE PROPERTY.	Children (1993)				
Product 99005	LASS 3 S	Description ASS 3 SOILS (TN)					Unit Price	Amount	
SCALE WEIGHT 95,860	LB	GRO	OSS & TARE		Y SURCHARGE V		SSESSED FOR LOADS	Fuel Surcharge	
iross 43,200	43,200 LB/P.T.*			LIABILITY Cadman,	(Inc.) will not as	Sales Tax			
52,660 et	LB	X	y Weighmaster	damage o	r any equipment ne.	Total	•		
o one available to sign, customer wanature.	aives receipt Received	by Signature		Print Name (0	Customer)		Driver's Signature	Standby Time	181
rrive Job	Start Unloading		Finish Unloading		Standby Time		Customer's Initials	This Tickets Grand Total	

PELLCO construction, inc 13036 Beverly Park Rd, Mukilteo, WA 98275 425-265-7211 (Fax) 425-265-7215 www.pellcoconstruction.com

13657

Ticket Number

	Ţ	EAMST	ER TIME	TICKET -	If Rental	Drive	er - Ple	ase	attach yo	ur compai	ny ticket		
Date	1-11-2				s Name (Plea		CT - 100	-	n Lund				
	Day) S M	T (W)	TH F S		ng Compan		7.0	En	(D)				
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2	1.33	SD	22-15	grave	130110	W	Bigle	ke	104/20	22-15	9 15		
3	10'W	Sb	22-15	que	1 Bin	1	130 10	de	944w	2215	11:0		
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			2020				200		Trável Time				
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Projed	t Manager	Approval	: X				_	Heav	y Job Input?		Yes	No	
					SIGNA	TURE	BLOC	K	, F				
I certi	fy that I ha	ve not be	en injured	on the job to	day. If I hav	e been	injured,	l cer	tify that I hav	e notified my	immediate	supe	visor.
	rs Signatu		v_						ed on the jo		Yes	(No)	
Time s	signed out	at Jobsite	: 2	-:48	AM/P	М	- Job Sit	te Sig	nature: X	-	_		
Time s	signed out	at Truck \	ard:	3:34	 AM / P	М			Signature: X	(

STRAIGHT BILL OF LADING

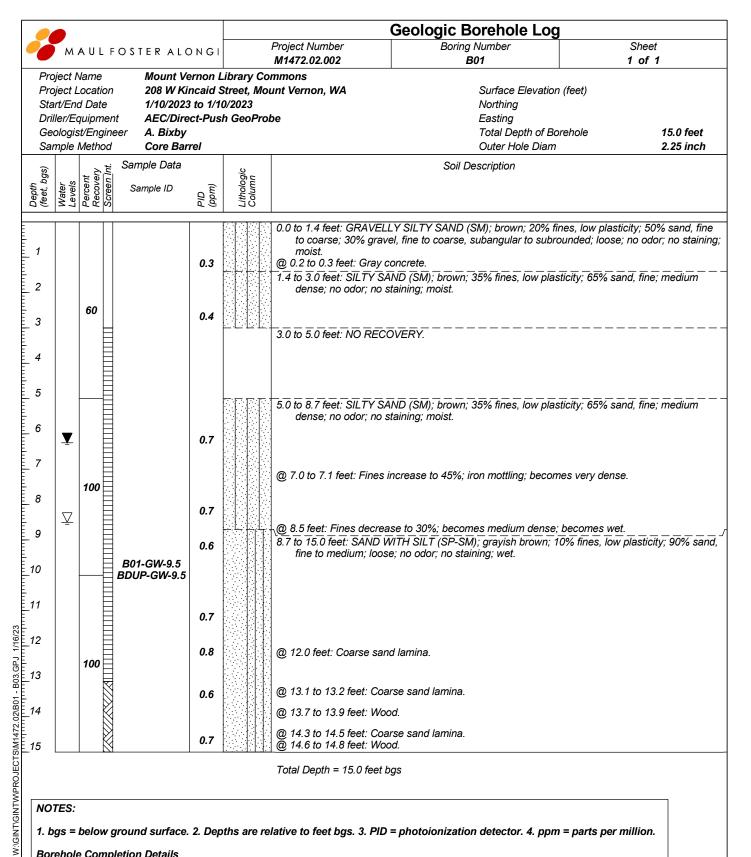
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No. of Units	НМ		ASIC DESCRIPTION	Packing Croup	TOTAL QUANTITY (Weight, Volume,	WEIC (Subje	HT	RATE	CHARGES (For Carrier			
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ote — (1) Where the pecifically in writing the greed or declared value e not exceeding	rate is depende a agreed or declar of the property	NDERED: YES NO part on value, shippers are required to state ared value of the property, as follows: The shereby specifically stated by the shipper to per	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged	000	A		C.O.D. FE	EE:				
release or a value de ne carrier's liability or de rovided by such provision 3) Commodities requiring tust be so marked and p	eclaration by the eclare a value, the ens. See NMFC It ig special or addi- packaged as to e . Freight Bills an	itional care or attention in handling or stowing nsure safe transportation. See Section 2(e) of d Statements of Charges and Section 1(a) of	marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Signature	Subject to Section 7 of the consignee without recourse of following statement: The carrier shall not mak freight and all other lawful cha	Amt: \$ conditions, if this shipment is to be on the consignor, the consignor a delivery of this shipment without ges. Signature of Consignor)	shall sign the	TOTAL CHARGE FREIGHT PF except when right is check	S \$ GHT CHAR REPAID Che	IGES ck box if charges are to be collect			
the tent (the pos- nati	property describe s of packages un word carrier being session of the pro on, if on its route,	o the classifications and tariffs in effect on the date d above in apparent good order, except as note known), marked, consigned, and destined as in gunderstood throughout this contract as mean perty under the contract) agrees to carry to its us- otherwise to deliver to another carrier on the rou- to carrier of all or any of, said property over all or	of the issue of this Bill of Lading, I (contents and condition of condicated above which said carrier ing any person or corporation in all place of delivery at said destite to said destination. It is mutu-	tination and as to each be performed hereunder sification on the date o Shipper hereby o	party at any time interested in all shall be subject to all the bill of ladir f shipment. pertifies that he is familiar with a n and the said terms and condition	all the lading te	perty, that eviditions in the corresponding	very service to governing clas- nditions in the	9			
HIPPER C	LEAT	n cheer	contractor	CARRIER MAR	INE VACUUM	SERV	ICE, I	NĆ.				
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Permanent post-of	lice address	or snipper.	and the second second	STYLE F375-4 © 2	2012 LABELMASTER® (8	500) 621-580	o www.la	permaster.	com			

ATTACHMENT E

GEOLOGIC BORING LOGS





Total Depth = 15.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet bgs. 3. PID = photoionization detector. 4. ppm = parts per million.

Borehole Completion Details

0 to 15.0 feet bgs: 2.25-inch-diameter borehole.

Reconnaissance Well Completion Details

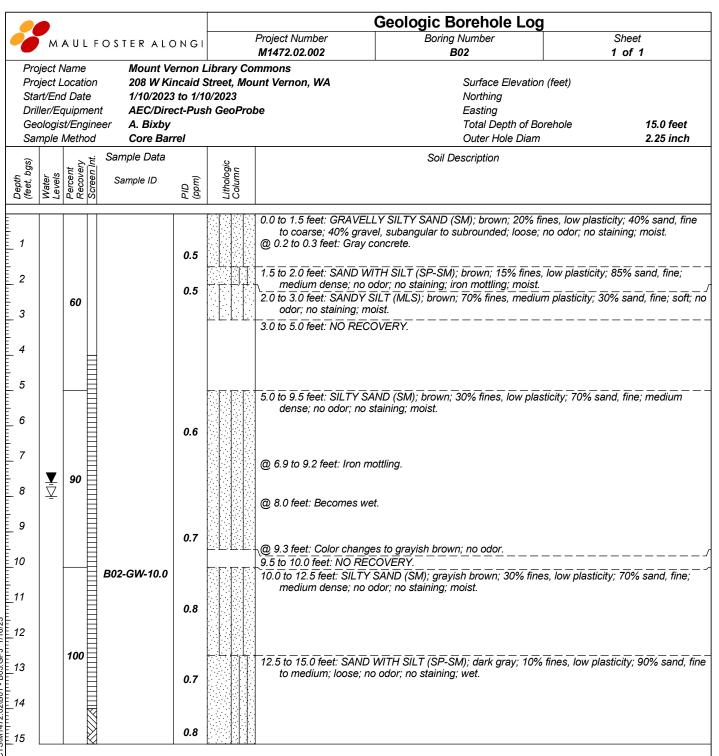
3.0 to 13.0 feet bgs: Temporary polyvinyl chloride slotted screen.

Borehole Abandonment Details

0 to 13.0 feet bgs: Bentonite chips hydrated with potable water.

13.0 to 15.0 feet bgs: Slough.

🛂 Water level at approximately 8.5 feet bgs at time of drilling. 財 Water level at 6.25 feet bgs at time of sampling on 1/10/2023.



Total Depth = 15.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet bgs. 3. PID = photoionization detector. 4. ppm = parts per million.

Borehole Completion Details

0 to 15.0 feet bgs: 2.25-inch-diameter borehole.

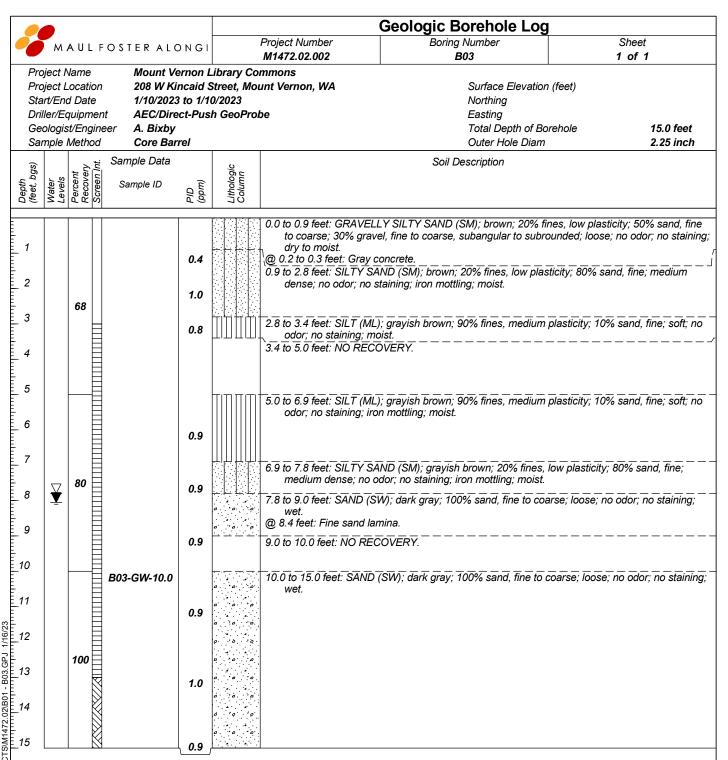
Reconnaissance Well Completion Details

4.0 to 14.0 feet bgs: Temporary polyvinyl chloride slotted screen.

Borehole Abandonment Details

0 to 14.0 feet bgs: Bentonite chips hydrated with potable water.

14.0 to 15.0 feet bgs: Slough.



Total Depth = 15.0 feet bgs

NOTES:

1. bgs = below ground surface. 2. Depths are relative to feet bgs. 3. PID = photoionization detector. 4. ppm = parts per million.

Borehole Completion Details

0 to 15.0 feet bgs: 2.25-inch-diameter borehole.

Reconnaissance Well Completion Details

3.0 to 13.0 feet bgs: Temporary polyvinyl chloride slotted screen.

Borehole Abandonment Details

0 to 13.0 feet bgs: Bentonite chips hydrated with potable water.

13.0 to 15.0 feet bgs: Slough.

ATTACHMENT F

WATER FIELD SAMPLING DATA SHEETS



Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Lydig Construction	Sample Location	B01
Project #	M1472.02.002	Sampler	A. Bixby
Project Name	Mount Vernon Library Commons	Sampling Date	1/10/2023
Sampling Event	1,200 Gallon UST	Sample Name	B01-GW-9.5
Sub Area		Sample Depth	9.5
FSDS QA:	A. Bixby 1/15/2023	Easting	Northing TOC

Hydrology/Level Measurements

					(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Pore Volume
1/10/2023	10:50	11.65		6.25		5.4	0.12

 $(0.75" = 0.023 \; gal/ft) \; (1" = 0.041 \; gal/ft) \; (1.5" = 0.092 \; gal/ft) \; (2" = 0.163 \; gal/ft) \; (3" = 0.367 \; gal/ft) \; (4" = 0.653 \; gal/ft) \; (6" = 1.469 \; gal/ft) \; (8" = 2.611 \; gal/ft) \;$

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pН	Temp (C)	E Cond (uS/cm)	DO (mg/L)	ORP	Turbidity
(2) Peristaltic Pump	10:18:00 AM	1	0.2						924
	12:00:00 PM	2.2	0.2	6.83	13.4	570		31	135
	12:03:00 PM	2.3	0.2	6.35	13.4	570		38	78.6
	12:06:00 PM	2.4	0.2	6.35	13.3	570		40	68.3
Final Field Parameters	12:09:00 PM	2.5	0.2	6.29	13.3	580		40	58.9

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Initially turbid and brown, then clear; colorless; no odor; no sheen.

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(2) Peristaltic Pump	Groundwater	12:10:00 PM	VOA-Glass	3	No
			Amber Glass	2	No
			White Poly		
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	5	

General	Sampling	g Comments
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Began purging at 10:52.			

S	gnatur	e		
\sim	Silacai	_		

Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Lydig Construction	Sample Location	B02
Project #	M1472.02.002	Sampler	A. Bixby
Project Name	Mount Vernon Library Commons	Sampling Date	1/10/2023
Sampling Event	1,200 Gallon UST	Sample Name	B02-GW-10.0
Sub Area		Sample Depth	10
FSDS QA:	A. Bixby 1/15/2023	Easting	Northing TOC

Hydrology/Level Measurements

Date Time DT-Bottom DT-Product DT-Water DTP-DTW DTB-DTW Pore Volume 1/10/2023 12:50 13.3 7.6 5.7 0.13						(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
1/10/2023 12:50 13.3 7.6 5.7 0.13	Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Pore Volume
	1/10/2023	12:50	144		7.6		5.7	0.13

 $(0.75" = 0.023 \; gal/ft) \; (1" = 0.041 \; gal/ft) \; (1.5" = 0.092 \; gal/ft) \; (2" = 0.163 \; gal/ft) \; (3" = 0.367 \; gal/ft) \; (4" = 0.653 \; gal/ft) \; (6" = 1.469 \; gal/ft) \; (8" = 2.611 \; gal/ft) \;$

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pН	Temp (C)	E Cond (uS/cm)	DO (mg/L)	ORP	Turbidity
(2) Peristaltic Pump	2:10:00 PM	3.2	0.2	6.45	13.4	630		31	58.5
	2:13:00 PM	3.3	0.2	6.45	13.6	630		31	70.6
	2:16:00 PM	3.4	0.2	6.45	13.7	640		32	70.3
Final Field Parameters	2:19:00 PM	3.5	0.2	6.45	13.7	640		32	55.2

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Initially turbid and brown, then clear; colorless; no odor; no sheen.

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(2) Peristaltic Pump	Groundwater	2:40:00 PM	VOA-Glass	3	No
			Amber Glass	2	No
			White Poly		
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	5	

General Sampling Comments	began purging at 12.33.

