Focused Subsurface Investigation Report

December 18, 2017

Site Address:

23418 Pacific Highway South Kent, Washington

Prepared for:

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File: FSI-23418 Pacific Highway S.-121817 ECI Project No.: 0673-01-01

1.0 INTRODUCTION

EcoCon, Inc. (ECI) has prepared this Focused Subsurface Investigation (FSI) Report for a property located at 23418 Pacific Highway South, in Kent, Washington (Subject Property) (Figures 1 and 2, Appendix A).

The purpose of this report is to present the findings of a Focused Subsurface Investigation performed at the Site to determine if the soil and/or groundwater beneath the Subject Property has been impacted by historical activities of concern on or adjacent to the Subject Property. These activities included:

- A gasoline station historically operated on the southwest corner of the Subject Property, from at least 1941 to an unknown date. No information was provided as to when the station was decommissioned. The former service station was discovered during historical research conducted by others;
- A dry cleaning business (King Dry Cleaners) that operated in a portion of the building located in the southern portion of the Subject Property and addressed as 23416 Pacific Highway South Kent, Washington; and
- A petroleum hydrocarbon soil remediation project in 2002 conducted on the adjacent property to the south (23428 Pacific Highway South, Kent, Washington). As of the date of this report, the site has not received a "No Further Action" (NFA) determination from the Washington State Department of Ecology (Ecology)

The scope of work for this FSI was divided into three areas to specifically address potential impacts from each of the identified activities of concern (Figure 3, Appendix A). These areas are:

- Area 1: The area believed to be occupied by the former service station.
- Area 2: The area on the north side of the building in front of the former dry cleaners.
- Area 3: The area along the southern Subject Property boundary with the adjacent property.

In accordance with the Washington State Model Toxics Control Act (MTCA) Cleanup Regulations as established in Section 200 of Chapter 173-340 of the Washington Administrative Code (WAC 173-340-200), the "Site" is defined by the full lateral and vertical extent of contamination, if present, that has resulted from a historical release of hazardous substances on or adjacent to the Subject Property.

1.1 Site Location / Description

The Subject Property is located at 23418 Pacific Avenue South in Kent, Washington, and consists of a 2.27-acre rectangular shaped parcel (King County parcel number 250060-0465). The Subject Property is located in the Northeast 1/4 of the Southeast 1/4 of Section 16, Township 22 North, Range 4 East, Willamette Meridian.

According to the City of Kent Zoning Map, the western half of the Subject Property is zoned "Midway Transit Community 1" (MTC-1) and the eastern half of the Subject Property is zoned "Midway Transit Community 2" (MTC-2). Both of the zoning designations are:

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"...to provide an area that will encourage the location of moderately dense and varied retail, office, or residential activities in support of rapid light rail and mass transit options, to enhance a pedestrian-oriented character..."

The only difference in the two zoning designations is that the MTC-1 zoning acknowledges "... the existing highway corridor character."

The Subject Property and is developed with one building on the southern half of the property that was originally built in 1962. Most recently it was divided into five commercial spaces housing from west to east, a Dollar Tree store, a smoke shop, a United States Post Office branch, a small grocery and produce store, and a fitness center. It was reported that the former dry cleaners was located adjacent to the Dollar Tree Store to the east. The building is currently vacant because of a fire that destroyed the western (Dollar Tree) portion of the building in 2015. With the exception of the foundation footings, that portion of the building has been removed. The northern half of the Subject Property is a paved parking lot.

The Subject Property is bound:

- To the North by a Sherwin-Williams Paint store and the White Snow Laundry in what appears to be a former bank building. Beyond this is S Kent- Des Moines Road also known as State Route 516.
- To the South by a retail tire business and a vacant parking lot. Further south are other commercial businesses. tire store and then at, with residences beyond the road;
- To the East by 30th Avenue South and then motel to the northeast and an auto body shop to the east and a trucking company storage parking lot to the southeast. Further to the east is Interstate 5; and
- To the West by Pacific Highway South (also known as State Route 99) and then a recreational marijuana retail store and a sea diving shop along with a travel agency. To West and Northwest is a retail strip mall containing various restaurants and other commercial businesses. Further west are multifamily residential developments.

The greater vicinity is occupied primarily commercial developments.

1.2 Previous Environmental Investigations and Remedial Actions

ECI was told that a previous Phase I Environmental Site Assessment (ESA) was conducted on the Subject Property for Sound Transit, who reportedly wants all or a portion of the Subject Property for expansion of the regional light rail system. ECI was not provided a copy of that ESA. However, it was during that ESA that the former service station was identified.

During a review of the Ecology cleanup site database, ECI observed that the adjacent property to the south was listed by Ecology (listed as Southgate Oil) as having had a leaking underground storage tank reported in 2001 and that a remediation was completed and submitted to Ecology in 2002. However, as of the date of this report, the site has not received an NFA determination from Ecology. ECI has not reviewed any other information regarding this site.

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2.0 PHYSICAL SETTING

Topographical, geological and hydrogeological conditions can often affect to some extent, the environmental integrity of a property. Underlying soil and bedrock formations may facilitate or impede the migration of chemical contaminants in groundwater, and may even be the source of contaminants such as radon and metals.

This section of the report summarizes the topography, geology and hydrogeology beneath the Subject Property and the surrounding areas. The physical setting information was obtained from ECI's observations during this investigation, from documents produced for other investigations in the area obtained by ECI, and from the Washington State Department of Natural Resources (DNR).

2.1 Geology/ Topography

The Subject Property is located within the Puget Sound Basin, which is classified as unconsolidated Pleistocene continental glacial drift. The glacial deposits predominantly consist of sand and silt, with varying amounts of gravel and cobbles (United States Geological Survey, 2005).

According to the EPA 2015 "Second Five-Year Review Report" for the Midway Landfill Superfund Site located approximately 0.6 miles to the south, the Subject Property is located near the crest of a narrow north-south trending glacier feature known as the Des Moines Drift Plain. This area, referred to as "upland" because of its location above adjacent valleys and sea level, is bordered by Puget Sound on the west and the Green River valley on the east.

Maximum elevations along the crest of the upland generally range from 400 to 450 feet above mean sea level. Puget Sound is at sea level, and the Green River valley floor typically averages about 30 feet above mean sea level. The United States Geological Survey (USGS) Des Moines, WA topographic map (2017), 7.5-minute quadrangle topographic map, shows that the Subject Property is situated at an elevation of approximately 398 feet above Mean Sea Level (MSL).

The upland area is cut with a number of steep-sided stream valleys. Adjacent to the Subject Property, the land surface is relatively flat across Highway 99 with a slight slope to the northwest. It then drops steeply downward approximately 200 feet towards Massey Creek approximately half a mile to the west-northwest.

To the east of the Subject Property the land surface rises slightly for approximately 400 feet and then slopes steeply downward to the east with an elevation change of approximately 300 feet, across some natural and manmade terraces towards the Green River approximately one mile east of the Subject Property. No significant water bodies were identified within one mile of the Subject Property.