Sig	3	nature

Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Lydig Construction	Sample Location	B03
Project #	M1472.02.002	Sampler	A. Bixby
Project Name	Mount Vernon Library Commons	Sampling Date	1/10/2023
Sampling Event	1,200 Gallon UST	Sample Name	B02-GW-10.0
Sub Area		Sample Depth	10
FSDS QA:	A. Bixby 1/15/2023	Easting	Northing TOC

Hydrology/Level Measurements

					(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Pore Volume
1/10/2023	12:35	12.1		8.05		4.05	0.09

 $(0.75" = 0.023 \; gal/ft) \; (1" = 0.041 \; gal/ft) \; (1.5" = 0.092 \; gal/ft) \; (2" = 0.163 \; gal/ft) \; (3" = 0.367 \; gal/ft) \; (4" = 0.653 \; gal/ft) \; (6" = 1.469 \; gal/ft) \; (8" = 2.611 \; gal/ft) \;$

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pН	Temp (C)	E Cond (uS/cm)	DO (mg/L)	ORP	Turbidity
(2) Peristaltic Pump	1:40:00 PM	2.5	0.2	6.19	12.6	440		46	49.2
	1:43:00 PM	2.6	0.2	6.17	12.6	440		47	36.6
	1:46:00 PM	2.7	0.2	6.16	12.6	430		47	30
Final Field Parameters	1:49:00 PM	2.8	0.2	6.15	12.6	430		48	29.5

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Initially turbid and brown, then clear; colorless; no odor; no sheen.

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(2) Peristaltic Pump	Groundwater	2:00:00 PM	VOA-Glass	3	No
			Amber Glass	2	No
			White Poly		
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	5	

General	Samp	ling	Comments
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Began purging at 12:40.			

Sig	3	nature

ATTACHMENT G

LABORATORY REPORTS AND CHROMATOGRAMS



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 1, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the amended results from the testing of material submitted on January 5, 2023 from the Mount Vernon Library Commons M1472.02.002, F&BI 301034 project. The case narrative was expanded.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0112R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 12, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the results from the testing of material submitted on January 5, 2023 from the Mount Vernon Library Commons M1472.02.002, F&BI 301034 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0112R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 5, 2023 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mount Vernon Library Commons M1472.02.002, F&BI 301034 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301034 -01	T3BASE01-SS-9.0
301034 -02	T3DUP-SS-9.0
301034 -03	PILE06-SS-1.0
301034 -04	PILE07-SS-2.0
301034 -05	PILE08-SS-1.5
301034 -06	TRIP BLANK 01

The NWTPH-Dx chromatograms were reviewed to determine the possible presence of gasoline. A chromatographic pattern indicative of a low boiling product, such as gasoline, was not observed.

Selenium in the 6020B matrix spike and matrix spike duplicate did not meet the acceptance criteria. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix effect.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Date Analyzed: 01/05/23

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR PERCENT MOISTURE USING ASTM D2216-98

Sample ID Laboratory ID	% Moisture
T3BASE01-SS-9.0 301034-01	16
T3DUP-SS-9.0 301034-02	17
PILE06-SS-1.0 301034-03	27
PILE07-SS-2.0 301034-04	21
PILE08-SS-1.5 301034-05	22

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Date Analyzed: 01/05/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
T3BASE01-SS-9.0 301034-01	ND	D	ND	ip
T3DUP-SS-9.0 301034-02	ND	D	ND	ip
Method Blank	ND	ND	ND	102

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Date Analyzed: 01/06/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
PILE06-SS-1.0 301034-03	< 0.02	< 0.02	0.043	<0.06	<5	86
PILE07-SS-2.0 301034-04	< 0.02	0.11	1.7	2.2	210	ip
PILE08-SS-1.5 301034-05	< 0.02	< 0.02	0.74	1.2	150	110
Method Blank	< 0.02	< 0.02	< 0.02	<0.06	<5	92

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

Date Extracted: 01/09/23 Date Analyzed: 01/10/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) Limit (50-150)
TRIP BLANK 01 301034-06	<1	<1	<1	<3	126
Method Blank	<1	<1	<1	<3	119

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Date Analyzed: 01/05/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25} ext{)}}$	$\frac{\text{Motor Oil Range}}{(\text{C}_{25}\text{-C}_{36})}$	Surrogate (% Recovery) (Limit 50-150)
T3BASE01-SS-9.0 301034-01	5,600	<250	116
T3DUP-SS-9.0 301034-02	8,900	<250	127
PILE06-SS-1.0 301034-03	1,500	<250	109
PILE07-SS-2.0 301034-04	8,600	<250	124
PILE08-SS-1.5 301034-05	16,000	<250	141
Method Blank 03-108 MB	<50	<250	107

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	PILE06-SS-1.0	Client:	Maul Foster Alongi
------------	---------------	---------	--------------------

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

Arsenic <1 Barium 49.1 Cadmium <1 Chromium 21.3 Lead 1.73Mercury <1 Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: PILE07-SS-2.0 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

 Barium
 27.0

 Cadmium
 <1</td>

 Chromium
 11.7

 Lead
 1.59

 Mercury
 <1</td>

Analyte:

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: PILE07-SS-2.0 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

 Date Extracted:
 01/05/23
 Lab ID:
 301034-04

 Date Analyzed:
 01/06/23
 Data File:
 301034-04.057

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1 Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	PILE08-SS-1.5	Client:	Maul Foster Alongi
Client ID:	PILE08-SS-1.5	Client:	Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

 Date Extracted:
 01/05/23
 Lab ID:
 301034-05

 Date Analyzed:
 01/05/23
 Data File:
 301034-05.141

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

 Barium
 61.8

 Cadmium
 <1</td>

 Chromium
 19.7

 Lead
 3.19

 Mercury
 <1</td>

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: PILE08-SS-1.5 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

 Date Extracted:
 01/05/23
 Lab ID:
 301034-05

 Date Analyzed:
 01/06/23
 Data File:
 301034-05.058

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 3.15
Selenium <1
Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Maul Foster Alongi

Date Received: NA Project: M1472.02.002, F&BI 301034

Date Extracted:01/05/23Lab ID:I3-04 mb2Date Analyzed:01/05/23Data File:I3-04 mb2.116Matrix:SoilInstrument:ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$

Arsenic <1 Barium <1 Cadmium <1 Chromium <2 Lead <1 Mercury <1 Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: T3BASE01-SS-9.0 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Lab ID: Date Extracted: 01/06/23 301034-01 Date Analyzed: 01/06/23 Data File: 010610.DMatrix: Soil Instrument: GCMS4

Units: mg/kg (ppm) Dry Weight Operator: lm

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	112	89	112
4-Bromofluorobenzene	108	84	115

Concentration Compounds: mg/kg (ppm) < 0.03

Benzene Toluene < 0.05 Ethylbenzene < 0.05 m,p-Xylene 0.12o-Xylene < 0.05

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: T3DUP-SS-9.0 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Lab ID: Date Extracted: 01/06/23 301034-02 Date Analyzed: 01/06/23 Data File: 010611.DMatrix: Soil Instrument: GCMS4

Units: mg/kg (ppm) Dry Weight Operator: lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	111	89	112
4-Bromofluorobenzene	101	84	115

Concentration Compounds: mg/kg (ppm)

Benzene < 0.03 Toluene < 0.05 Ethylbenzene < 0.05 m,p-Xylene 0.10 o-Xylene < 0.05

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472.02.002, F&BI 301034

01/06/23 Lab ID: Date Extracted: 03-054 mbDate Analyzed: 01/06/23 Data File: $010605.\mathrm{D}$ Matrix: Soil Instrument: GCMS4 Units: mg/kg (ppm) Dry Weight Operator: lm

Upper Lower Surrogates: % Recovery: Limit: Limit: 1,2-Dichloroethane-d4 100 90 109 Toluene-d8 110 89 112 4-Bromofluorobenzene 96 84 115

Concentration
Compounds: mg/kg (ppm)

 Benzene
 <0.03</td>

 Toluene
 <0.05</td>

 Ethylbenzene
 <0.05</td>

 m,p-Xylene
 <0.1</td>

 o-Xylene
 <0.05</td>

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

	Client Sample ID:	T3BASE01-SS-9.0	Client:	Maul Foster Alongi
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Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Lab ID: 301034-01 1/5 Date Extracted: 01/06/23 Date Analyzed: 01/06/23 Data File: 010607.DMatrix: Soil Instrument: GCMS12

mg/kg (ppm) Dry Weight Units: Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	99	16	137
Terphenyl-d14	95	31	167

F	
Compounds:	Concentration mg/kg (ppm)
Naphthalene	2.9
Benz(a)anthracene	< 0.01
Chrysene	0.025
Benzo(a)pyrene	< 0.01
Benzo(b)fluoranthene	< 0.01
Benzo(k)fluoranthene	< 0.01
Indeno(1,2,3-cd)pyrene	< 0.01
Dibenz(a,h)anthracene	< 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: T3BASE01-SS-9.0 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Lab ID: Date Extracted: 01/06/23 301034-01 1/50 Date Analyzed: 01/06/23 Data File: 010618.DMatrix: Soil Instrument: GCMS9 Units: mg/kg (ppm) Dry Weight Operator: VM

Concentration

Compounds: mg/kg (ppm)

2-Methylnaphthalene 18 1-Methylnaphthalene 12

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	T3DUP-SS-9.0	Client:	Maul Foster Alongi
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Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Lab ID: Date Extracted: 301034-02 1/25 01/06/23 Date Analyzed: 01/06/23 Data File: 010608.DMatrix: Soil Instrument: GCMS12

mg/kg (ppm) Dry Weight Units: Operator: VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
Nitrobenzene-d5	104 d	16	137
Terphenyl-d14	91 d	31	167

Terphenyl-d14	91 d		
Compounds:	Concentration mg/kg (ppm)		
Naphthalene	5.5		
2-Methylnaphthalene	27		
1-Methylnaphthalene	18		
Benz(a)anthracene	< 0.05		
Chrysene	< 0.05		
Benzo(a)pyrene	< 0.05		
Benzo(b)fluoranthene	< 0.05		
Benzo(k)fluoranthene	< 0.05		
Indeno(1,2,3-cd)pyrene	< 0.05		
Dibenz(a,h)anthracene	< 0.05		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: PILE06-SS-1.0 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Lab ID: 301034-03 1/5 Date Analyzed: 01/06/23 Data File: 010610.DMatrix: Soil Instrument: GCMS9 Units: mg/kg (ppm) Dry Weight Operator: VM

onits. mg/kg (ppm) Dry Weight Operator: VM

Concentration Compounds: mg/kg (ppm) Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: PILE07-SS-2.0 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Lab ID: 301034-04 1/5 Date Analyzed: 01/06/23 Data File: 010613.DMatrix: Soil Instrument: GCMS12

Units: mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 167 Lower Surrogates: Terphenyl-d14 % Recovery: Limit: 95 31

< 0.01

Concentration Compounds: mg/kg (ppm) < 0.01 Benz(a)anthracene Chrysene 0.029 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01

Dibenz(a,h)anthracene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: PILE08-SS-1.5 Client: Maul Foster Alongi

Date Received: 01/05/23 Project: M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Lab ID: 301034-05 1/5 Date Analyzed: 01/06/23 Data File: 010614.DMatrix: Soil Instrument: GCMS12

Units: mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 167 Lower Surrogates: Terphenyl-d14 % Recovery: Limit: 89 31

< 0.01

Concentration Compounds: mg/kg (ppm) < 0.01 Benz(a)anthracene Chrysene 0.029 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01

Dibenz(a,h)anthracene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472.02.002, F&BI 301034

Date Extracted: 01/06/23 Lab ID: 03-115 mb2 1/5 Date Analyzed: 01/06/23 Data File: 010606.DSoil Instrument: GCMS12 Matrix: VM

Units: mg/kg (ppm) Dry Weight Operator:

Upper Lower Limit: Surrogates: % Recovery: Limit: Nitrobenzene-d5 89 16 Terphenyl-d14 107 31 167

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472.02.002, F&BI 301034

Date Extracted: 01/05/23 Lab ID: 03-115 mb 1/5
Date Analyzed: 01/06/23 Data File: 010608.D

Matrix: Soil Instrument: GCMS9

Unite: mg/kg (npm) Dwy Weight Operator: VM

Units: mg/kg (ppm) Dry Weight Operator: VM

Concentration Compounds: mg/kg (ppm) Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 301003-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	82	66-121
Toluene	mg/kg (ppm)	0.5	88	72 - 128
Ethylbenzene	mg/kg (ppm)	0.5	88	69-132
Xylenes	mg/kg (ppm)	1.5	87	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 301072-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/L (ppb)	50	112	70-130
Toluene	ug/L (ppb)	50	106	70-130
Ethylbenzene	ug/L (ppb)	50	102	70-130
Xylenes	ug/L (ppb)	150	100	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 301030-01 (Matrix Spike)

			(Wet wt)	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (nnm)	5.000	<50	108	106	70-130	2

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	112	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 212411-01 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	87	79	75-125	10
Barium	mg/kg (ppm)	50	56.4	102	96	75 - 125	6
Cadmium	mg/kg (ppm)	10	<5	89	90	75 - 125	1
Chromium	mg/kg (ppm)	50	19.3	96	100	75 - 125	4
Lead	mg/kg (ppm)	50	128	116	108	75 - 125	7
Mercury	mg/kg (ppm	5	<5	83	84	75 - 125	1
Selenium	mg/kg (ppm)	5	<5	73 vo	69 vo	75 - 125	6
Silver	mg/kg (ppm)	10	<5	90	93	75 - 125	3

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	89	80-120
Barium	mg/kg (ppm)	50	102	80-120
Cadmium	mg/kg (ppm)	10	98	80-120
Chromium	mg/kg (ppm)	50	90	80-120
Lead	mg/kg (ppm)	50	106	80-120
Mercury	mg/kg (ppm)	5	95	80-120
Selenium	mg/kg (ppm)	5	88	80-120
Silver	mg/kg (ppm)	10	105	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 301039-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	2	< 0.03	59	71	29-129	18
Toluene	mg/kg (ppm)	2	< 0.05	47	59	35-130	23 vo
Ethylbenzene	mg/kg (ppm)	2	0.47	37 b	48 b	32 - 137	26 b
m,p-Xylene	mg/kg (ppm)	2	5.0	0 b	15	34-136	nm
o-Xylene	mg/kg (ppm)	2	1.8	19 b	32 b	33-134	51 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	2	90	71-118
Toluene	mg/kg (ppm)	2	77	66-126
Ethylbenzene	mg/kg (ppm)	2	78	64-123
m,p-Xylene	mg/kg (ppm)	2	81	78-122
o-Xylene	mg/kg (ppm)	2	81	77 - 124

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 301034-03 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	0.069	88	92	28-125	4
2-Methylnaphthalene	mg/kg (ppm)	0.83	0.53	141 b	150 b	10-192	6 b
1-Methylnaphthalene	mg/kg (ppm)	0.83	0.51	136 b	149 b	10-163	9 b
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	94	93	50-150	1
Chrysene	mg/kg (ppm)	0.83	< 0.01	94	94	50-150	0
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	88	91	50-150	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	88	50-150	5
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	88	50-150	5
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	101	94	41-134	7
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	95	90	44-130	5

Analyte	Reporting Units	Spike Level	Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	84	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	96	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	100	66-107
Benz(a)anthracene	mg/kg (ppm)	0.83	98	70-130
Chrysene	mg/kg (ppm)	0.83	105	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	94	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	93	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	94	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	91	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	89	67-128

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/05/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301034

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 301034-03 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	94	93	50-150	1
Chrysene	mg/kg (ppm)	0.83	< 0.01	94	94	50-150	0
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	88	91	50-150	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	88	50-150	5
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	88	50-150	5
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	101	94	41-134	7
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	95	90	44-130	5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benz(a)anthracene Chrysene	mg/kg (ppm) mg/kg (ppm) mg/kg (ppm)	0.83 0.83 0.83	98 105	70-130 70-130
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	mg/kg (ppm) mg/kg (ppm)	0.83 0.83	94 93 94	68-120 69-125 70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm) mg/kg (ppm)	0.83 0.83	91 89	67-129 67-128

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Report To Amenda Bixby

301034

Address 1329 N State St. Ste 361

City, State, ZIP Bellingham, WA 98225

Company Maul Foster & Alorgi

Phone (36)635-8371 Email abixby @ way Project specific RLs? - Yes / No PROJECT NAME SAMPLERS (signature) REMARKS Mount Verion Library Commons MI472.02.002 mavifoster, com accounting@ INVOICE TO