The immediate area of the site is underlain by glacial drift consisting of alluvium, an alluvial terrace, and peat. These units were deposited during the Holocene and are characterized by mostly unconsolidated silt, sand, and gravelly valley fill with some clay, which includes low-level terrace, marsh, peat, artificial fill and glacial deposits. The soils encountered in ECIs borings were generally brown to light brown, dry, dense

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to very dense, coarse sandy silt with gravel. Boring Logs from this investigation are presented in Appendix C.

The Natural Resources Conservation Service (NRCS) Web Soil Survey describes the soils at the Subject Property as Alderwood. This soil is characterized as gravelly sandy loam, a class C soil with slow infiltration rates that is moderately well drained.

2.2 Hydrogeology

The primary aguifers in the Puget Sound region are typically overlain by relatively impermeable glacial till deposits, that are present at or near the ground surface. Within these till deposits are localized areas or lenses of water-bearing sands and gravels that may result in a shallow, localized, perched water table. Lateral and vertical migration of shallow groundwater may be impeded by the relatively impermeable nature of the till and by the sometimes-discontinuous nature of the perched water-bearing sands and gravel. The hydrogeology of the area is complex due to the topographic ridge in the area

According to the EPA 2015 "Second Five-Year Review Report" for the adjacent Midway Landfill Superfund Site, there is a shallow "Perched Aquifer" which was believed to represent shallow, discontinuous lenses of groundwater perched on low permeability deposits. EPA states that while this groundwater is shallow and discontinuous, it is not always perched. The majority of these shallow zones are found north of the Midway Landfill which includes the Subject Property. Based on a review of well logs in the Ecology online well log database, depth to a shallow aquifer is reported to be from 30 feet below ground surface (bgs) to over 100 feet bgs. Regionally, there are several deeper aquifers located several hundred feet bgs which are reported to flow to the south and southeast.

The shallow groundwater flow in the area is most likely controlled by the topography. Because of the depth to groundwater and topographic ridge upon which the Subject Property is located, the anticipated groundwater flow direction at the Subject Property may be divided between the east and the northwest. Groundwater migration pathways may also follow underground conduits.

3.0 REGULATORY COMPLIANCE AND CONTAMINANTS OF CONCERN

Regulatory compliance for this project is based on the Washington Administrative Code (WAC) 173-340 -Model Toxic Control Act (MTCA) - RCW Chapter 70.105D, implemented by the Washington State Department of Ecology. Pursuant to Chapter 70.105D RCW, Ecology has established procedures for developing cleanup levels and requirements for cleanup actions. The rules establishing these levels and requirements were developed by Ecology in consultation with a Science Advisory Board (established under the Act) and with representatives from local government, citizen, environmental, and business groups. The rules were first published in February 1991, with amendments in January 1996, February 2001, and October 2007.

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3.1 Contaminants of Concern & MTCA-A Cleanup Levels

3.1.1 Contaminants of Concern

Based on ECI's review of historical data, the primary contaminants of concern (COCs) at this Site are divided by area and include:

Area 1:

- Gasoline-range Organics (GRO)
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX)
- Diesel-Range Organics (DRO), and
- Heavy Oil-range Organics (ORO)

Area 2:

Volatile Organic Constituents (VOCs)
 (Primarily tetrachloroethylene also known as Perchloroethylene [PCE])

Area 3:

- Gasoline-range Organics (GRO)
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX)
- Diesel-Range Organics (DRO), and
- ➤ Heavy Oil-range Organics (ORO)

Ecology's WAC 173-340-900 Table 830-1 lists Secondary COC to be analyzed for if the primary COCs are detected above the laboratory reporting limits.

Those Secondary COCs include:

- Carcinogenic Poly-cyclic aromatic hydrocarbons (cPAHs), if DRO or ORO are detected,
- Halogenated Volatile organic compounds (HVOCs), if ORO is detected from waste oil,
- PCB Mixtures, if ORO is detected,
- The gasoline additives Methyl tert-butyl ether (MTBE) Ethylene dibromide (EDB) and 1,2-dichloroethane/ethylene dichloride (EDC), if GRO is detected, and
- Lead, if GRO is detected.

3.1.2 Cleanup Levels

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Pursuant to Chapter 70.105D RCW, Ecology has established procedures for developing cleanup levels and requirements for cleanup actions. The MTCA regulations provide three approaches for establishing cleanup levels:

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- Method A: ARARs and Tables. This method is to be used where the cleanup action is routine and involves relatively few hazardous substances. The soil and groundwater cleanup levels are set at concentrations at least as stringent as concentrations specified in applicable state and federal laws (ARARs) and are presented in Tables 720-1, 740-1, and 745-1 of the regulations (WAC 173-340).
- **Method B: Universal Method**. Method B is the "universal method" for determining cleanup levels for all media at all sites. Under Method B, cleanup levels for individual hazardous substances are established using applicable state and federal laws and the risk equations and other requirements specified in WAC 173-340.
 - Method B has two tiers, a "Standard" tier and a "Modified" tier. The "Standard" Method B tier uses generic default assumptions to calculate cleanup levels. The "Modified" Method B tier provides for the use of chemical-specific or site-specific information to change selected default assumptions. These can be established using a quantitative risk assessment process.
- Method C: Conditional Method. When compliance with cleanup levels developed under Method
 A or B are impossible to achieve or may cause greater environmental harm, Method C cleanup
 levels for individual hazardous substances may be established for surface water, groundwater,
 and air. Method C industrial soil and air cleanup levels may also be established at industrial
 properties that meet specific criteria.

Like Method B, Method C is divided into two tiers, a "Standard" and a "Modified" tier. The "Standard" Method C tier uses generic default assumptions to calculate cleanup levels. The "Modified" Method C tier provides for the use of chemical-specific or site-specific information to change selected default assumptions. These can be established using a quantitative risk assessment process.

For this Site ECI has determined that Method A cleanup levels are appropriate. There are a limited number of COCs in each area and any cleanup is routine should they be present. The MTCA Method A Soil Cleanup levels for the COCs at this Site are presented in the following table.

Table A: Cleanup Levels for the Constituents of Concern

Table 830-1 Constituent Method-A Soil Cleanup Levels for Unrestricted Land Use (MTCA Cleanup Regulation 173-340-900: Table 740-1)											
Contaminant of Concern (COCs) Soil Cleanup Levels (mg/kg)											
Primary Contaminants of Concern											
Gasoline Range Organics (GRO)	100/30 ¹										
Diesel Range Organics (DRO)	2,000										
Oil Range Organics (ORO)	2,000										

¹ Gasoline Range Organics in Soil: Gasoline mixtures without benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture has a soil CUL = 100 mg/kg. All other gasoline mixtures have a soil CUL = 30 mg/kg.

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Table 830-1 Constituent Method-A Soil Cl (MTCA Cleanup Regulation	-
Contaminant of Concern (COCs)	Soil Cleanup Levels (mg/kg)
Benzene	0.03
Ethylbenzene	6
Toluene	7
Total Xylenes	9
Tetrachloroethylene (PCE)	0.05
Secondary Contam	inants of Concern
cPAHs²	0.1
PCB Mixtures	1
EDB	0.005
EDC	
МТВЕ	0.1
Arsenic	20
Lead	250

4.0 FOCUSED SUBSURFACE INVESTIGATION

On November 20 and 21, 2017, ECI conducted a Focused Subsurface Investigation (FSI) at the Subject Property based on the approved proposals submitted on November 8, 2017. ECI installed twelve (12) borings on the Subject Property for the purposes of sampling the soil and groundwater (if encountered) beneath the Subject Property.

4.1 Limited Geophysical Survey & Utility Locating

Before mobilizing to the Site, ECI contacted the Washington Utility Locating Center to locate the public utilities in the area of the Subject Site. Prior beginning the borings, ECI's locating subcontractor, Mountain View Locating Services L.L.C. of Bonney Lake Washington, conducted a thorough non-invasive geophysical survey of the Subject Property, using electromagnetic survey techniques. The intent of the limited geophysical survey was to locate and trace subsurface utilities and other buried equipment and "clear" each boring location.

4.2 Soil Borings

Standard Environmental Probe of Tumwater, Washington advanced twelve (12) borings at the Site (Borings B1 through B10 and Borings B12 and B13) using a Geoprobe® drill rig and direct push drilling techniques under the supervision of an ECI environmental professional. The locations of the borings are

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² Total concentration as benzo(a)pyrene using the toxicity equivalency methodology in WAC 173-340-708 (8)

presented on Figure 3 in Appendix A. Six (6) borings were installed in Area 1, two (2) borings were installed in Area 2 and four (4) borings were installed in Area 3.

During drilling, each boring was logged by an ECI professional for lithology and the soils screened for evidence of contamination. The borings were advanced until the probe could not be driven further ("refusal"). The depths of the borings ranged from 7 to 12 feet bgs. The soils encountered in each boring were generally brown to light brown, dry to moist, dense to very dense, coarse sandy silt with gravel to the total depths drilled.

While some moist soils were present in the soil borings, groundwater was not encountered during this investigation. As previously mentioned, groundwater is estimated to be at depths of 30 to over 100 feet bgs. Boring logs for this investigation are presented in Appendix C.

4.3 **Sample Collection**

In each boring two to three samples were collected during drilling. Based on field screening, two samples from each boring analyzed for the respective COCs.

Sample Collection and Handling Procedures 4.3.1

At each sampling location, a two-inch diameter, four-foot long stainless-steel push-probe fitted with fourfoot long single-use (disposable) acetate liner was advanced. Relatively undisturbed soil samples were collected directly from the acetate liner extracted from the borings. Samples were transferred into new laboratory-provided analyte specific sample containers and assigned a unique sample ID; those collected for volatile organic compounds (VOCs) were collected using the EPA Method 5035 sampling procedures.

The samples were placed in a climate-controlled container and maintained at or below 4° Celsius until they were delivered to an Ecology accredited laboratory, Friedman & Bruya, Inc. of Seattle, Washington, under industry standard chain of custody protocol.

4.3.2 Sample Analyses

The laboratory analyzed each sample from the borings for the COCs specific to each area.

The analytical methods used are listed below:

Table B: Analyte and Analytical Method

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Analyte	Analytical Method
Gasoline Range Organics (GRO)	EPA Method 5035 / NWTPH-Gx
Diesel & Oil Range Organics (DRO & ORO)	NWTPH-Dx Extended
Chlorinated Polycyclic Aromatic Hydrocarbons (cPAHs)	EPA Method 8270D

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Volatile Organic Compounds (VOCs)	EPA Method 5035 / EPA Method 8260C
-----------------------------------	------------------------------------

4.4 Analytical Results

Upon receipt of the analytical results and laboratory reporting limits they were compared to the appropriate cleanup level. The analytical results of the samples analyzed revealed that:

- Area 1: The Area 2 COCs (GRO, BTEX, DRO and ORO) were not present above the laboratory reporting limits and the reporting limits were below the respective MTCA Method A CULs.
- Area 2: The Area 2 COCs (VOCs) were not present above the laboratory reporting limits and the reporting limits were below the respective MTCA Method A CULs.
- Area 3: In Area 3, the COCs (GRO, BTEX, DRO and ORO) were not present above the laboratory reporting limits and the reporting limits were below the respective MTCA Method A CULs in three (3) of the four (4) borings (Boring B9, B10, and B12).

In Boring B13, DRO was detected at a depth of 8 feet bgs (Sample B13-8') at a level of 8,800 mg/kg which is above the MTCA Method A cleanup level of 2,000 mg/kg. The laboratory also reported GRO at a level of 170 mg/kg, which is above the MTCA Method A cleanup level of 100 mg/kg. However, according to the laboratory, the GRO reported is not actually GRO but DRO. It is a result of an overlap of the DRO hydrocarbon range with the GRO hydrocarbon range.

Boring B13 is located along the southern property boundary approximately 38 feet south of the building and approximately 240 feet east of the corner of the former building footing (100 feet west of the centerline of 30th Avenue South) (Figure 3, Appendix A). The analytical results are presented in Table 1, Appendix B and the laboratory datasheets are presented in Appendix D.

Based on the location of the boring and the depth of the sample, it is believed that the DRO reported maybe from the adjacent property to the south, which has had a cleanup of DRO in 2002.

5.0 SUMMARY and RECOMMENDATIONS

5.1 Summary

This FSI Report was prepared at the request of Muscatel Midway Properties, LLC for a property located at 23418 Pacific Highway South Kent, Washington. The purpose of this FSI was to determine if soil and/or groundwater underlying the Property has been impacted by historical activities on the Subject Property or immediately adjacent properties. The investigatory activities were divided into three areas to specifically address potential impacts from the activities of concern identified. These areas are:

- Area 1: The area in the southwest portion of the property believed to be occupied by a former service station.
- Area 2: The area on the north side of the building in front of a former dry cleaners.

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 Area 3: The area along the southern property boundary with the adjacent property which had a leaking UST in 2002.

ECI installed twelve (12) borings on the Subject Property for the purposes of sampling the soil and groundwater (if encountered) beneath the Subject Property. The analytical results indicated that one of the borings contained DRO in soil at concentrations above the MTCA Method A Cleanup Levels. Groundwater was not encountered during this investigation.

Boring B13, advanced along the southern property boundary approximately 85 feet west of the southeast corner of the Subject Property was reported containing DRO at 8,800 mg/kg, ORO at 1,100 mg/kg and gasoline at 170 mg/kg each exceeding there applicable MTCA Method A cleanup level. It is our understanding that the southern adjacent property underwent a cleanup action in the early to mid-2000's. Based on the location of boring B13 and its proximity to the remediation work completed on the southern adjacent property, the contamination identified appears to be originating from the southern property.

5.2 Recommendations

ECI recommends that further investigation be performed to delineate the extent of the soil contamination on the Subject Property in the area of Boring B13. In addition, it is recommended that the owner of the adjacent property be notified.

Ecology also requires that:

"...Any owner or operator who has information that a hazardous substance has been released to the environment at the owner or operator's facility and may be a threat to human health or the environment shall report such information to the department within ninety days of discovery..." (WAC 173-340-300).

As required by this above regulatory citation, it is recommended that Ecology be notified of the findings of this investigation.

6.0 REFERENCES

King County Assessor-Treasurer, 2017: http://blue.kingcounty.com/Assessor/eRealProperty/

Washington State Department of Ecology, 2007, *Model Toxics Control Act Statute and Regulation, Publication No. 94-06*, November 2007.