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						TRIPBLANKOI	PILEO 8-55-1.5	PILE07-55-2.0	PILE06-55-10	T3DUP-SS-9.0	T38ASE01-SS-9.0	Sample ID	
SIG						06	0<	04	03	02	01 A-E	Lab ID	
SIGNATURE						1/4/23	1/4/23	114/23	1/4/23	1/4/23	1/4/23	Date Sampled	
						ZA	1420	1410	1460	1640	1040	Time Sampled	
						٤	S	S	S	S	S	Sample Type	
PRINT NAME	1					2	S	a	5	5	8	# of Jars	
							X	×	X	Ø Ø	\bigotimes	NWTPH-Dx	
AM							X	×	\times	0	0	NWTPH-Gx	
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Friedman & Bruya, Inc. Ph. (206) 285-8282

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Rush charges authorized by:

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File :P:\Proc_GC14\01-05-23\010531.D

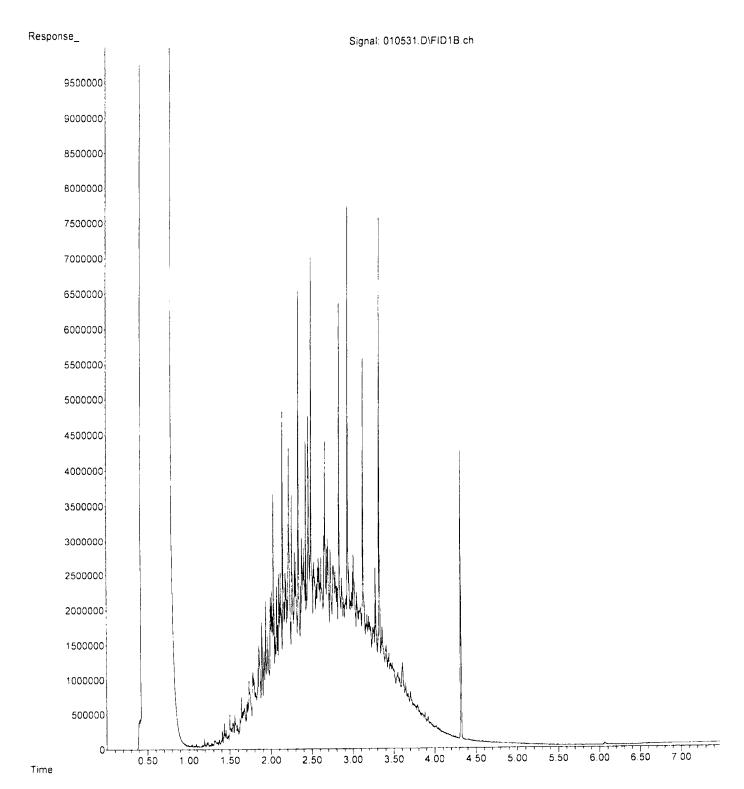
Operator : TL

Acquired : 05 Jan 2023 04:11 pm using AcqMethod DX.M

Instrument : GC14
Sample Name: 301034-01

Misc Info : ERR

Vial Number: 28



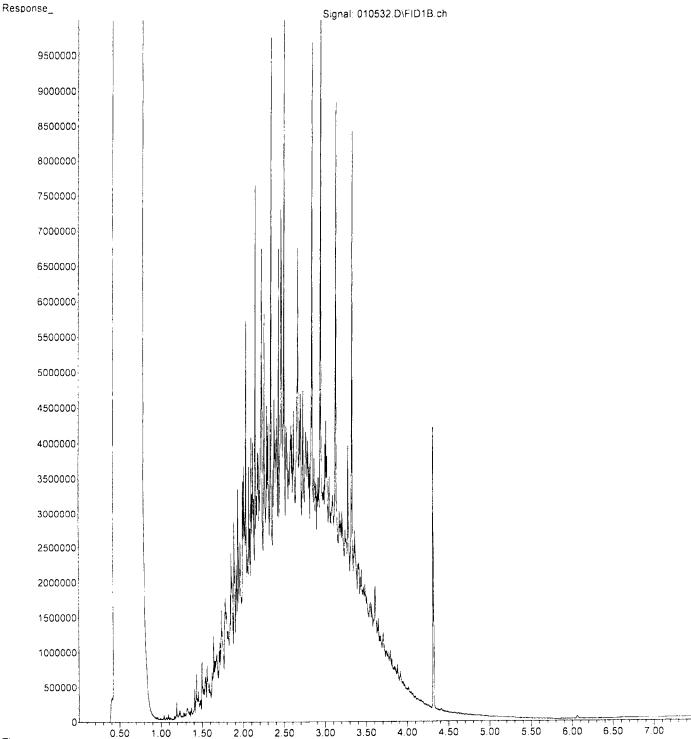
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Operator : TL

Acquired : 05 Jan 2023 04:23 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 301034-02

Misc Info : Vial Number: 29 ERR



Time

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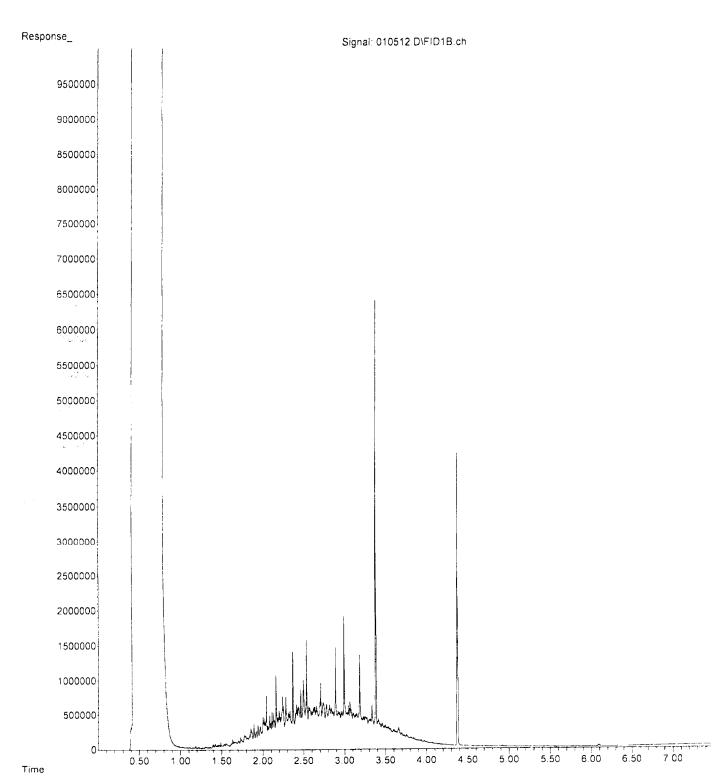
Operator : TL

Acquired : 05 Jan 2023 10:45 am using AcqMethod DX.M

Instrument : GC14
Sample Name: 301034-03

Misc Info : ERR

Vial Number: 14



File :P:\Proc_GC14\01-05-23\010513.D

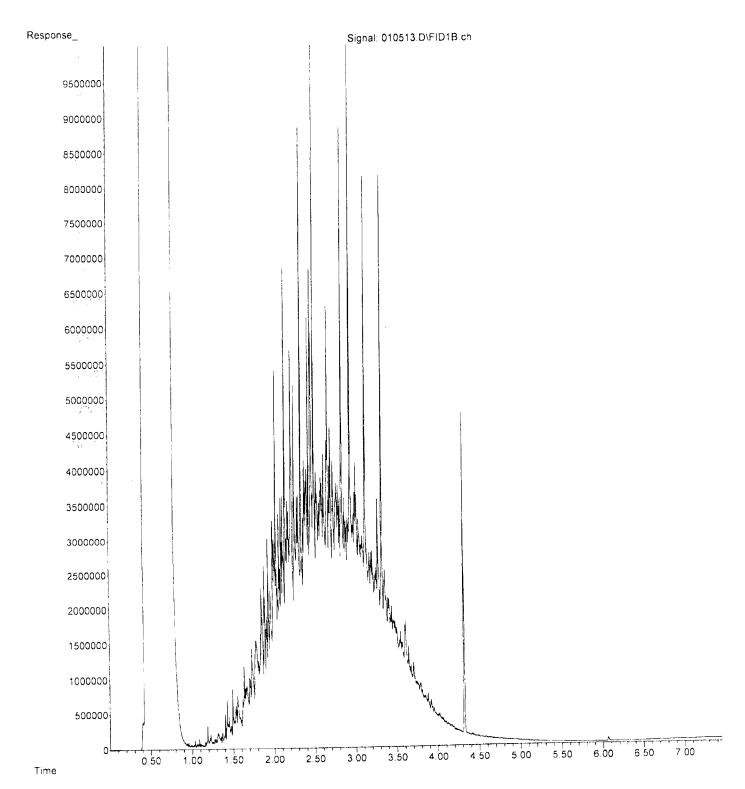
Operator : TL

Acquired : 05 Jan 2023 10:57 am using AcqMethod DX.M

Instrument : GC14 Sample Name: 301034-04

Misc Info : ERR

Vial Number: 15



File

:P:\Proc_GC14\01-05-23\010514.D

Operator

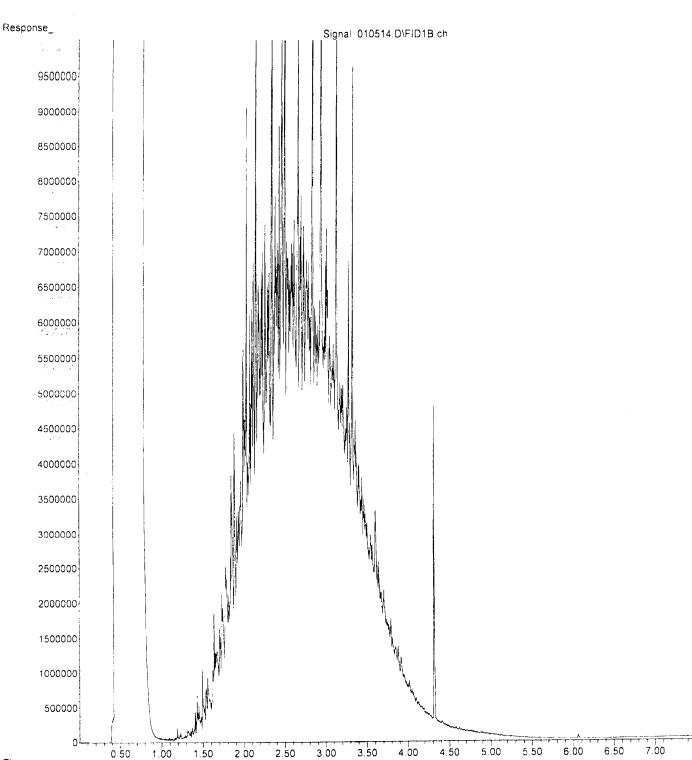
: TL

Acquired : 05 Jan 2023 11:09 am using AcqMethod DX.M

Instrument : GC14

Sample Name: 301034-05

Misc Info : Vial Number: 16 ERR



Time

File :P:\Proc_GC14\01-05-23\010504.D

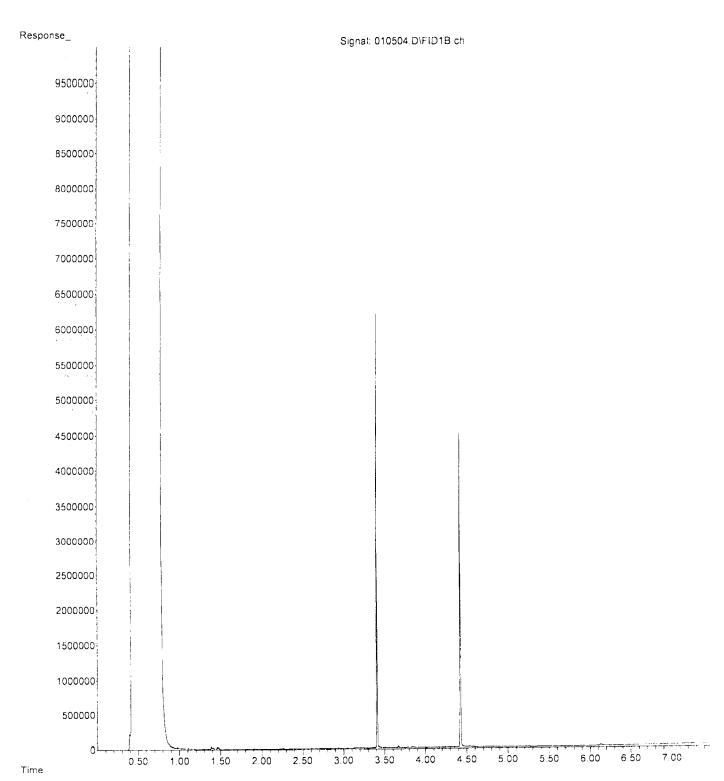
Operator : TL

Acquired : 05 Jan 2023 08:40 am using AcqMethod DX.M

Instrument : GC14
Sample Name: 03-108 mb

Misc Info : ERR

Vial Number: 6



File :P:\Proc_GC14\01-05-23\010530.D

Operator : TL

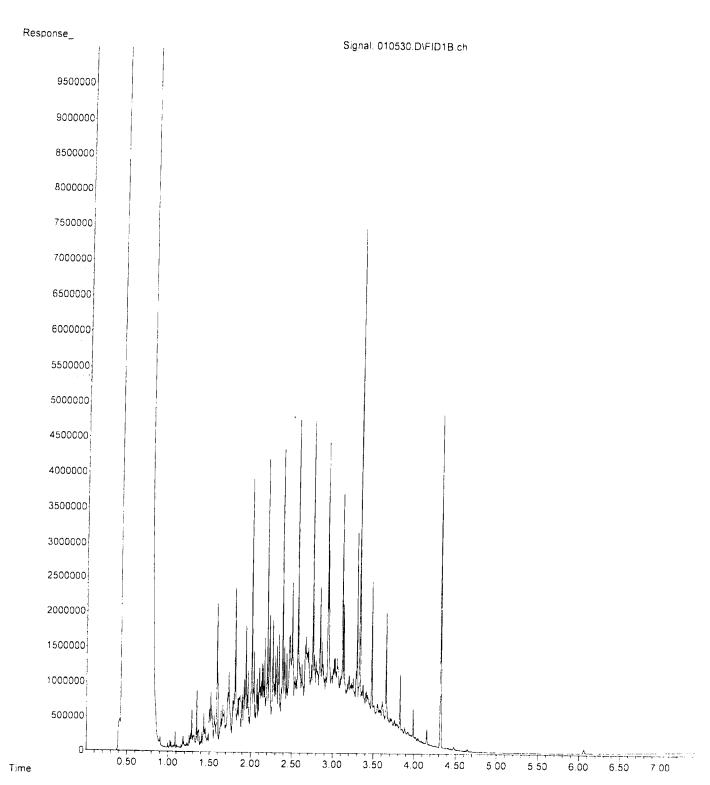
Acquired : 05 Jan 2023 03:59 pm using AcqMethod DX.M

Instrument : GC14

Sample Name: 500 Dx 67-143B

Misc Info : ERR

Vial Number: 3



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 11, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the results from the testing of material submitted on January 7, 2023 from the Mount Vernon Library Commons M1472 02 002, F&BI 301083 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0111R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 7, 2023 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mount Vernon Library Commons M1472 02 002, F&BI 301083 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301083 -01	T3SW03-SS-8.0
301083 -02	T3SW04-SS-8.0
301083 -03	T3SW05-SS-8.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/23 Date Received: 01/07/23

Project: Mount Vernon Library Commons M1472 02 002, F&BI 301083

Date Extracted: 01/07/23 Date Analyzed: 01/07/23

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR PERCENT MOISTURE USING ASTM D2216-98

Sample ID Laboratory ID	% Moisture
T3SW03-SS-8.0 301083-01	21
T3SW04-SS-8.0 301083-02	25
T3SW05-SS-8.0	19