Washington State Department of Ecology, 2017, Washington State Well Report Viewer: https://fortress.wa.gov/ecy/waterresources/map/WCLSWebMap/default.aspx

Washington State Department of Natural Resources, 2017, *Geologic Information Portal*: https://www.dnr.wa.gov/geologyportal

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Appendix A: Project Figures

Figure 1: Site Location Map Figure 2: Site Topographic Map Figure 3: Boring Location Map Figure 4: Site Photographs

Appendix B: Project Tables

Table 1-Area I Analytical Results Table 2-Area 2 Analytical Results Table 3-Area 3 Analytical Results

Appendix C: Project Boring Logs

Appendix D: Laboratory Data Sheets

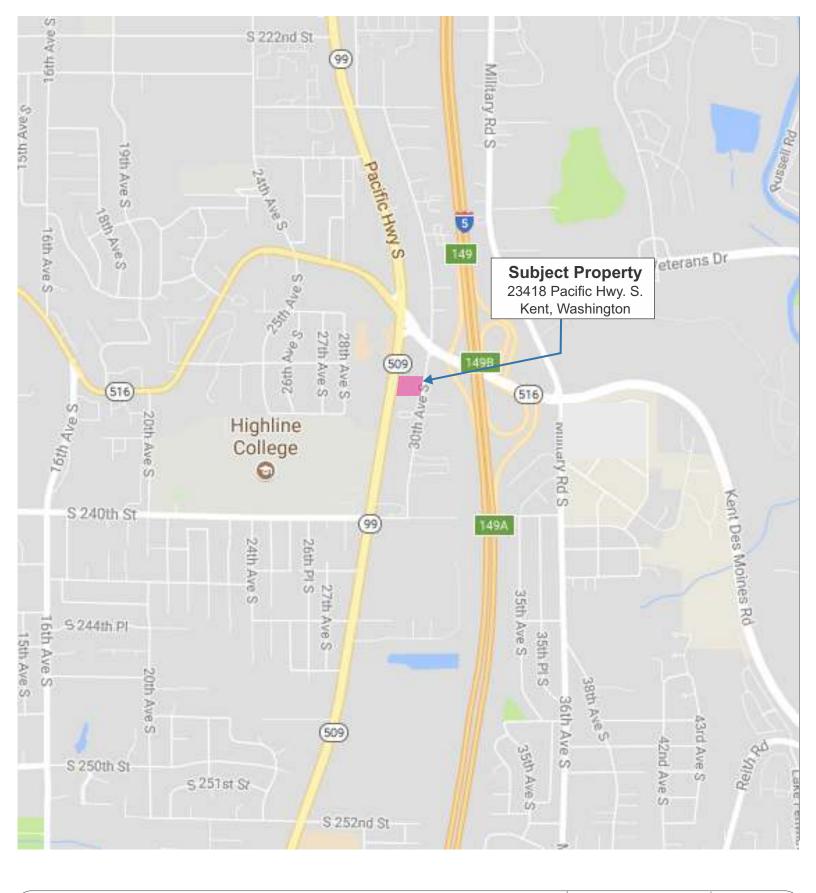


Appendix A: Project Figures

Figure 1: Site Location Map Figure 2: Site Topographic Map

Figure 3: Boring Location Map

Figure 4: Site Photographs





Vicinity Map

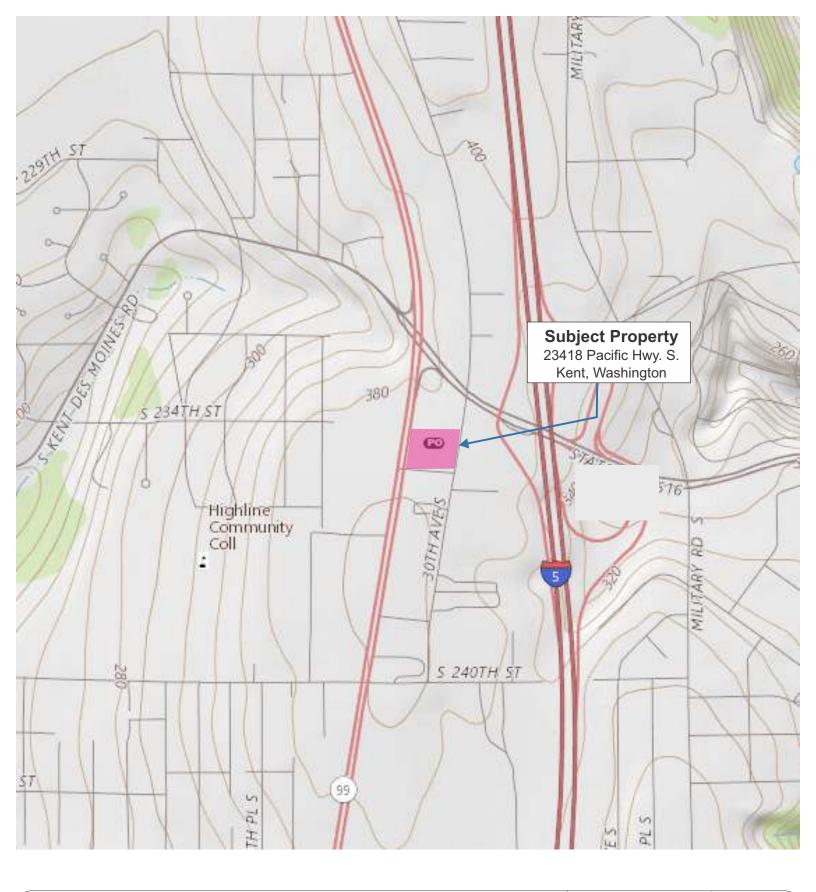
Focused Subsurface Investigation 23418 Pacific Highway S. Kent, Washington Date: December 8, 2017
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Reviewed By.: S. Spencer

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Topographic MapFocused Subsurface Investigation 23418 Pacific Highway S. Kent, Washington

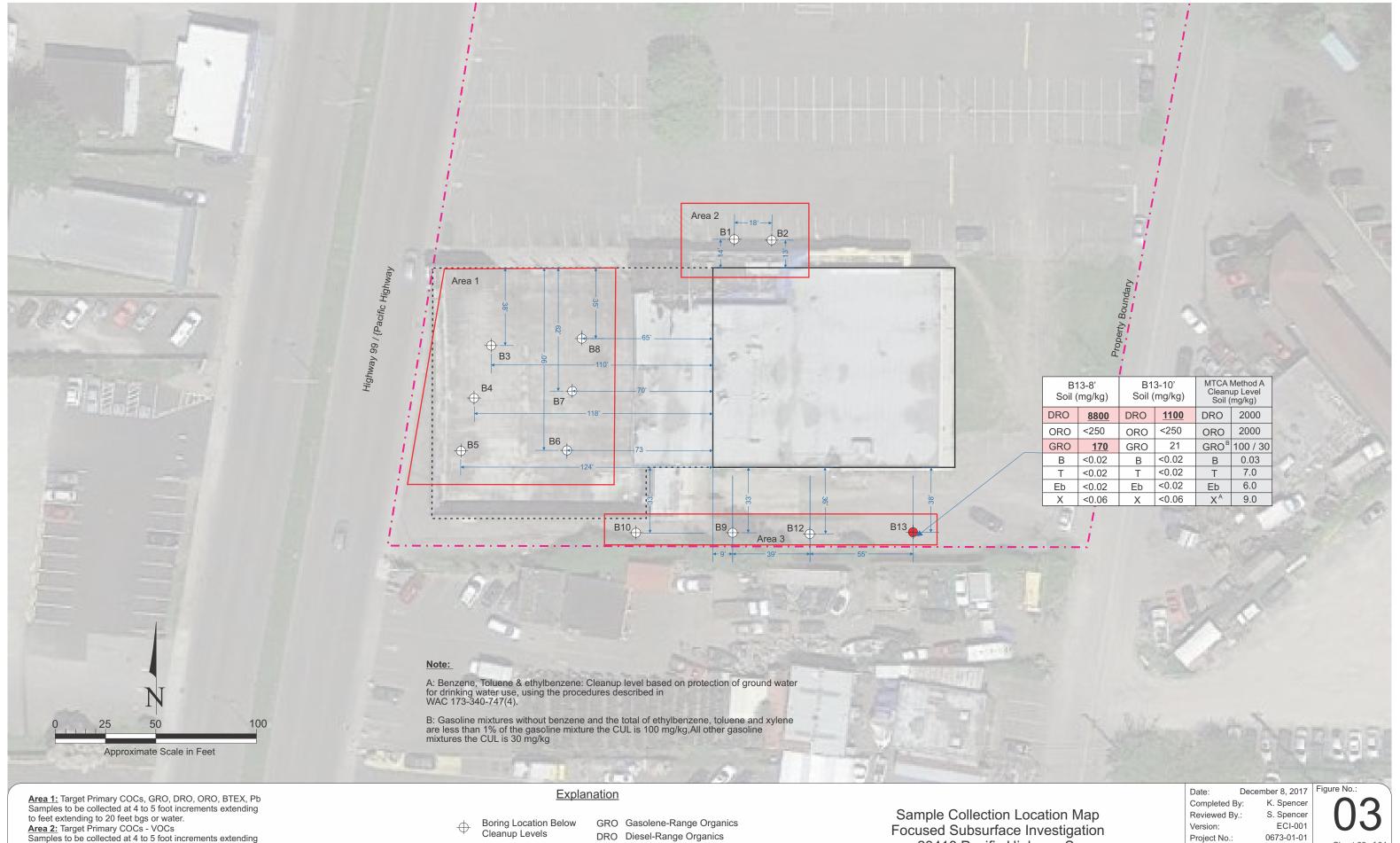
Date: December 8, 2017 Completed By: K. Spencer S. Spencer

Reviewed By.: ECI-001 Version: 0673-01-01 Project No.:

Figure No.:

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Samples to be collected at 4 to 5 foot increments extending to feet extending to 20 feet bgs or water.

Area 3: Target Primary COCs - GRO, DRO, ORO, VOCs

Samples to be collected at 4 to 5 foot increments extending to feet extending to 20 feet bgs or water.

Boring Location Above Cleanup Levels

DRO Diesel-Range Organics ORO Oil-Range Organic

BTEX Benzene, Toluene, Ethyl benzene, Xylenes

CUL Cleanup Level

23418 Pacific Highway S. Kent, Washington



Photograph One: Boring B13



Photograph Two: Boring B9



Photograph Three: Boring B6



Photograph Four: Boring B5



Photograph Five: Boring B8



Photograph Six: Boring B2

Project Photographs
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Table 1-Area I Analytical Results
Table 2-Area 2 Analytical Results
Table 3-Area 3 Analytical Results



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Sample		Total Petrol	eum Hydrocarb	ons (mg/kg)	Select Volatile Organic Compounds (mg/kg)						
Identification Number	Date Sampled	Diesel Range Organics	Oil Range Organics	Gasoline Range Organics	Benzene	Toluene	Ethylbenzene	Total Xylenes			
B3-5	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B3-12	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B4-5	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B4-11	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B5-5	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B5-7	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B6-5	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B6-10	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B7-5	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B7-12	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B8-5	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B8-12	11/20/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
MTCA Method A	Clean Up Levels	2,000	2,000	100/30¹	0.03	7	6	9			

Notes:

(mg/kg) = milligrams per kilogram

< Not detected above the specified laboratory reporting limit

Bold indicates a detected concentration below Ecology MTCA Method A cleanup levels

Bold indicates a detected concentration above Ecology MTCA Method A cleanup levels

23418 Pacific Highway South Kent, Washington 98032

Sample Identification Number	Date Sampled	Select Volatile Organic Compounds (mg/kg)										
		МТВЕ	EDC	EDB	Benzene	Toluene	Ethylbenzene	Total Xylenes				
B1-3	11/20/2017	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.05				
B1-11	11/20/2017	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.05				
B2-3	11/20/2017	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.05				
B2-11	11/20/2017	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.05				
MTCA Method A Clean Up Levels		0.1		0.050	0.03	7	6	9				

Notes:

(mg/kg) = milligrams per kilogram

< Not detected above the specified laboratory reporting limit

Bold indicates a detected concentration below Ecology MTCA Method A cleanup levels

Bold indicates a detected concentration above Ecology MTCA Method A cleanup levels

23418 Pacific Highway South Kent, Washington 98032

Sample		Total Petrol	eum Hydrocarb	ons (mg/kg)	Select Volatile Organic Compounds (mg/kg)						
Identification Number	Date Sampled	Diesel Range Organics	Oil Range Organics	Gasoline Range Organics	Benzene	Toluene	Ethylbenzene	Total Xylenes			
B9-7	11/21/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B9-10	11/21/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B10-7	11/21/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B10-10	11/21/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B12-7	11/21/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B12-10	11/21/2017	<50	<250	<5	<0.02	<0.02	<0.02	<0.06			
B13-8	11/21/2017	8,800	<250	170*	<0.02	<0.02	<0.02	<0.06			
B13-10	11/21/2017	1,100	<250	21	<0.02	<0.02	<0.02	<0.06			
MTCA Method A	Clean Up Levels	2,000	2,000	100/30¹	0.03	7	6	9			

Notes:

(mg/kg) = milligrams per kilogram

< Not detected above the specified laboratory reporting limit

Bold indicates a detected concentration below Ecology MTCA Method A cleanup levels

Bold indicates a detected concentration above Ecology MTCA Method A cleanup levels

^{*} Indicates that the GRO reported by the laboratory is due to overlap from a middle distillate such as heating oil or diesel