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/23 Date Received: 01/07/23

Project: Mount Vernon Library Commons M1472 02 002, F&BI 301083

Date Extracted: 01/09/23 Date Analyzed: 01/09/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
T3SW03-SS-8.0 301083-01	ND	ND	ND	109
T3SW04-SS-8.0 301083-02	ND	ND	ND	107
T3SW05-SS-8.0 301083-03	ND	ND	ND	109
Method Blank 03-124 MB	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/23 Date Received: 01/07/23

Project: Mount Vernon Library Commons M1472 02 002, F&BI 301083

Date Extracted: 01/09/23 Date Analyzed: 01/10/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) (Limit 50-132)
T3SW03-SS-8.0 301083-01	< 0.02	< 0.02	< 0.02	<0.06	87
T3SW04-SS-8.0 301083-02	< 0.02	< 0.02	< 0.02	< 0.06	78
T3SW05-SS-8.0 301083-03	<0.02	< 0.02	< 0.02	<0.06	91
Method Blank	< 0.02	< 0.02	< 0.02	< 0.06	90

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/23 Date Received: 01/07/23

Project: Mount Vernon Library Commons M1472 02 002, F&BI 301083

Date Extracted: 01/09/23 Date Analyzed: 01/09/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{\text{(C}_{10}\text{-C}_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 50-150)
T3SW03-SS-8.0 301083-01	<50	<250	104
T3SW04-SS-8.0 301083-02	<50	<250	104
T3SW05-SS-8.0 301083-03	<50	<250	102
Method Blank 03-119 MB	<50	<250	104

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Date Received: 01/07/23 Project: M1472 02 002, F&BI 301083

Lab ID: Date Extracted: 01/09/23 301083-01 1/5 Date Analyzed: 01/09/23 Data File: 010911.DMatrix: Soil Instrument: GCMS9 Units: mg/kg (ppm) Dry Weight Operator: VM

Surrogates: % Recovery: Limit: Limit: Nitrobongono d5 (55)

 Surrogates:
 % Recovery:
 Limit:
 Limit:

 Nitrobenzene-d5
 65
 10
 198

 Terphenyl-d14
 95
 50
 124

< 0.01

< 0.01

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01

Indeno(1,2,3-cd)pyrene

Dibenz(a,h)anthracene

6

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: T3SW04-SS-8.0 Client: Maul Foster Alongi

Date Received: 01/07/23 Project: M1472 02 002, F&BI 301083

Date Extracted: 01/09/23 Lab ID: 301083-02 1/5 Date Analyzed: 01/09/23 Data File: 010912.DSoil Instrument: GCMS9 Matrix:

Units: mg/kg (ppm) Dry Weight Operator: VM

Lower Upper Surrogates: % Recovery: Limit: Limit: Nitrobenzene-d5 $\begin{array}{c} 68 \\ 97 \end{array}$ 198 10 Terphenyl-d14 50 124

< 0.01

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01

Dibenz(a,h)anthracene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: T3SW05-SS-8.0 Client: Maul Foster Alongi

Date Received: 01/07/23 Project: M1472 02 002, F&BI 301083

Date Extracted: 01/09/23 Lab ID: 301083-03 1/5 Date Analyzed: 01/09/23 Data File: 010913.DSoil Instrument: GCMS9 Matrix: Units: mg/kg (ppm) Dry Weight VMOperator:

Lower Upper

 Surrogates:
 % Recovery:
 Limit:
 Limit:

 Nitrobenzene-d5
 65
 10
 198

 Terphenyl-d14
 94
 50
 124

Concentration Compounds: mg/kg (ppm)

Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472 02 002, F&BI 301083

Date Extracted: 01/09/23 Lab ID: 03-125 mb 1/5
Date Analyzed: 01/09/23 Data File: 010910.D
Matrix: Soil Instrument: GCMS9
Unite: mg/kg (npm) Dry Weight Operator: VM

Units: mg/kg (ppm) Dry Weight Operator: VM

< 0.01

< 0.01

< 0.01

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01

Benzo(k)fluoranthene

Indeno(1,2,3-cd)pyrene

Dibenz(a,h)anthracene

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/23 Date Received: 01/07/23

Project: Mount Vernon Library Commons M1472 02 002, F&BI 301083

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 301058-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	94	66-121
Toluene	mg/kg (ppm)	0.5	94	72 - 128
Ethylbenzene	mg/kg (ppm)	0.5	98	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/23 Date Received: 01/07/23

Project: Mount Vernon Library Commons M1472 02 002, F&BI 301083

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 301073-06 (Matrix Spike)

			(Wet wt)	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	110	108	70-130	2

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/23 Date Received: 01/07/23

Project: Mount Vernon Library Commons M1472 02 002, F&BI 301083

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 301083-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	< 0.01	77	74	28-125	4
2-Methylnaphthalene	mg/kg (ppm)	0.83	< 0.01	86	84	10-192	2
1-Methylnaphthalene	mg/kg (ppm)	0.83	< 0.01	88	87	10-163	1
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	94	93	50-150	1
Chrysene	mg/kg (ppm)	0.83	< 0.01	98	97	50-150	1
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	89	88	50-150	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	90	89	50-150	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	86	86	50-150	0
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	105	98	41-134	7
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	101	93	44-130	8

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	80	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	90	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	93	66-107
Benz(a)anthracene	mg/kg (ppm)	0.83	96	70-130
Chrysene	mg/kg (ppm)	0.83	102	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	89	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	88	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	89	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	97	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	95	67-128

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Company Maul Foster & Along Report To Amanda Bixbu City, State, ZIP Bollingham, WA 98225 Address 1329 N State St, Ste 301 Phone (360) 635-8371 Email abixby@powlfoster.com 0=hold 201083

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature) REMARKS PROJECT NAME X = analyze. Mount Vernen Library Commons accounting@ M1472.02.002 INVOICE TO P0#

01/07/18 68/F0/10 Rush charges authorized by: ☐ Standard Turnaround XRUSH See notes Page # _____ of ____
TURNAROUND TIME

☐ Dispose after 30 days ☐ Archive Samples

SAMPLE DISPOSAL

□ Other

masifesta, com

ANALYSES REQUESTED

Ph. (206) 285-8282	Seattle, WA 98119-2029	3012 16th Avenue West	Friedman & Bruya, Inc.								T35W05-55-80	T35 WO4-SS-B.O	135WC3-SS-8.0	Sample ID
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 12, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the results from the testing of material submitted on January 10, 2023 from the Mount Vernon Library Commons M1472.02.002, F&BI 301102 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0112R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 10, 2023 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mount Vernon Library Commons M1472.02.002 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301102 -01	T3SW06-SS-8.0
301102 -02	T3BASE02-SS-9.0
301102 -03	T3SW07-SS-8.0
301102 -04	T3SW08-SS-8.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/10/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301102

Date Extracted: 01/10/23 Date Analyzed: 01/10/23

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR PERCENT MOISTURE USING ASTM D2216-98

Sample ID Laboratory ID	<u>% Moisture</u>
T3SW06-SS-8.0 301102-01	24
T3BASE02-SS-9.0 301102-02	22
T3SW07-SS-8.0 301102-03	22
T3SW08-SS-8.0 301102-04	23

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/10/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301102

Date Extracted: 01/10/23 Date Analyzed: 01/10/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
T3SW06-SS-8.0 301102-01	ND	ND	ND	99
T3BASE02-SS-9.0 301102-02	ND	ND	ND	102
T3SW07-SS-8.0 301102-03	ND	ND	ND	101
T3SW08-SS-8.0 301102-04	ND	ND	ND	108
Method Blank	ND	ND	ND	105

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/10/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301102

Date Extracted: 01/10/23 Date Analyzed: 01/11/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) (Limit 50-150)
T3SW06-SS-8.0 301102-01	< 0.02	< 0.02	< 0.02	< 0.06	125
T3BASE02-SS-9.0 301102-02	<0.02	< 0.02	< 0.02	<0.06	131
T3SW07-SS-8.0 301102-03	< 0.02	< 0.02	< 0.02	< 0.06	123
T3SW08-SS-8.0 301102-04	<0.02	<0.02	< 0.02	<0.06	123
Method Blank 03-0015 MB	< 0.02	< 0.02	<0.02	<0.06	85

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/10/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301102

Date Extracted: 01/10/23 Date Analyzed: 01/10/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(\text{C}_{10}\text{-C}_{25})}$	$\frac{ ext{Motor Oil Range}}{ ext{(C}_{25} ext{-C}_{36} ext{)}}$	Surrogate (% Recovery) (Limit 50-150)
T3SW06-SS-8.0 301102-01	<50	<250	105
T3BASE02-SS-9.0 301102-02	<50	<250	104
T3SW07-SS-8.0 301102-03	<50	<250	104
T3SW08-SS-8.0 301102-04	<50	<250	106
Method Blank 03-126 MB2	<50	<250	104

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	T3SW06-SS-8.0	Client:	Maul Foster Alongi
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Date Received: M1472.02.002, F&BI 30110201/10/23 Project:

Lab ID: Date Extracted: 01/10/23 301102-01 1/5 Date Analyzed: 01/10/23 Data File: 011006.DMatrix: Soil Instrument: GCMS12

mg/kg (ppm) Dry Weight Units: Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Bullogates.	70 Recovery.	L/1111110.	Lillill.
Nitrobenzene-d5	71	16	137
Terphenyl-d14	93	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	< 0.01
2-Methylnaphthalene	< 0.01
1-Methylnaphthalene	< 0.01
Benz(a)anthracene	< 0.01
Chrysene	< 0.01
Benzo(a)pyrene	< 0.01
Benzo(b)fluoranthene	< 0.01
Benzo(k)fluoranthene	< 0.01
Indeno(1,2,3-cd)pyrene	< 0.01
Dibenz(a,h)anthracene	< 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Date Received: 01/10/23 Project: M1472.02.002, F&BI 301102

Lab ID: Date Extracted: 01/10/23 301102-02 1/5 Date Analyzed: 01/10/23 Data File: 011007.DMatrix: Soil Instrument: GCMS12 Units: mg/kg (ppm) Dry Weight Operator: VM

< 0.01

Terphenyl-d14 Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01

Dibenz(a,h)anthracene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

	Client Sample ID:	T3SW07-SS-8.0	Client:	Maul Foster Alongi
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Date Received: 01/10/23 Project: M1472.02.002, F&BI 301102

Lab ID: Date Extracted: 01/10/23 301102-03 1/5 Date Analyzed: 01/10/23 Data File: 011008.DMatrix: GCMS12 Soil Instrument: mg/kg (ppm) Dry Weight Units: Operator: VM

Inits: mg/kg (ppm) Dry weight Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	62	16	137
Terphenyl-d14	92	31	167

Compounds:	Concentration mg/kg (ppm)
Naphthalene	< 0.01
2-Methylnaphthalene	< 0.01
1-Methylnaphthalene	< 0.01
Benz(a)anthracene	< 0.01
Chrysene	< 0.01
Benzo(a)pyrene	< 0.01
Benzo(b)fluoranthene	< 0.01
Benzo(k)fluoranthene	< 0.01
Indeno(1,2,3-cd)pyrene	< 0.01
Dibenz(a,h)anthracene	< 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: T3SW08-SS-8.0 Client: Maul Foster Alongi

Date Received: 01/10/23 Project: M1472.02.002, F&BI 301102

Date Extracted: 01/10/23 Lab ID: 301102-04 1/5 Date Analyzed: 01/10/23 Data File: 011009.DMatrix: Soil Instrument: GCMS12 Units: mg/kg (ppm) Dry Weight VMOperator:

I ower

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	49	16	137
Terphenyl-d14	90	31	167

< 0.01

< 0.01

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01

Indeno(1,2,3-cd)pyrene

Dibenz(a,h)anthracene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472.02.002, F&BI 301102

01/10/23 Date Extracted: Lab ID: 03-125 mb2 1/5 Date Analyzed: 01/10/23 Data File: 011005.DSoil Instrument: GCMS12 Matrix: VM

Units: mg/kg (ppm) Dry Weight Operator:

Upper Lower Limit: Surrogates: % Recovery: Limit: Nitrobenzene-d5 85 16 Terphenyl-d14 107 31 167

Concentration Compounds: mg/kg (ppm) Naphthalene < 0.01 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01 Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/10/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301102

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 301008-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	86	66-121
Toluene	mg/kg (ppm)	0.5	94	72 - 128
Ethylbenzene	mg/kg (ppm)	0.5	92	69-132
Xylenes	mg/kg (ppm)	1.5	93	69-131

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/10/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301102

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 301095-01 (Matrix Spike)

			(Wet wt)	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	116	116	70-130	0

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	118	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/10/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301102

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 301083-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	< 0.01	77	74	28-125	4
2-Methylnaphthalene	mg/kg (ppm)	0.83	< 0.01	86	84	10-192	2
1-Methylnaphthalene	mg/kg (ppm)	0.83	< 0.01	88	87	10-163	1
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	94	93	50-150	1
Chrysene	mg/kg (ppm)	0.83	< 0.01	98	97	50-150	1
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	89	88	50-150	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	90	89	50-150	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	86	86	50-150	0
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	105	98	41-134	7
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	101	93	44-130	8

Laboratory Code: Laboratory Control Sample 1/5

A1	Reporting	Spike	Percent Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Naphthalene	mg/kg (ppm)	0.83	80	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	90	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	93	66-107
Benz(a)anthracene	mg/kg (ppm)	0.83	96	70-130
Chrysene	mg/kg (ppm)	0.83	102	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	89	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	88	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	89	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	97	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	95	67-128

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. T3SW07-SS-8.0 133W08-SS-8.0 T3BASE02-55-9.0 T35W06-55-8.0 Phone 360-635-8371 Email abixby @maylfoster, com City, State, ZIP Bellingham, WA, 98225 Address 1329 N State St Ste 301 Company Maul Foster & Along, Inc 30102 Report To Amanda Bixbs Sample ID Received by: Relinquished by: Received by: Relinquished by: 2 03 02 <u>0</u> Lab ID A-E SIGNATURE 1/9/23 1/9/23 119/23 119123 Date Sampled 13:30 13:00 13:40 13:20 Sampled SAMPLE CHAIN OF CUSTODY Time REMARKS PROJECT NAME SAMPLERS (signifure) Mount Vernor Library Christian 1:05 50: 50:1 7.8 Sample Type ANHPHAN PRINT NAME S.A.L G# of Jars 5 G 5 × × 0 \times TPH-HCID Commons × X × TPH-Diesel 0 TPH-Gasoline X X X × BTEX by 8021B INVOICE TO accounting @ mailfaster.com ANALYSES REQUESTED M1472.02.002 VOCs by 8260C 01/10/23 A1/VS-A2 SVOCs by 8270D MFA PO# PAHs 8270D SIM

n-herane, MTBE,
EDB, EDC by 8260

cPAHs + naphthalene
by 8270

Total Lead by
6020 F86 Samples received a COMPANY 0 0 0 0 X Ŕ × B ☐ Dispose after 30 days ☐ Archive Samples Standard Turnaround RUSH 4hr HCD, 79hr other Rush charges authorized by: 0 0 0 0 TURNAROUND TIME SAMPLE DISPOSAL 1/9/23 01/10/23 DATE O= hold メックス Notes 09:12 5.3 8 TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 20, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the additional results from the testing of material submitted on January 11, 2023 from the Mount Vernon Library Commons M1472.02.002, F&BI 301138 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0120R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 11, 2022 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mount Vernon Library Commons M1472.02.002 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301138 -01	TRIP BLANK 02
301138 -02	B01-GW-9.5
301138 -03	BDUP-GW-9.5
301138 -04	B02-GW-10.0
301138 -05	B03-GW-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B01-GW-9.5 Client: Maul Foster Alongi

Date Received: 01/11/23 Project: M1472.02.002, F&BI 301138

Lab ID: Date Extracted: 01/11/23 301138-02 1/2 Date Analyzed: 01/11/23 Data File: 011119.DMatrix: Water Instrument: GCMS12 Units: ug/L (ppb) Operator: VM

Upper Limit: 173 Lower Surrogates: % Recovery: Limit: 82 Nitrobenzene-d5 11

Concentration

Compounds: ug/L (ppb)

< 0.4 Naphthalene 2-Methylnaphthalene < 0.4 1-Methylnaphthalene < 0.4

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: BDUP-GW-9.5 Client: Maul Foster Alongi

Date Received: 01/11/23 Project: M1472.02.002, F&BI 301138

Lab ID: Date Extracted: 01/11/23 301138-03 1/2 Date Analyzed: 01/11/23 Data File: 011120.DMatrix: Water Instrument: GCMS12 Units: ug/L (ppb) Operator: VM

Surrogates: % Recovery: Limit: Limit: Nitrobenzene-d5 81 11 173

Concentration Compounds: ug/L (ppb)

Naphthalene <0.4 2-Methylnaphthalene <0.4 1-Methylnaphthalene <0.4

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B02-GW-10.0 Client: Maul Foster Alongi

Date Received: 01/11/23 Project: M1472.02.002, F&BI 301138

Lab ID: Date Extracted: 01/11/23 301138-04 1/2 Date Analyzed: 01/11/23 Data File: 011121.DMatrix: Water Instrument: GCMS12 Units: ug/L (ppb) Operator: VM

Surrogates: % Recovery: Limit: Limit: Nitrobenzene-d5 81 11 173

Concentration
Compounds: ug/L (ppb)

Naphthalene <0.4 2-Methylnaphthalene <0.4 1-Methylnaphthalene <0.4

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B03-GW-10.0 Client: Maul Foster Alongi

Date Received: 01/11/23 Project: M1472.02.002, F&BI 301138

Lab ID: Date Extracted: 01/11/23 301138-05 1/2 Date Analyzed: 01/11/23 Data File: 011122.DMatrix: Water Instrument: GCMS12 Units: ug/L (ppb) Operator: VM

< 0.4

Surrogates: % Recovery: Limit: Limit: Nitrobenzene-d5 83 11 173

Concentration Compounds: ug/L (ppb)

Naphthalene <0.4 2-Methylnaphthalene <0.4

1-Methylnaphthalene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472.02.002, F&BI 301138

Lab ID: Date Extracted: 01/11/23 03-129 mb2Date Analyzed: 01/11/23 Data File: 011108.DMatrix: Water Instrument: GCMS9 Units: ug/L (ppb) Operator: VM

Upper Limit: 144 Lower Surrogates: % Recovery: Limit:

90 Nitrobenzene-d5 15

< 0.2

Concentration Compounds: ug/L (ppb) < 0.2 Naphthalene 2-Methylnaphthalene < 0.2

1-Methylnaphthalene

ENVIRONMENTAL CHEMISTS

Date of Report: 01/20/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	5	91	78	50-104	15
2-Methylnaphthalene	ug/L (ppb)	5	101	88	54-109	14
1-Methylnaphthalene	ug/L (ppb)	5	106	92	55-108	14

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- ${\rm d}$ The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Company Mari Foster Extorai Report To Amanda Bixby, Carolyn Wise City, State, ZIP Bellingham, WA 98225 Address 1329 N State St, Ste 301 Phone (360) 635-8371 Email abisby @ Me ulfoster TRIPBLANK02 301138 Ph. (206) 285-8282 Friedman & Bruya, Inc. 802-GW-100 603-GW-10.0 BDUP-GW-9.5 801-GW-9.5 Sample ID Relinquished by: Relinquished by: Received by: Received by: 03 10 02 A-E 1/10/23 Ol A-B 1/10/23 S Lab ID SIGNATURE 1/10/23 1/10/23 | 1440 1/10/23 | 1460 Sampled Date SAMPLE CHAIN OF CUSTODY Time Sampled 12/0 1210 SAMPLERS (signature) PROJECT NAME X=avalyze O=hoid Project specific RLs? - Yes / No REMARKS Mount Vericon S A Library Commons Sample Type 2 ٤ 2 8 ٤ Amenda Bixbs # of Jars S S 37.5 ANHPHAM PRINT NAME NWTPH-Ex NWTPH-C-x accounting @ mail foster com M1472,02.002 BTEX EPA 8021 NWTPH-HCID ANALYSES REQUESTED VOCs EPA 8260 PAHs EPA 8270 PCBs EPA 808 cPAHs traph. by 8270 Samples received at COMPANY MFA -8 h Rush charges authorized by: ☐ Standard turnaround

**RUSH_______ VW3/C2 \square Other_ ☐ Archive samples Default: Dispose after 30 days TURNAROUND TIME SAMPLE DISPOSAL Poc No cush 01/11/23 1/10/23/1600 18-hr 7AT DATE Notes 09:49 TIME

Np

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 1, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the additional results from the testing of material submitted on January 11, 2023 from the Mount Vernon Library Commons M1472.02.002, F&BI 301138 project. There are 4 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0201R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 11, 2022 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mount Vernon Library Commons M1472.02.002, F&BI 301138 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301138 -01	TRIP BLANK 02
301138 -02	B01-GW-9.5
301138 -03	BDUP-GW-9.5
301138 -04	B02-GW-10.0
301138 -05	B03-GW-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

Date Extracted: 01/13/23 Date Analyzed: 01/13/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
TRIP BLANK 02 301138-01	<100	114
B01-GW-9.5 301138-02	<100	111
BDUP-GW-9.5 301138-03	<100	118
B02-GW-10.0 301138-04	<100	111
B03-GW-10.0 301138-05	<100	119
Method Blank 03-0022 MB	<100	111

ENVIRONMENTAL CHEMISTS

Date of Report: 02/01/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 301138-02 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Gasoline	ug/L (ppb)	1,000	83	70-130	

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To Amanda Bixby, Carolyn Wisc

Company Maul Foster Extorgi

Address 1329 N State St, Ste 301

City, State, ZIP Bellingham, WA 98225

VW3/C2

SAMPLERS (signature) Mount Vernon PROJECT NAME REMARKS M1472.02.002 INVOICE TO

X= analyze = koid Project specific RLs? - Yes / No mul foster com accounting@

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						803-GW-10.0	802-GW-100	BDUP-GW-9.5	801-GW-9.5	TRIPBLANK02	Sample ID		Phone (360) 635-8371 Email abidy Emailtostar
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Np

Friedman & Bruya, Inc. Ph. (206) 285-8282

Relinquished by:

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Received by:

Relinquished by:

Received by:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 16, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the results from the testing of material submitted on January 11, 2023 from the Mount Vernon Library Commons M1472.02.002, F&BI 301138 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Carolyn Wise MFA0116R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 11, 2023 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mount Vernon Library Commons M1472.02.002, F&BI 301138 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301138 -01	TRIP BLANK 02
301138 -02	B01-GW-9.5
301138 -03	BDUP-GW-9.5
301138 -04	B02-GW-10.0
301138 -05	B03-GW-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

Date Extracted: 01/13/23 Date Analyzed: 01/13/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) Limit (50-150)
TRIP BLANK 02 301138-01	<1	<1	<1	<3	122
B01-GW-9.5 301138-02	<1	<1	<1	<3	120
BDUP-GW-9.5 301138-03	<1	<1	<1	<3	127
B02-GW-10.0 301138-04	<1	<1	<1	<3	121
B03-GW-10.0 301138-05	<1	<1	<1	<3	129
Method Blank 03-0022 MB	<1	<1	<1	<3	122

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

Date Extracted: 01/12/23 Date Analyzed: 01/12/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

			Surrogate
Sample ID	Diesel Range	Motor Oil Range	(% Recovery)
Laboratory ID	$(C_{10}-C_{25})$	$(C_{25}-C_{36})$	(Limit 50-150)
B01-GW-9.5 301138-02	67 x	<250	112
BDUP-GW-9.5 301138-03	69 x	<250	107
B02-GW-10.0 301138-04	80 x	<250	118
B03-GW-10.0 301138-05	<50	<250	115
Method Blank 03-146 MB	<50	<250	110

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B01-GW-9.5	Client:	Maul Foster Alongi
D . D . 1	04/44/00	T	3.54 4.50 00 000 TOD

M1472.02.002, F&BI 301138 Date Received: 01/11/23 Project: Date Extracted: 01/11/23 Lab ID: 301138-02 1/2 Date Analyzed: 01/11/23 Data File: 011119.DMatrix: Water Instrument: GCMS12 Units: ug/L (ppb) Operator: VM

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	BDUP-GW-9.5	Client:	Maul Foster Alongi

Date Received: 01/11/23 Project: M1472.02.002, F&BI 301138
Date Extracted: 01/11/23 Lab ID: 301138-03 1/2

Date Extracted:01/11/23Lab ID:301138-03Date Analyzed:01/11/23Data File:011120.DMatrix:WaterInstrument:GCMS12Units:ug/L (ppb)Operator:VM

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B02-GW-10.0	Client:	Maul Foster Alongi
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Date Received: 01/11/23 Project: M1472.02.002, F&BI 301138

Lab ID: Date Extracted: 01/11/23 301138-04 1/2 Date Analyzed: 01/11/23 Data File: 011121.DMatrix: Water Instrument: GCMS12 Units: ug/L (ppb) Operator: VM

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B03-GW-10.0	Client:	Maul Foster Alongi

Date Received: 01/11/23 Project: M1472.02.002, F&BI 301138
Date Extracted: 01/11/23 Lab ID: 301138-05 1/2

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Maul Foster Alongi
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Date Received: Not Applicable Project: M1472.02.002, F&BI 301138

Lab ID: Date Extracted: 01/11/23 03-129 mb2Date Analyzed: 01/11/23 Data File: 011108.DMatrix: Water Instrument: GCMS9 Units: ug/L (ppb) Operator: VM

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 301138-02 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/L (ppb)	50	120	70-130
Toluene	ug/L (ppb)	50	114	70-130
Ethylbenzene	ug/L (ppb)	50	108	70-130
Xylenes	ug/L (ppb)	150	113	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	104	70-130	8

ENVIRONMENTAL CHEMISTS

Date of Report: 01/16/23 Date Received: 01/11/23

Project: Mount Vernon Library Commons M1472.02.002, F&BI 301138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene	ug/L (ppb)	5 5 5 5 5 5	123 128 vo 118 119 120 128 118	106 112 104 106 100 116 109	70-130 67-119 68-126 62-130 67-125 63-131 62-133	15 13 13 12 18 10 8

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Company Mari Foster Extorai Report To Amanda Bixby, Carolyn Wise City, State, ZIP Bellingham, WA 98225 Address 1329 N State St, Ste 301 Phone (360) 635-8371 Email abisby @ Me ulfoster TRIPBLANK02 301138 Ph. (206) 285-8282 Friedman & Bruya, Inc. 802-GW-100 603-GW-10.0 BDUP-GW-9.5 801-GW-9.5 Sample ID Relinquished by: Relinquished by: Received by: Received by: 03 10 02 A-E 1/10/23 OI A-B 1/10/23 S Lab ID SIGNATURE 1/10/23 1/10/23 | 1440 1/10/23 | 1460 Sampled Date SAMPLE CHAIN OF CUSTODY Time Sampled 12/0 1210 SAMPLERS (signature) PROJECT NAME X=avalyze 0=hoid Project specific RLs? - Yes / No REMARKS Mount Vericon S A Library Commons Sample Type 2 ٤ 2 8 ٤ Amenda Bixbs # of Jars S S 37.5 ANHPHAM PRINT NAME NWTPH-Ex NWTPH-C-x accounting @ mail foster com M1472,02.002 BTEX EPA 8021 NWTPH-HCID ANALYSES REQUESTED VOCs EPA 8260 PAHs EPA 8270 PCBs EPA 808 cPAHs traph. by 8270 Samples received at COMPANY MFA -8 h Rush charges authorized by: ☐ Standard turnaround

**RUSH_______ VW3/C2 \square Other_ ☐ Archive samples Default: Dispose after 30 days TURNAROUND TIME SAMPLE DISPOSAL Poc No cush 01/11/23 1/10/23/1600 18-hr 7AT DATE Notes 09:49 TIME

Np

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 20, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the results from the testing of material submitted on January 6, 2023 from the Mt Vernon Library Commons M1472.02.002, F&BI 301058 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0120R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 6, 2022 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mt Vernon Library Commons M1472.02.002, F&BI 301058 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301058 -01	T3SW01-SS-8.0
301058 -02	T3SW02-SS-8.0
301058 -03	Pile09-SS-3.0
301058 -04	Pile10-SS-0.5

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: T3SW01-SS-8.0 Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Lab ID: Date Extracted: 01/06/23 301058-01 1/5 Date Analyzed: 01/06/23 Data File: 010611.DMatrix: Soil Instrument: GCMS12

Units: mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 137 Lower Surrogates: % Recovery: Limit: 67 16 Nitrobenzene-d5

< 0.01

Concentration Compounds: mg/kg (ppm)

< 0.01 Naphthalene 2-Methylnaphthalene < 0.01 1-Methylnaphthalene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: T3SW02-SS-8.0 Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Lab ID: Date Extracted: 01/06/23 301058-02 1/5 Date Analyzed: 01/06/23 Data File: 010612.DMatrix: Soil Instrument: GCMS12 VM

Units: mg/kg (ppm) Dry Weight Operator:

Upper Limit: 137 Lower Surrogates: % Recovery: Limit: 16 Nitrobenzene-d5 75

Concentration

Compounds: mg/kg (ppm)

< 0.01 Naphthalene 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Pile09-SS-3.0 Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Lab ID: Date Extracted: 01/06/23 301058-03 1/5 Date Analyzed: 01/06/23 Data File: 010609.DMatrix: Soil Instrument: GCMS12

Units: mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 137 Lower Surrogates: % Recovery: Limit: 16 Nitrobenzene-d5 75

Concentration Compounds: mg/kg (ppm)

< 0.01 Naphthalene

2-Methylnaphthalene < 0.01 1-Methylnaphthalene 0.017

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Pile10-SS-0.5 Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Lab ID: 301058-04 1/25
Date Analyzed: 01/06/23 Data File: 010610.D
Matrix: Soil Instrument: GCMS12
Unity: mg/kg (ppm) Dwy Weight Operators VM

Units: mg/kg (ppm) Dry Weight Operator: VM

Surrogates: % Recovery: Lower Lower Limit: Limit: Nitrobenzene-d5 111 16 137

Concentration Compounds: mg/kg (ppm)

Naphthalene2.72-Methylnaphthalene181-Methylnaphthalene13

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472.02.002, F&BI 301058

01/06/23 Lab ID: Date Extracted: 03-115 mb2 1/5 Date Analyzed: 01/06/23 Data File: 010606.DMatrix: Soil Instrument: GCMS12 Units: mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 137 Lower

Surrogates: % Recovery: Limit: 89 16 Nitrobenzene-d5

Concentration Compounds: mg/kg (ppm)

< 0.01 Naphthalene 2-Methylnaphthalene < 0.01 1-Methylnaphthalene < 0.01

ENVIRONMENTAL CHEMISTS

Date of Report: 01/20/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 301034-03 1/5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Naphthalene	mg/kg (ppm)	0.83	0.069	88	92	28-125	4
2-Methylnaphthalene	mg/kg (ppm)	0.83	0.53	141 b	150 b	10-192	6 b
1-Methylnaphthalene	mg/kg (ppm)	0.83	0.51	136 b	149 b	10-163	9 b

Analyte	$\begin{array}{c} \text{Reporting} \\ \text{Units} \end{array}$	Spike Level	Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	84	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	96	67-109
1-Methylnaphthalene	mg/kg (ppm)	0.83	100	66-107

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- ${\rm d}$ The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 1, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the amended results from the testing of material submitted on January 6, 2023 from the Mt Vernon Library Commons M1472.02.002, F&BI 301058 project. The case narrative was expanded.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0112R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 12, 2023

Amanda Bixby, Project Manager Maul Foster Alongi 1329 N State St, Suite 301 Bellingham, WA 98225

Dear Ms Bixby:

Included are the results from the testing of material submitted on January 6, 2023 from the Mt Vernon Library Commons M1472.02.002, F&BI 301058 project. There are 19 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures MFA0112R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 6, 2023 by Friedman & Bruya, Inc. from the Maul Foster Alongi Mt Vernon Library Commons M1472.02.002, F&BI 301058 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
301058 -01	T3SW01-SS-8.0
301058 -02	T3SW02-SS-8.0
301058 -03	Pile09-SS-3.0
301058 -04	Pile10-SS-0.5

The NWTPH-Dx chromatograms were reviewed to determine the possible presence of gasoline. A chromatographic pattern indicative of a low boiling product, such as gasoline, was not observed.