F	CI	Project: Focused Subsurface Investigation Location: 23418 Pacific Highway South, Kent Washington - Area 1							or	Boring ID:					
		chorage Taco			Location:	Washing	gton - Area 1		Proj	ect Number:	0673-	01-01			
					Client:	l	l Midway Properties			Unified Soil Class	ification Syst	em			
	ate Start/I		11/20/20	-	Drilling Me		Direct Push	S	GW GP	WELL-GRADED GRAV POORLY-GRADED GR	EL, FINE TO COAF				
	Logged		Kaden F		Auger ID/O			Æ SOI	GM GC	SILTY GRAVEL CLAYEY GRAVEL					
	Checked	-	David P		Borehole II	D/OD:	2 inches	HESI	SW	WELL-GRADED SAND POORLY-GRADED SA		SAND			
	Contrac	tor:	Standard	Environmental Probe	Sampler:		Macro Core 5	NON-COHESIVE SOILS	SM SC	SILTY SAND CLAYEY SAND	ND				
	Operate	or:	Chris Ro		Hammer W	/t./Fall:		Г	ML CL	SILT					
E	Boring Loc	ation:	See Fig	ure 3, Appendix A	Ground Ele	evation:		COHESIVE SOILS	OL MH	CLAY ORGANIC SILT, ORGA					
	Coordina	ites:			Water Dep	th:		SIVE	CH	SILT OF HIGH PLASTI CLAY OF HIGH PLAST	ICITY, FAT CLAY	Т			
	Weath	er:	Rain		Boring Dep	pth:	12 feet	SOHE	OH PT	ORGANIC CLAY, ORG PEAT					
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Description	n			Unified Classification	Graphical Representation			
1				No odor	1	Brown,	dry, dense, coarse, sandy silt w	vith (gravel		ML				
2															
3					_										
4				No odor		Brown, dry	y, very dense, coarse, sandy sil	t wit	h grav	vel	ML				
5	B3-5	10:40 AM	1												
6															
7					_										
8					_										
9	D0 10	40.50.414	.		_										
10	B3-10	10:50 AM		N	- X	D		41		L1_					
11	B3-12	11:00 AM		No odor	$\dashv \downarrow$	brown, dry	y, very dense, coarse, sandy sil	t Witi	II CODI	DIE	ML				
13	D3-12	11.00 AW	<u>'</u>		V	т	ermination of boring due to refu	ısəl							
14					-	·	ornination or borning add to role	Jour							
15															
16					1										
17					7										
18					_										
19															
20					_										
21															
22					_										
23															
24					_										
25					_										
26					4										
27					4										
28		-			4										
29		-	_		4										
30				i											

				1	Project: Focused Subsurface Investigation					ina ID.	B4	
E	CI	enviro	nment	al services	Location:		Pacific Highway South, Kent, gton - Area 1	P	Or —	ing ID:		
	And	horage Tac	oma Port	land	Client:		el Midway Properties	-	Proj	ect Number:	0673-	01-01
D	ate Start/l	Finish:	11/20/20)17	Drilling Me	thod:	Direct Push		GW	Unified Soil Class		
	Logged	Ву:	Kaden F	Reed	Auger ID/C	DD:		NON-COHESIVE SOILS	GP GM	POORLY-GRADED GR SILTY GRAVEL		102 0101122
	Checked	By:	David P	olivka	Borehole ID/OD: 2 inches					CLAYEY GRAVEL WELL-GRADED SAND,	FINE TO COARSI	E SAND
	Contrac	tor:	Standard	Environmental Probe	Sampler: Macro Core 5				SM	POORLY-GRADED SAN SILTY SAND		
	Operat	or:	Chris Ro	oss	Hammer W	/t./Fall:		NON	SC ML	CLAYEY SAND SILT		
E	Boring Loc	ation:	See Fig	ure 3, Appendix A	Ground Ele	evation:		SOILS	CL UL	CLAY ORGANIC SILT, ORGA	NIC CLAY	
	Coordina	ates:	Water Depth: Water Depth: Water Depth: When sult of high plastic CH CLAY OF HIGH PLASTIC								Т	
	Weath	er:	Rain		Boring De	pth:	11 feet	COHESIVE	OH PT	ORGANIC CLAY, ORGA PEAT	ANIC SILT	
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Description	n			Unified Classification	Graphical Representation
1				No odor	1	Brown,	dry, dense, coarse, sandy silt w	vith g	rave		ML	
2												
3			_		-							
5	B4-5	11:20 AM	. —	No odor		Grayish bro	own, dry, dense, coarse, silty sa	na w	ith gr	avei	SM	
6	D4-3	11.20 AIV	' 		_							
7												
8												
9												
10												
11	B4-11	11:35 AM	1		₩							
12			_			7	Termination of boring due to refu	usal				
13 14			_									
15			+									
16					1							
17]							
18												
19												
20					4							
21												
23					1							
24					1							
25					1							
26												
27					1							
28					4							
29												
30												
<u>Notes</u>	_											

F	CI	enviror	rment	al services vecocononline.com	Project:		Subsurface Investigation acific Highway South, Kent,	В	or	ing ID:	В	5			
L'		:horage Taco			Location:	Washing	gton - Area 1	_	<u>Proje</u>	ect Number:	0673-	01-01			
			_		Client:		l Midway Properties			Unified Soil Class	ification Syst	em			
D	ate Start/l		11/20/20		Drilling Me		Direct Push	S	GW GP	WELL-GRADED GRAV POORLY-GRADED GR	EL, FINE TO COAF				
	Logged		Kaden F		Auger ID/O			Æ SOII	GM GC	SILTY GRAVEL CLAYEY GRAVEL					
	Checked	Ву:	David P	olivka	Borehole II	D/OD:	2 inches	HESIV	SW	WELL-GRADED SAND, POORLY-GRADED SAI		SAND			
	Contrac	tor:	Standard	Environmental Probe	Sampler:		Macro Core 5	NON-COHESIVE SOILS	SM	SILTY SAND	SAND				
	Operate	or:	Chris Ro	oss	Hammer W	/t./Fall:		Ž	ML CL	CLAYEY SAND SILT					
E	Boring Loc	ation:	See Fig	ure 3, Appendix A	Ground Ele	evation:		SOILS	OL MH	CLAY ORGANIC SILT, ORGA					
	Coordina	ites:			Water Dep	th:		COHESIVE SOILS	СН	SILT OF HIGH PLASTIC CLAY OF HIGH PLAST	ICITY, FAT CLAY	Т			
	Weath	er:	Rain		Boring Dep	pth:	7 feet	COHE	OH PT	ORGANIC CLAY, ORGA PEAT	ANIC SILT				
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Description	n			Unified Classification	Graphical Representation			
1				No odor	1	Brown,	dry, dense, coarse, sandy silt w	/ith c	gravel		ML				
2															
3															
4															
5	B5-5	1:00 PM			-										
6		4.40.514		No odor		Brown, dr	y, very dense, coarse, sandy sil	t wit	h grav	rel	ML				
7	B5-7	1:10 PM	_		*		·	1							
9				<u>.</u>		ı	ermination of boring due to refu	ısaı							
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20			+												
21			+		_										
22			+												
24			+		-										
25															
26			+												
27															
28															
29															
											İ	I			