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Date Analyzed: 01/06/23

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR PERCENT MOISTURE USING ASTM D2216-98

Sample ID Laboratory ID	<u>% Moisture</u>
T3SW01-SS-8.0 301058-01	26
T3SW02-SS-8.0 301058-02	22
Pile09-SS-3.0 301058-03	11
Pile10-SS-0.5 301058-04	11

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Date Analyzed: 01/06/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
T3SW01-SS-8.0 301058-01	ND	ND	ND	102
T3SW02-SS-8.0 301058-02	ND	ND	ND	101
Method Blank	ND	ND	ND	101

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

Date Extracted: 01/09/23 Date Analyzed: 01/09/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) (Limit 50-132)
T3SW01-SS-8.0 301058-01	< 0.02	< 0.02	< 0.02	< 0.06	91
T3SW02-SS-8.0 301058-02	<0.02	< 0.02	<0.02	<0.06	89
Method Blank	< 0.02	<0.02	<0.02	< 0.06	90

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

Date Extracted: 01/09/23 Date Analyzed: 01/09/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
Pile09-SS-3.0 301058-03	< 0.02	< 0.02	< 0.02	< 0.06	59	123
Pile10-SS-0.5 301058-04	< 0.02	< 0.02	1.9	2.7	830	ip
Method Blank 03-0013 MB	< 0.02	< 0.02	< 0.02	<0.06	<5	90

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Date Analyzed: 01/06/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{\text{(C}_{10}\text{-C}_{25})}$	$\frac{ ext{Motor Oil Range}}{ ext{(C}_{25} ext{-C}_{36} ext{)}}$	Surrogate (% Recovery) (Limit 50-150)
T3SW01-SS-8.0 301058-01	<50	<250	104
T3SW02-SS-8.0 301058-02	<50	<250	104
Pile09-SS-3.0 301058-03	190	<250	110
Pile10-SS-0.5 301058-04	22,000	480 x	ip
Method Blank 03-116 MB2	<50	<250	100

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Pile09-SS-3.0	Client:	Maul Foster Alongi
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Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

 Date Extracted:
 01/06/23
 Lab ID:
 301058-03

 Date Analyzed:
 01/06/23
 Data File:
 301058-03.120

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic <1 Barium 10.7 Cadmium <1 Chromium 6.01 Lead <1 Mercury <1 Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client:	Maul Foster Alongi
	Client:

Date Received: 01/06/23 M1472.02.002, F&BI 301058

Project: Lab ID: Date Extracted: 301058-04 01/06/23 Date Analyzed: 01/06/23 Data File: 301058-04.102 Matrix: Soil Instrument: ICPMS2

mg/kg (ppm) Dry Weight Units: Operator: SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.48
Barium	34.6
Cadmium	<1
Chromium	13.2
Lead	2.46
Mercury	<1
Selenium	<1
Silver	<1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: NA Project: M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Lab ID: I3-11 mb
Date Analyzed: 01/06/23 Data File: I3-11 mb.097
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic <1 Barium <1 Cadmium <1 Chromium <1 Lead <1 Mercury <1 Selenium <1 Silver <1

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

T3SW01-SS-8.0 Client Sample ID: Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Lab ID: 301058-01 1/5 Date Analyzed: 01/06/23 Data File: 010611.DMatrix: Soil Instrument: GCMS12

Units: mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 167 Lower Surrogates: Terphenyl-d14 % Recovery: Limit: 90 31

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: T3SW02-SS-8.0 Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Lab ID: 301058-02 1/5 Date Analyzed: 01/06/23 Data File: 010612.DMatrix: Soil Instrument: GCMS12 Units:

mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 167 Lower Surrogates: Terphenyl-d14 % Recovery: Limit: 95 31

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Pile09-SS-3.0 Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Lab ID: 301058-03 1/5 Date Analyzed: 01/06/23 Data File: 010609.DMatrix: Soil Instrument: GCMS12 Units: mg/kg (ppm) Dry Weight Operator: VM

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Pile10-SS-0.5 Client: Maul Foster Alongi

Date Received: 01/06/23 Project: M1472.02.002, F&BI 301058

Date Extracted: 01/06/23 Lab ID: 301058-04 1/25 Date Analyzed: 01/06/23 Data File: 010610.DMatrix: Soil Instrument: GCMS12 VM

Units: mg/kg (ppm) Dry Weight Operator:

Upper Limit: 167 Lower Surrogates: Terphenyl-d14 % Recovery: Limit: 89 d 31

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: M1472.02.002, F&BI 301058

01/06/23 Date Extracted: Lab ID: 03-115 mb2 1/5 Date Analyzed: 01/06/23 Data File: 010606.DMatrix: Soil Instrument: GCMS12 Units:

mg/kg (ppm) Dry Weight Operator: VM

Upper Limit: 167 Lower Surrogates: Terphenyl-d14 % Recovery: Limit: 107 31

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 301058-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	mg/kg (ppm)	0.5	94	66-121		
Toluene	mg/kg (ppm)	0.5	94	72 - 128		
Ethylbenzene	mg/kg (ppm)	0.5	98	69-132		
Xylenes	mg/kg (ppm)	1.5	100	69-131		
Gasoline	mg/kg (ppm)	20	95	61 - 153		

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 301046-01 (Matrix Spike)

			(Wet wt)	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (nnm)	5.000	10.000	91 h	129 h	70-130	34 h

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	114	70-130

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 301058-03 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<1	92	90	75-125	2
Barium	mg/kg (ppm)	50	9.55	107	105	75 - 125	2
Cadmium	mg/kg (ppm)	10	<1	99	98	75 - 125	1
Chromium	mg/kg (ppm)	50	5.35	99	97	75 - 125	2
Lead	mg/kg (ppm)	50	<1	102	99	75 - 125	3
Mercury	mg/kg (ppm	5	<1	101	87	75 - 125	15
Selenium	mg/kg (ppm)	5	<1	95	92	75 - 125	3
Silver	mg/kg (ppm)	10	<1	98	97	75 - 125	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	89	80-120
Barium	mg/kg (ppm)	50	97	80-120
Cadmium	mg/kg (ppm)	10	95	80-120
Chromium	mg/kg (ppm)	50	104	80-120
Lead	mg/kg (ppm)	50	102	80-120
Mercury	mg/kg (ppm)	5	102	80-120
Selenium	mg/kg (ppm)	5	93	80-120
Silver	mg/kg (ppm)	10	98	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/23 Date Received: 01/06/23

Project: Mt Vernon Library Commons M1472.02.002, F&BI 301058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 301034-03 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	94	93	50-150	1
Chrysene	mg/kg (ppm)	0.83	< 0.01	94	94	50-150	0
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	88	91	50-150	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	88	50-150	5
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	84	88	50-150	5
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	101	94	41-134	7
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	95	90	44-130	5

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benz(a)anthracene Chrysene	mg/kg (ppm) mg/kg (ppm) mg/kg (ppm)	0.83 0.83 0.83	98 105	70-130 70-130
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	mg/kg (ppm) mg/kg (ppm)	0.83 0.83	94 93 94	68-120 69-125 70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm) mg/kg (ppm)	0.83 0.83	91 89	67-129 67-128

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

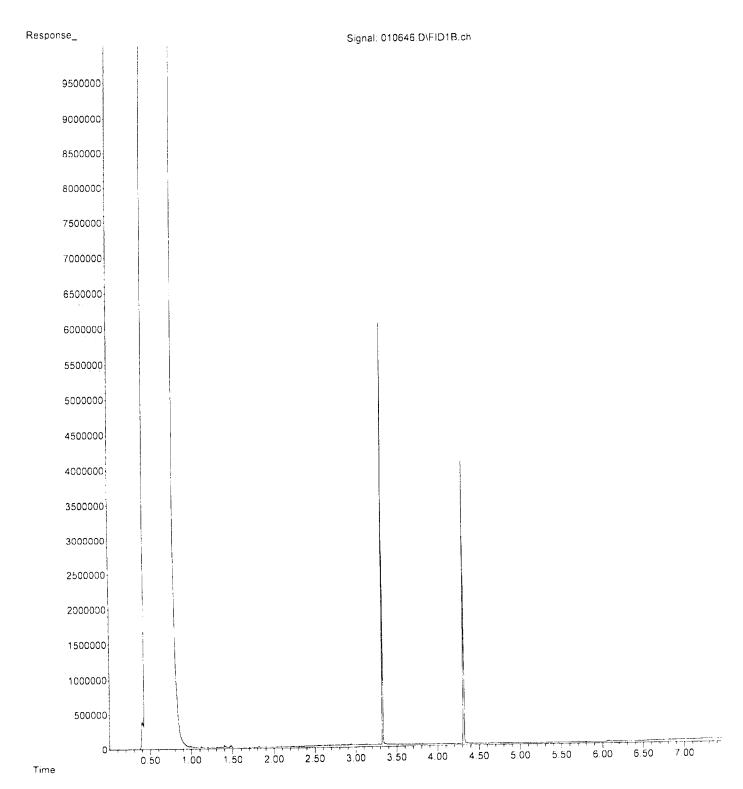
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Operator : TL

Acquired : 06 Jan 2023 06:11 pm using AcqMethod DX.M

Instrument : GC14 Sample Name: 301058-01

Misc Info : ERR



File :P:\Proc_GC14\01-06-23\010647.D

Operator : TL

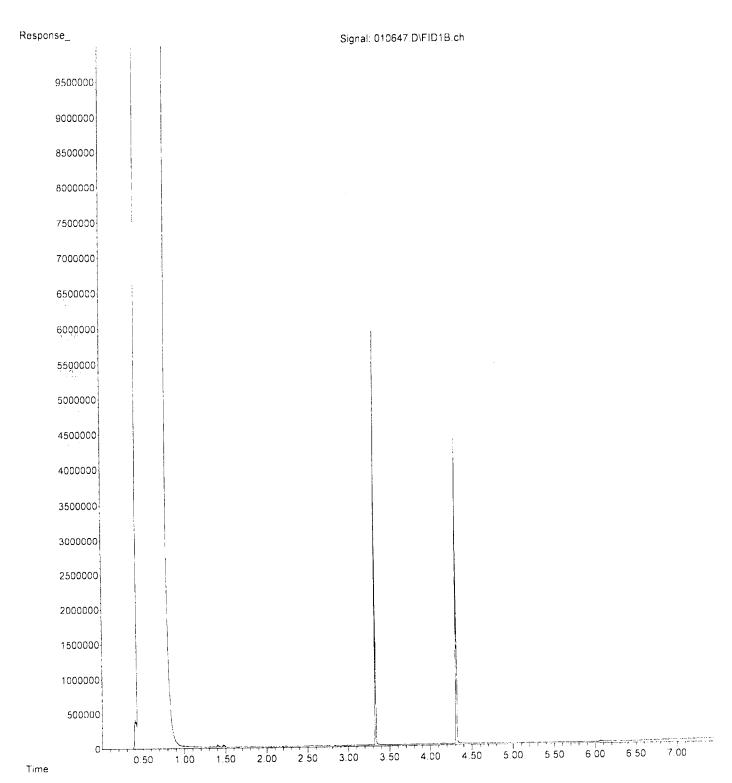
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Instrument : GC14 Sample Name: 301058-02

Misc Info :

Vial Number: 43

ERR



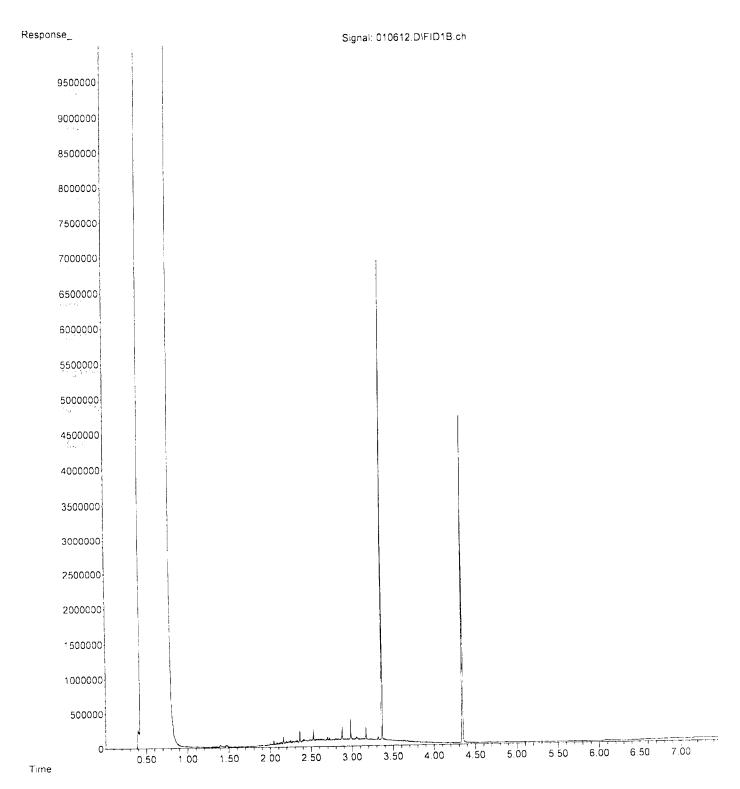
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Operator : TL

Acquired : 06 Jan 2023 10:01 am using AcqMethod DX.M

Instrument : GC14 Sample Name: 301058-03

Misc Info : ERR



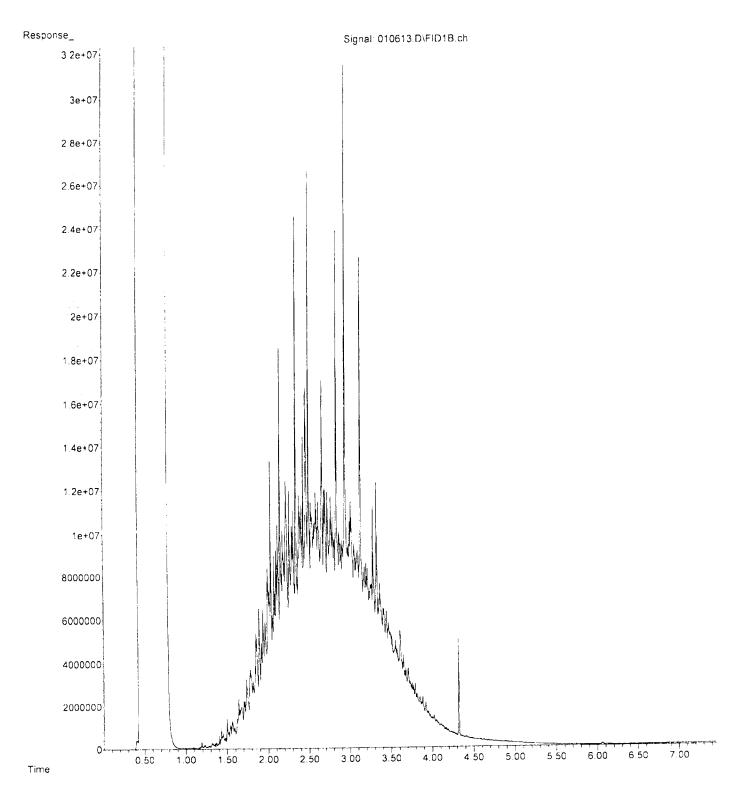
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Operator : TL