				1	Project:	Focused	d Subsurface Investigation	Boring ID:			В6	
E	CI	enviro	nment	al services v.ecocononline.com	Location:		Pacific Highway South, Kent, gton - Area 1		Or —	מו ing:		00
	And	horage Tac	oma Port	land	Client:		el Midway Properties	-	Proj	ect Number:	0673-	-01-01
D	ate Start/l	Finish:	11/20/20	017	Drilling Me		Direct Push		GW	Unified Soil Class WELL-GRADED GRAV		
	Logged	Ву:	Kaden F	Reed	Auger ID/C	D:		NON-COHESIVE SOILS	GP GM	POORLY-GRADED GR SILTY GRAVEL		10L 01111LL
	Checked	By:	David P	olivka	Borehole ID/OD: 2 inches					CLAYEY GRAVEL WELL-GRADED SAND	FINE TO COARSI	E SAND
	Contrac	tor:	Standard	Environmental Probe	Sampler: Macro Core 5				SM	POORLY-GRADED SAI SILTY SAND		
	Operat	or:	Chris Ro	oss	Hammer W	/t./Fall:		ÖN	SC ML	CLAYEY SAND SILT		
E	Boring Loc	ation:	See Fig	ure 3, Appendix A	Ground Ele	evation:		SOILS	NIC CLAY			
	Coordina	ates:			Water Dep	th:		SIVES	MH CH	SILT OF HIGH PLASTIC	ICITY, FAT CLAY	Т
	Weath	er:	Rain		Boring De	pth:	10 feet	COHESIVE	OH PT	ORGANIC CLAY, ORG. PEAT	ANIC SILT	
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Descriptio	n			Unified Classification	Graphical Representation
1				No odor	1	Brown,	dry, dense, coarse, sandy silt v	vith g	rave		ML	
2												
3												
4	D0.5	1.25 DM	_									
5 6	B6-5	1:35 PM	-		_							
7					_							
8												
9												
10	B6-10	1:40 PM			V							
11						٦	Termination of boring due to refu	usal				
12 13												
14												
15					1							
16												
17												
18					4							
19					4							
20					\dashv							
22					+							
23					1							
24]							
25												
26					4							
27					4							
28					-							
29 30					+							
Notes	•	L		<u> </u>	I						L	<u> </u>
,	_											

environmental services				al services	Project: Focused Subsurface Investigation 23418 Pacific Highway South, Kent			Boring ID: Project Number:			B7	
	www.ecocononline.com Anchorage Tacoma Portland		Location: Washington - Area 1 Client: Muscatel Midway Properties		0673-01-01							
	ate Start/l	Finiah.	11/20/20	247			Direct Push			Unified Soil Class	ification Syst	em
		_			Drilling Me			- S	GW GP	WELL-GRADED GRAV POORLY-GRADED GR		RSE GRAVEL
	Logged		Kaden F		Auger ID/O			NON-COHESIVE SOILS	GM GC	SILTY GRAVEL CLAYEY GRAVEL		
	Checked	-	David P		Borehole II	D/OD:	2 inches	HESI	SW	WELL-GRADED SAND POORLY-GRADED SA		SAND
	Contrac			Environmental Probe	Sampler:		Macro Core 5	ION-C	SM SC	SILTY SAND CLAYEY SAND	10	
	Operat		Chris Ro		Hammer W			Г	ML CL	SILT CLAY		
E	Boring Loc	ation:	See Fig	ure 3, Appendix A	Ground Ele			COHESIVE SOILS	OL MH	ORGANIC SILT, ORGA		-
	Coordina	ites:			Water Dep	th:		ESIVE	CH	CLAY OF HIGH PLAST	ICITY, FAT CLAY	1
	Weath	er:	Rain		Boring Dep	pth:	12 feet	00 H	PT	ORGANIC CLAY, ORG. PEAT	ANIC SILT	
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Description	n		Unified Classification	Graphical Representation	
1				No odor	1	Brown, o	dry, dense, coarse, sandy silt w	ith c	obble		ML	
2												
3												
4												
5	B7-5	2:10 PM										
6					_ X							
7				No odor	4	Light brow	/el	ML				
8												
9	B7-10	2:20 PM										
11	D7-10	2.2011			-							
12	B7-12	2:30 PM		No odor	⊣ }	Brown,	dry, dense, coarse, sandy silt w	vith o	gravel		ML	
13					•		ermination of boring due to refu					
14												
15												
16												
17												
18												
19					_							
20					_							
21					-							
22					-							
23		-			-							
25												
26												
27												
28												
29												
		t		i	_						1	I

				1	Project:	Focused	d Subsurface Investigation	D	- "	ina ID.		0	
environmental		al services	Location:	cation: 23418 Pacific Highway South, Kent, Washington - Area 1			Boring ID:		B8				
Anchorage Tacoma Portland			Client: Muscatel Midway Properties		Project Number:			0673-	01-01				
C	Date Start/I	Finish:	11/20/20)17	Drilling Me		Direct Push		GW	Unified Soil Class WELL-GRADED GRAV			
	Logged	By:	Kaden F	Reed	Auger ID/C	DD:		SOILS	GP GM	POORLY-GRADED GR SILTY GRAVEL		.02 0101122	
	Checked	I By:	David P	olivka	Borehole I	D/OD:	2 inches	NON-COHESIVE SOILS	GC SW	CLAYEY GRAVEL WELL-GRADED SAND	FINE TO COARSI	SAND	
	Contrac	tor:	Standard	Environmental Probe	Sampler: Macro Core 5		Macro Core 5	N-COH	SP SM	POORLY-GRADED SAI SILTY SAND	ND		
	Operat	or:	Chris Ro	oss	Hammer W	/t./Fall:		ON.	SC ML	CLAYEY SAND SILT			
E	Boring Loc	cation:	See Fig	ure 3, Appendix A	Ground Ele	evation:		SOILS	CL	CLAY ORGANIC SILT, ORGA	NIC CLAY		
	Coordina	ates:			Water Dep	th:		SIVES	CH	SILT OF HIGH PLASTIC CLAY OF HIGH PLAST	CITY, FAT CLAY	Т	
	Weath	er:	Rain		Boring De	pth:	12 feet	COHESIVE	OH PT	ORGANIC CLAY, ORGANIC PEAT	ANIC SILT		
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Descriptio	n			Unified Classification	Graphical Representation	
1				No odor		Dark brow	vn, dry, dense, coarse, sandy si	lt wit	h gra	vel	ML		
2													
3					_								
4		2.00 DM	_		_								
5 6	B8-5	3:00 PM	-		_								
7					-								
8													
9													
10	B8-10	3:10 PM											
11		0.45 514			4								
12 13	B8-12	3:15 PM			♦	7	Fermination of boring due to refu	ıcəl					
14						'	remination of boiling due to ret	usai					
15													
16													
17													
18													
19													
20					-								
22													
23													
24													
25													
26					_								
27													
28													
30					+								
Notes	<u>. </u>	I			I						<u> </u>		
	-												

## Contractor: Service Teconom Portland Color Color					1	Project:	Focused	Subsurface Investigation	D	ori.	na ID:	Р	1
Date Start/Finish: 11/20/2017 Drilling Methods: Direct Push Logad By: Kaden Reed Auger ID/OD:	L			Location:						B1			
Logged By: Kaden Reed Auger (DOD:	Anchorage Tacoma Portland		Client: Muscatel Midway Properties		Project Number:			0673-	01-01				
Checked By: David Politika Borehole ID/OD: 2 notes Sampler: Macro Core 5 Sampler: Sampler: Macro Core 5		Date Start/I	Finish:	11/20/20)17	Drilling Me	ethod:	Direct Push	L				
Checked By: David Politika Borehole ID/OD: 2 notes Sampler: Macro Core 5 Sampler: Sampler: Macro Core 5		Logged	Ву:	Kaden F	Reed	Auger ID/C	DD:		SOILS	GP	POORLY-GRADED GR		
Solid potation: Soe Figure 3. Appendix A South Elevation: -		Checked	Ву:	David Po	olivka	Borehole I	D/OD:	2 inches	ESIVE	sw		FINE TO COARS	E SAND
Solid potation: Soe Figure 3. Appendix A South Elevation: -		Contrac	tor:	Standard	Environmental Probe	Sampler:		Macro Core 5	N-CO-	SM		ND	
Sorial Coation See Figure 3, Appendix A Ground Elevation		Operate	or:	Chris Ro	oss	Hammer V	Vt./Fall:		2	ML	SILT		
March Park	E	Boring Loc	ation:	See Figu	ure 3, Appendix A	Ground El	evation:		SOILS	UL	ORGANIC SILT, ORGA		
Soil and Rock Description		Coordina	ites:			Water Dep	th:		ESIVE 8	CH	CLAY OF HIGH PLAST	ICITY, FAT CLAY	.T
No odor Brown, dry, dense, coarse, sandy silt with gravel ML		Weath	er:	Rain		Boring De	pth:	12 feet	SOH			ANIC SILT	
2	Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Descriptio	n			Unified Classification	Graphical Representation
3 B1-3 9:15 AM	1				No odor	1	Brown,	dry, dense, coarse, sandy silt v	vith gr	avel		ML	
4	2					_ ↓							
No odor Light brown, moist, dense, coarse, sandy silt with gravel ML		B1-3	9:15 AM		No odor		Dark brow	n, dry, dense, coarse, sandy si	ilt with	grave	el	ML	
6					No odor	-	Light brown	moist dansa saarsa sanduu	cilt wit	h ara	vol	MI	
Termination of boring due to refusal					NO Odol	=	LIGHT DIOWI	i, moist, derise, coarse, sandy s	SIIL WII	ii yia	vei	IVIL	
9		B1-7	9:20 AM			_							
10	8												
11 B1-11 9:25 AM	9												
Termination of boring due to refusal	10				No odor	∟ آ	ight brown,	wet*, very dense, coarse, sand	y silt v	vith g	ravel	ML	
Termination of boring due to refusal		B1-11	9:25 AM			_							
14	13					V	Т	ermination of boring due to refu	usal				
16	14							J					
17	15												
18	16												
19	17					4							
20	18					-							
21	20					1							
22	21					1							
24	22					1							
25	23												
26 27 28 29 30	24					_							
27	25		-			4							
28						+							
29 30 30 30 30 30 30 30 30 30 30 30 30 30	28					+							
30	29					1							
otes: * the wetness in the boring at 10 to 12 feet is attributed to surface water entring the boring during drilling.	30					1							
	otes	: * the wetr	ness in the b	oring at 1	0 to 12 feet is attrib	uted to surfa	ce water er	ntring the boring during drilling	ng.	_			

environmental services				al services	Project: Focused Subsurface Investigation 23418 Pacific Highway South, Kent			В	ori	ing ID:	B2		
	Anchorage Tacoma Portland		Washington - Area 2 Client: Muscatel Midway Properties		Project Number:			0673-01-01					
Г	Date Start/l	inich:	11/20/20	117	Drilling Me		Direct Push			Unified Soil Class			
								LS.	GW GP	WELL-GRADED GRAV POORLY-GRADED GR		RSE GRAVEL	
	Logged		Kaden F		Auger ID/O			NON-COHESIVE SOILS	GM GC	SILTY GRAVEL CLAYEY GRAVEL			
	Checked	-	David P		Borehole II	D/OD:	2 inches	CHESI	SW	WELL-GRADED SAND POORLY-GRADED SA		SAND	
	Contrac			Environmental Probe	Sampler:		Macro Core 5	ON-C	SM SC	SILTY SAND CLAYEY SAND	.5		
	Operate		Chris Ro		Hammer W	/t./Fall:			ML CL	SILT			
	Boring Loc	ation:	See Fig	ure 3, Appendix A	Ground Ele	evation:		COHESIVE SOILS	OL MH	CLAY ORGANIC SILT, ORGA			
	Coordina	ites:			Water Dep	th:		SIVE	СН	SILT OF HIGH PLASTIC CLAY OF HIGH PLAST	ICITY, FAT CLAY	ı	
	Weath	er:	Rain		Boring Dep	pth:	12 feet	COHE	OH PT	ORGANIC CLAY, ORG. PEAT	ANIC SILI		
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Description	n			Unified Classification	Graphical Representation	
1				No odor	1	Brown,	dry, dense, coarse, sandy silt w	/ith c	gravel		ML		
2					$\exists \downarrow$								
3	B2-3	9:40 AM		No odor	 ↑	Dark brow	n, dry, dense, coarse, sandy sil	t wit	h gra	/el	ML		
4					\Box								
5				No odor	↑	Light brow	n, dry, dense, coarse, sandy si	lt wit	h gra	/el	ML		
6													
7	B2-7	9:45 AM											
8													
9					J¥								
10				No odor	Gra	ayish brown,	moist, very dense, coarse, san	dy s	ilt witl	n gravel	ML		
11	B2-11	10:00 AM											
12					₩	_							
13						Т	ermination of boring due to refu	ısal					
14			_		_								
15					-								
16 17					-								
18					\dashv								
19					-								
20					1								
21					1								
22					1								
23					1								
24					1								
25					7								
26					1								
27					7								
28					1								
29					7								
30					7								

environmental services				al services	Project: Focused Subsurface Investigation 23418 Pacific Highway South, Kent,			Boring ID:			В9		
Anchorage Tacoma Portland		Washington - Area 3 Client: Muscatel Midway Properties		Project Number:			0673-01-01						
Г	ate Start/l	-inish·	11/21/20)17	Drilling Me		Direct Push			Unified Soil Class			
	Logged		Kaden F		Auger ID/O			SILS	GP	WELL-GRADED GRAV POORLY-GRADED GR		RSE GRAVEL	
	Checked		David P		Borehole II		2 inches	IVE SC	GC	SILTY GRAVEL CLAYEY GRAVEL			
	Contrac			Environmental Probe	Sampler:	D/OD.	Macro Core 5	NON-COHESIVE SOILS	SP	WELL-GRADED SAND, POORLY-GRADED SAI		SAND	
	Operate		Chris Ro		Hammer W	Vt /Fall:		NON-	SC	SILTY SAND CLAYEY SAND			
	Boring Loc			ure 3, Appendix A	Ground Ele			S	CL	SILT CLAY			
	Coordina			ure 3, Appendix A				COHESIVE SOILS	MH	ORGANIC SILT, ORGA SILT OF HIGH PLASTIC		Т	
			 Dain		Water Dep			HESIVI	CH	CLAY OF HIGH PLAST ORGANIC CLAY, ORGA	FICITY, FAT CLAY		
	Weath	er:	Rain		Boring Dep	ptn:	10 feet	8	PT	PEAT			
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Description	n		Unified Classification	Graphical Representation		
1				No odor		Dark brown	n, dry, dense, coarse, sandy sil	t wit	h grav	el	ML		
2													
3	B9-3	8:50 AM			- ¥								
4				No odor		Brown, o	dry, dense, coarse, sandy silt w	/ith c	gravel		ML		
5													
6		0.00 414											
7	B9-7	9:00 AM											
9													
10	B9-10	9:05 AM			