Acquired : 06 Jan 2023 10:12 am using AcqMethod DX.M

Instrument : GC14 Sample Name: 301058-04

Misc Info : ERR



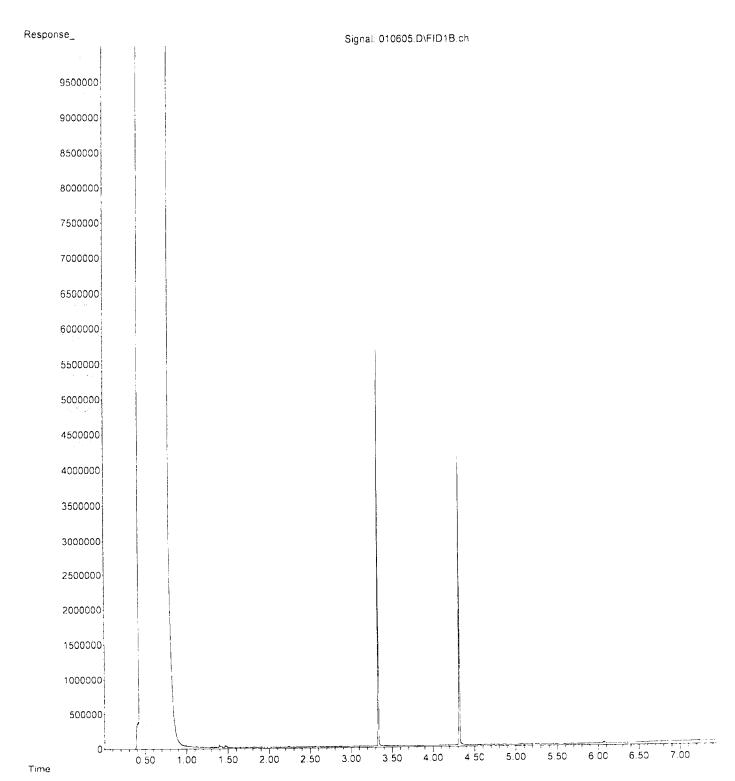
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Operator : TL

Acquired : 06 Jan 2023 08:19 am using AcqMethod DX.M

Instrument : GC14
Sample Name: 03-116 mb2

Misc Info : ERR



File :P:\Proc_GC14\01-06-23\010603.D

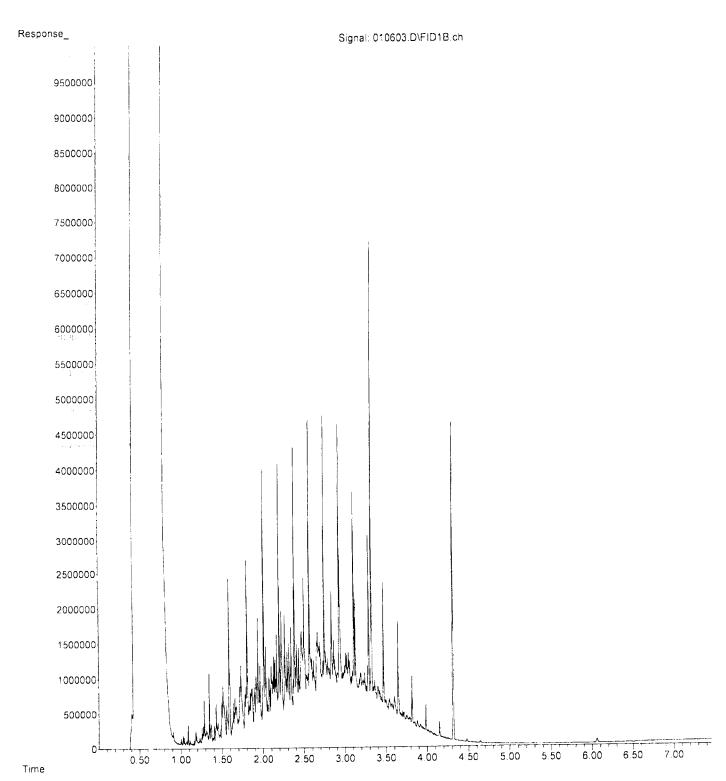
Operator : TL

Acquired : 06 Jan 2023 07:43 am using AcqMethod DX.M

Instrument : GC14

Sample Name: 500 Dx 67-143B

Misc Info : ERR



ATTACHMENT H

DATA VALIDATION MEMORANDUM



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. M1472.02.002 | FEBRUARY 2, 2023 | MOUNT VERNON LIBRARY COMMONS

Maul Foster & Alongi, Inc. (MFA), conducted an independent Stage 2A review of the quality of analytical results for groundwater, soil, stockpile soil, and associated quality control samples collected in January 2023 at 208 W Kincaid Street, Mount Vernon, Washington.

Friedman & Bruya, Inc. (FBI), performed the analyses. MFA reviewed FBI report numbers 301034-amended, 301058-amended, 301058-additional, 301083, 301102, 301138, 301138-additional_1, and 301138-additional_2. The analyses performed and the samples analyzed are listed in the following tables. Not all analyses were performed on every sample.

Analysis	References
Diesel- and motor-oil-range hydrocarbons	NWTPH-Dx
Gasoline, diesel, and heavy oil	NWTPH-HCID
Gasoline-range hydrocarbons	NWTPH-Gx
Percent moisture	ASTM D2216-98
Total metals	EPA 6020B
Semivolatile organic compounds	EPA 8270E
Volatile organic compounds	EPA 8021B, EPA 8260D

Notes

ASTM = ASTM International.

EPA = U.S. Environmental Protection Agency.

HCID = hydrocarbon identification.

NWTPH = Northwest Total Petroleum Hydrocarbons.

Samples Analyzed						
	Report 30103	34-amended				
T3BASE01-SS-9.0	T3DUP-SS-9.0	PILEO6-SS-1.0	PILE07-SS-2.0			
PILE08-SS-1.5	TRIP BLANK 01					
	Reports 301058-amended/301058-additional					
T3SW01-SS-8.0	T3SW02-SS-8.0	Pile09-SS-3.0	Pile10-SS-0.5			
Report 301083						
T3SW03-SS-8.0	T3SW04-SS-8.0	T3SW05-SS-8.0				
	Report	301102				
T3SW06-SS-8.0	T3BASE02-SS-9.0	T3SW07-SS-8.0	T3SW08-SS-8.0			
Reports 301138/301138-additional_1/301138-additional_2						
TRIP BLANK 02	B01-GW-9.5	BDUP-GW-9.5	B02-GW-10.0			
B03-GW-10.0						

DATA QUALIFICATION

Analytical results were evaluated according to applicable sections of U.S. Environmental Protection Agency (EPA) guidelines for data review (EPA 2020a, 2020b) and appropriate laboratory- and method-specific guidelines (EPA 1986, FBI 2022).

Data validation procedures were modified, as appropriate, to accommodate quality control requirements for methods that EPA data review procedures do not specifically address (e.g., Northwest Total Petroleum Hydrocarbons [NWTPH]-Dx).

Based on the results of the data quality review procedures described below, the data, with the appropriate final data qualifiers assigned, are considered acceptable for their intended use. Final data qualifiers represent qualifiers originating from the laboratory and accepted by the reviewer, and data qualifiers assigned by the reviewer during validation.

Final data qualifiers:

- J = result is estimated.
- J+= result is estimated, but the result may be biased high.
- U = result is non-detect at the method reporting limit (MRL).

Method NWTPH-HCID is a qualitative method. Hydrocarbon identification results are reported by FBI as either detect or non-detect. FBI reported laboratory method blanks but did not report other batch quality control results for NWTPH-HCID. Qualification by the reviewer was not required.

In report 301058-amended, FBI noted that the NWTPH-Dx motor-oil-range hydrocarbons result for sample Pile10-SS-0.5 had a chromatographic pattern that did not resemble the fuel standard used for quantitation. Results are reported as motor-oil-range hydrocarbons rather than specific fuel products; thus, qualification by the reviewer was not required. The associated result is qualified in the Surrogate Recovery Results section below.

In report 301138, FBI noted that the NWTPH-Dx diesel-range hydrocarbons results for samples B01-GW-9.5, BDUP-GW-9.5, and B02-GW-10.0 had chromatographic patterns that did not resemble the fuel standard used for quantitation. Results are reported as diesel-range hydrocarbons rather than specific fuel products; thus, qualification by the reviewer was not required.

According to the case narratives accompanying reports 301034-amended and 301058-amended, the NWTPH-Dx chromatograms did not show indication of gasoline products. The reviewer confirmed with the laboratory that the NWTPH-Gx gasoline-range hydrocarbons results for samples PILE07-SS-2.0, PILE08-SS-1.5, Pile09-SS-3.0, and Pile10-SS-0.5 were likely impacted by overlap from diesel-range hydrocarbons. The reviewer qualified associated sample results with J+, as shown in the following table. Some results were also qualified based on surrogate issues in the Surrogate Recovery Results section.

Report	Sample	Analyte	Original Result (mg/kg)	Qualified Result (mg/kg)
201024	PILE07-SS-2.0	Gasoline-range hydrocarbons	210	210 J+(a)
301034	PILE08-SS-1.5		150	150 J+
201050	Pile09-SS-3.0		59	59 J+
301058	Pile10-SS-0.5		830	830 J+ ^(a)

Notes

J+ = result is estimated, but the result may be biased high.

mg/kg = milligrams per kilogram.

[a] Final qualification based on chromatographic overlap and surrogate recovery.

SAMPLE CONDITIONS

Sample Custody

Sample custody was appropriately documented on the chain-of-custody (COC) forms accompanying the reports. Gaps in custody for all sample delivery groups are due to shipment via a third-party shipping service.

Holding Times

Extractions and analyses were performed within the recommended holding times.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

REPORTING LIMITS

The laboratory evaluated results to MRLs. Samples that required dilutions because of high analyte concentrations, matrix interferences, and/or dilutions necessary for preparation and/or analysis were reported with raised MRLs.

The reviewer confirmed that when samples were diluted for analysis or when a higher sample volume was used for the extraction, FBI provided the preparation or dilution factor after the laboratory sample identification number (e.g., 301034-01 1/50 indicates a dilution factor of 50).

BLANKS

Method Blanks

Laboratory method blanks are used to assess whether laboratory contamination was introduced during sample preparation and analysis. Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the laboratory method blanks were associated with all samples prepared in the analytical batch.

All laboratory method blank results were non-detect to MRLs.

Equipment Rinsate Blanks

Equipment rinsate blanks are used to evaluate field equipment decontamination. These blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

Trip Blanks

Trip blanks are used to evaluate whether volatile organic compound contamination was introduced during sample storage and during shipment between the sampling location and the laboratory.

Trip blanks (TRIP BLANK 01 in report 301034-amended, and TRIP BLANK 02 in report 301138) were submitted for EPA Method 8021B analysis. TRIP BLANK 02 was also analyzed by NWTPH-Gx in report 301138-additional_2.

The trip blanks were non-detect to MRLs for all target analytes.

LABORATORY CONTROL SAMPLE AND LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample (LCS) and a laboratory control sample duplicate (LCSD) are spiked with target analytes to provide information about laboratory precision and accuracy.

Where LCSD were not reported, laboratory precision was evaluated using laboratory duplicate results or matrix spike (MS) and matrix spike duplicate (MSD) results. The LCS and remaining LCSD were prepared and analyzed at the required frequency.

According to report 301138, the EPA Method 8270E LCS result for chrysene was above the upper percent recovery acceptance limit of 119 percent, at 128 percent. All associated sample results were non-detect and thus did not require qualification.

All remaining LCS and LCSD results were within acceptance limits for percent recovery and relative percent difference (RPD).

LABORATORY DUPLICATE RESULTS

Laboratory duplicate results are used to evaluate laboratory precision.

Where laboratory duplicate results were not reported, laboratory precision was evaluated using LCS and LCSD or MS and MSD results. All remaining laboratory duplicate samples were prepared and analyzed at the required frequency.

Laboratory duplicate results greater than five times the MRL were evaluated using laboratory RPD control limits. Laboratory duplicate results less than five times the MRL, including non-

detects, were evaluated using a control limit of the MRL of the parent sample; the absolute difference of the laboratory duplicate sample result and the parent sample result, or the MRL for non-detects, was compared to the MRL of the parent sample.

All laboratory duplicate results met the acceptance criteria.

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RESULTS

MS and MSD results are used to evaluate laboratory precision, accuracy, and the effect of the sample matrix on sample preparation and analysis.

Where MS and MSD were not reported, laboratory precision and accuracy were evaluated using LCS and laboratory duplicate results. All remaining MS and MSD samples were prepared and analyzed at the required frequency.

When MS and MSD were prepared from samples with high concentrations of target analytes, associated MS and/or MSD percent recovery and/or RPD control limit exceedances did not require qualification because spike concentrations could not be accurately quantified. High concentrations of target analytes are defined as four times the spike amount for all analyses.

When MS and MSD were prepared with samples from unrelated projects, the MS and/or MSD percent recovery and/or RPD control limit exceedances did not require qualification because these sample matrices were not representative of project sample matrices.

All MS and MSD results were within acceptance limits for percent recovery and RPD.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance for individual samples for organic analyses.

The laboratory appropriately documented and qualified surrogate outliers. When surrogate percent recoveries were outside of acceptance limits because of dilutions necessary to quantify high concentrations of target analytes, qualification by the reviewer was not required. The reviewer confirmed that batch quality control results for samples with surrogate outliers were within acceptance limits.

According to report 301034-amended, the NWTPH-HCID surrogate recoveries for samples T3BASE01-SS-9.0 and T3DUP-SS-9.0 were outside percent recovery acceptance limits due to matrix effects. The reviewer confirmed with the laboratory that the surrogates recovered high. NWTPH-HCID is a qualitative analysis, and the results did not require qualification. The reviewer confirmed that the associated NWTPH-Dx follow-up analyses for these samples had passing surrogate recoveries.

According to report 301034-amended, the EPA Method 8021B and NWTPH-Gx surrogate recovery for sample PILE07-SS-2.0 was outside percent recovery acceptance limits due to matrix effects. The reviewer confirmed with the laboratory that the surrogate was above the

upper percent recovery acceptance limit of 132 percent, at 134 percent. The reviewer qualified the associated detected sample results with J+, as shown in the following table. Associated non-detect sample results did not require qualification. The gasoline-range hydrocarbons result was also qualified in the Data Qualification section above due to overlap from diesel-range hydrocarbons.

Report	Sample Analyte		Original Result (mg/kg)	Qualified Result (mg/kg)
		Toluene	0.11	0.11 J+
301034-	PILE07-SS-2.0	Ethylbenzene	1.7	1.7 J+
amended	FILEU/-33-2.0	Xylenes (total)	2.2	2.2 J+
		Gasoline-range hydrocarbons	210	210 J+ ^(a)

Notes

J+ = result is estimated, but the result may be biased high.

Mg/kg = milligrams per kilogram.

^(a)Final qualification based on chromatographic overlap and surrogate recovery.

According to report 301058-amended, the EPA Method 8021B and NWTPH-Gx surrogate recovery for sample Pile10-SS-0.5 was outside percent recovery acceptance limits due to matrix effects. The reviewer confirmed with the laboratory that the surrogate was above the upper percent recovery acceptance limit of 150 percent, at 224 percent. The reviewer qualified the associated detected sample results with J+, as shown in the following table. Associated non-detect sample results did not require qualification. The gasoline-range hydrocarbons result was also qualified in the Data Qualification section above due to overlap from diesel-range hydrocarbons.

Report	Sample	Analyte	Original Result (mg/kg)	Qualified Result (mg/kg)
		Ethylbenzene	1.9	1.9 J+
301058- amended	Pile10-SS-0.5	Xylenes (total)	2.7	2.7 J+
difference		Gasoline-range hydrocarbons	830	830 J+ ^(a)

Notes

J+ = result is estimated, but the result may be biased high.

mg/kg = milligrams per kilogram.

^(a)Final qualification based on chromatographic overlap and surrogate recovery.

According to report 301058-amended, the NWTPH-Dx surrogate recovery for sample Pile10-SS-0.5 was outside percent recovery acceptance limits due to matrix effects. The reviewer confirmed with the laboratory that the surrogate was above the upper percent recovery acceptance limit of 150 percent, at 155 percent. The reviewer qualified the associated sample results with J+, as shown in the following table.

Report	Sample	Analyte	Original Result (mg/kg)	Qualified Result (mg/kg)
301058-	Dile 10 CC 0 F	Diesel-range hydrocarbons	22,000	22,000 J+
amended	Pile10-SS-0.5	Motor-oil-range hydrocarbons	480	480 J+

Notes

J+ = result is estimated, but the result may be biased high. mg/kg = milligrams per kilogram.

All remaining surrogate results were within percent recovery acceptance limits.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. The following field duplicate and parent sample pairs were submitted for analysis:

Report	Parent Sample	Field Duplicate Sample
301034-amended	T3BASE01-SS-9.0	T3DUP-SS-9.0
301138/301138- additional_1/ 301138-additional_2	B01-GW-9.5	BDUP-GW-9.5

MFA uses acceptance criteria of 100 percent RPD for results that are less than five times the MRL or 50 percent RPD for results that are greater than five times the MRL. RPD was not evaluated when both results in the sample pair were non-detect. When one result in the sample pair was non-detect, RPD was evaluated using the MRL of the non-detect result. Field duplicate results that exceeded the acceptance criteria were qualified by the reviewer with J, as shown in the following table.

Report	Sample	Analyte	RPD (%)	Original Result (mg/kg)	Qualified Result (mg/kg)
301034-	T3BASE01-SS-9.0	Manhthalana	/0	2.9	2.9 J
amended	T3DUP-SS-9.0	Naphthalene	62	5.5	5.5 J

Notes

J = result is estimated.

mg/kg = milligrams per kilogram.

RPD = relative percent difference.

All remaining field duplicate results met the RPD acceptance criteria.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

The COC forms accompanying reports 301034-amended, 301058-amended, 301058-additional, 301083, and 301102 have notations by FBI that marked some samples for analysis

that were initially submitted on hold. The reviewer confirmed that these analyses were requested by MFA project staff after sample receipt.

Reports 301058-additional and 301138-additional_1 include 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene results by EPA Method 8270E for samples T3SW01-SS-8.0, T3SW02-SS-8.0, B01-GW-9.5, BDUP-GW-9.5, B02-GW-10.0, and B03-GW-10.0. These analytes were requested on the COC forms on hold, or the analytes were initiated after sample receipt, but results were missing from initial reports 301058 and 301138. FBI also reported these analytes for samples Pile09-SS-3.0 and Pile10-SS-0.5, which had not been requested. FBI released these results in separate reports due to laboratory system limitations.

On the COC form accompanying report 301034-amended, samples T3BASE01-SS-9.0 and T3DUP-SS-9.0 were submitted on hold for benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B. Analysis was initiated after sample receipt by MFA project staff. FBI reported these analytes by EPA Method 8260D rather than 8021B. The reviewer alerted the MFA project manager and confirmed that screening levels had been met with EPA Method 8260D. MFA did not request reanalysis of the samples by EPA Method 8021B.

Report 301138-additional_2 includes NWTPH-Gx results for samples TRIP BLANK 02, B01-GW-9.5, BDUP-GW-9.5, B02-GW-10.0, and B03-GW-10.0. The reviewer confirmed that the MFA project manager requested this additional analysis after the final report was received. FBI added a notation to the COC form to indicate this analysis. FBI released these results in a separate report due to laboratory system limitations.

FBI released amendments for reports 301034 and 301058 to update the case narratives accompanying the reports. The laboratory also included NWTPH-Dx chromatograms at the end of the reports. The file names are appended with "amended" to indicate the revisions.

No other issues were found.

EPA. 1986. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. EPA publication SW-846. 3rd ed. U.S. Environmental Protection Agency. Final updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), VI phase I (2017), VI phase II (2018), VI phase II (2019), VII phase I (2019), and VII phase II (2020).

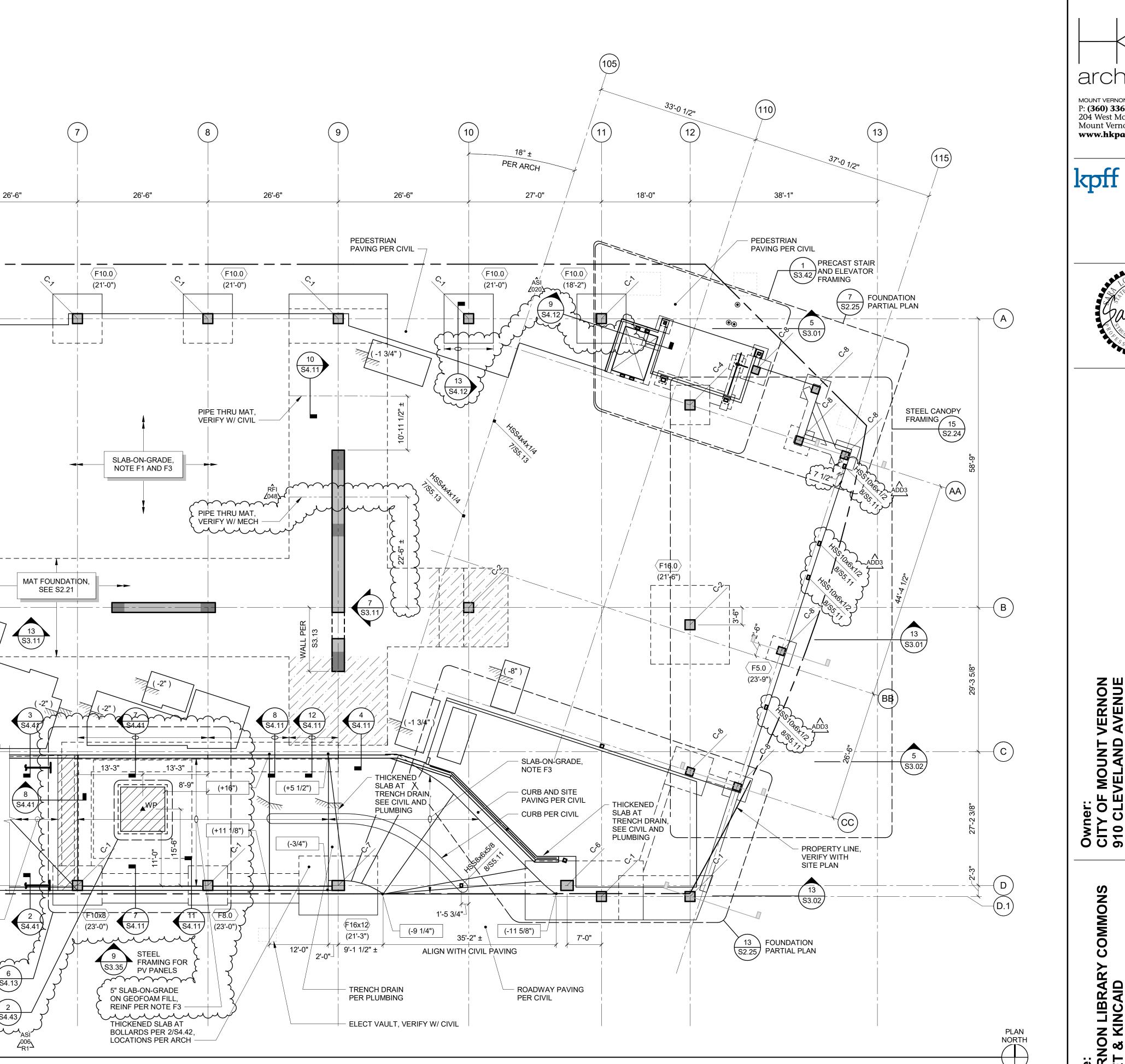
EPA. 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA 542-R-20-006. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation: Washington, DC. November.

EPA. 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA 540-R-20-005. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation: Washington, DC. November.

FBI. 2022. Quality Assurance Manual. Rev. 18. Friedman & Bruya, Inc.: Seattle, WA. December 9.

ATTACHMENT I FOUNDATION PLAN





FOUNDATION PLAN

FOOTING SCHEDULE								
TYPE MARK	DIMENSIONS			REINFORCING	TYPE COMMENTS			
TIPE WARK	LENGTH	WIDTH	DEPTH	KLINI OKOING	TIPE COMMENTS			
F3.0	3'-0"	3'-0"	1'-0"	(3) #5 EW BOT	STD HOOK EA END			
F5.0	5'-0"	5'-0"	1'-3"	(5) #6 EW BOT	-			
F6.0	6'-0"	6'-0"	1'-6"	(5) #7 EW BOT	-			
F7.0	7'-0"	Z'-0"	1'-9"	(6) #7 EW BOT				
F8.0	8'-0"	8'-0"	2'-0"	(6) #7 EW BOT (GR 80)	7/S4.01			
F10,0	10'-0"	10'-0"	2'-6"	(8) #8 EW BOT (GR 80)	7/S4.01			
F13.0	13'-0"	13'-0"	3'-0"	(10) #9 EW BOT (GR 80)	7/S4.01			
F16.0	16'-0"	16'-0"	3'-6"	(14) #9 EW BOT (GR 80)	7/S4.01			
F10x8	8'-0"	10'-0"	2'-0"	(6) #7 LNGT BOT (GR 80) (8) #7 TRANS BOT (GR 80)	7/S4.01			
F12x8	8'-0"	12'-0"	2'-0"	(8) #7 LNGT BOT (GR 80) (10) #7 TRANS BOT (GR 80)	7/S4.01			
F14x8	8'-0"	14'-0"	2'-6"	(8) #8 LNGT BOT (GR 80) (12) #8 TRANS BOT (GR 80)	7/S4.01			
F16x12	12'-0"	16'-0"	2'-9"	(12) #8 LNGT BOT (GR 80) (13) #8 TRANS BOT (GR 80)	7/\$4.01			
F24x12	12'-0"	24'-0"	3'-6"	(12) #10 LNGT BOT (GR 80) (18) #10 TRANS BOT (GR 80)	7/S4.01			

18'-6"

WATER QUALITY VAULT, VERIFY

F13.0 (20'-0") ASI (20'-0") 2005\

 \langle F8.0 \rangle

(21'-3")

Approximate

_ - - - + - -/- -

(F14x8)

(22'-6")

PENETRATION

PER MECH

excavation area

PEDESTRIAN

PAVING PER CIVIL

PRECAST STAIR AND ELEVATOR

FRAMING

FOUNDATION 5
PARTIAL PLAN S2.25

WATER QUALITY

PROPERTY LINE,

WATER QUALITY

VAULT, VERIFY W/ CIVIL -

VERIFY WITH

SITE PLAN -

VAULT, VERIFY

W/ CIVIL

26'-6"

- PROPERTY LINE,

VERIFY WITH

SITE PLAN

26'-6"

(F10.0) (21'-0")

SEE ARCH FOR DIVIDER

STRIPS CAST INTO SOG. TYPICAL SOG JOINTS TO TERMINATE AT DIVIDER

[-/-/-/-\+-/-\hat{\pi}_-----

PIPE TH<mark>RU MAT,</mark> VERIFY W/ CIVIL

(F14x8)

(22'-6")

26'-6"

- DROP FOOTINGS AT PLANTING, TYP

(21'-0")

S3.14, TYP

PIPE THRU MAT,

VERIFY W/ MECH

⟨ F7.0 ⟩

(23'-3")

F12x8

(23'-0")

8 S3.03

26'-6"

26'-6"

 $\langle \mathsf{F10.0} \rangle$

(21'-0")

L - + - J

SITE PAVING (

 \langle F7.0 angle

(23'-3")

TOWER CRANE / 6

FOUNDATION S4.13

SLAB-ON-GRADE /

BLOCK OUT

26'-6"

SLAB-ON-GRADE, NOTE F1 AND F3

(S4.11)

, minimus

9 SIEEL FRAMING FOR PV PANELS

5" SLAB-ON-GRADE

ON GEOFOAM FILL,

REINF PER NOTE F3 -

THICKENED SLAB AT BOLLARDS PER 2/S4.42,

LOCATIONS PER ARCH -

munum

m

 $\langle F10.0 \rangle$

(21'-0")

MAT FOUNDATION, SEE S2.21

 $\langle F10.0 \rangle$

(21'-0")

INDICATES FOOTING TYPE, SEE 8/S4.02 - INDICATES BOTTOM OF FOOTING ELEVATION

www.www.

CONCRETE COLUMN SCHEDULE										
TYPE MARK	C-1	С	C-3	C-4	C-5	C-6	C-7	C-8	C-9	
LEVEL 4										
LEVEL 3										
LEVEL 2	24x24 (4) #10 (8) #8 #5 @ 6" () (12)	x24) #10 4" OC 6" OC	24x24 (4) #10 (8) #8 #5 @ 4" OC #5 @ 6" OC	24x24 (4) #10 (8) #8 #5 @ 6" OC		24x24 (4) #10 (8) #8 #5 @ 6" OC		18x18 (4) #10 (4) #8 #5 @ 4.5" OC #5 @ 6" OC	
LEVEL 1			24x24 (4) #10 (8) #8 #5 @ 6" OC		TRANSFER BEAM BELOW	30x24 (4) #10 (10) #8 #5 @ 6" OC	30x24 (4) #10 (10) #8 #5 @ 6" OC	18x18 (4) #10 (4) #8 #5 @ 4.5" OC #5 @ 6" OC		

NOTES:

1. SEE TYPICAL CONCRETE COLUMN ELEVATION 12/S4.21 FOR ADDITIONAL INFORMATION. 2. SEE S4.21 FOR COLUMN SECTION DETAILS. 3. WHERE ZONE 2 TIE SIZE AND SPACING IS NOT SPECIFIED, USE ZONE 1 OVER ENTIRE HEIGHT.

KEY: COL SIZE VERT REINF ZONE 1 TIES ZONE 2 TIES

FOUNDATION PLAN NOTES:
F1. TOP OF SLAB-ON-GRADE SHALL BE 26'-0" THIS LEVEL, UNO.

AÓD3

(A2.0X - SLAB EDGE PLAN

GENERAL PLAN NOTES:
G1. REFERENCE DRAWINGS:

S2.3X

S5.0X

SLOPE LINEARLY BETWEEN-ECTS-WATNONS/SHOWN.
F3. /SCAB-ON-GRADE-SHALL BE 5"-THICK WITH #4 @ 14" OC EW } RFI GRADE 80, UNO BASE FOR SLABON GRADE SHANL CONSIST OF Z007\\APOR\RETARDER OVER RIGID INSULATION PER ARCH, AND 24' COMPACTED GRAVEL FILL (CAPILLARY BREAK) PER GEOTECHNICAL REPORT.

F4. PROVIDE 12" COMPACTED FILL BELOW FOUNDATIONS PER GEOTECHNICAL REPORT, VERIFY WITH DEFERRED DESIGN. F5. PROVIDE RAMMED AGGREGATE PIERS (RAP) BELOW SLAB-ON-GRADE AND FOUNDATIONS PER DEFERRED DESIGN TO ACHIEVE ALLOWABLE BEARING PRESSURE PER S0.01. SEE 3/S4.02 FOR ADDITIONAL INFORMATION. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. FOR BIDDING PURPOSES, ASSUME GROUND IMPROVEMENTS EXTEND A MINIMUM OF 45 FEET BELOW GRADE BELOW FOUNDATIONS, AND 25 FEET BELOW SLAB ON GRADE. THIS TO BE CONFIRMED BY RAP

LOAD MAPS

DESIGNER. INDICATES AREA OF IMPOVED SUBGRADE BELOW MAT FOUNDATION FOR INCREASED BEARING CAPACITY TO PERMIT MINIMUM 1/3 INCREASE (6667 PSF) FOR SEISMIC/WIND ALLOWABLE BEARING CAPACITY. F7. DESIGN GROUNDWATER ELEVATION IS 22'-0" PER GEOTECH.

F8. PROVIDE ADDITIONAL REINFORCING AT FOOTINGS TO TIE FOUNDATIONS TO SLAB-ON-GRADE. SEE DETAIL 8/S4.02. F9. INDICATES CLOSURE STRIP.

Sheet No.: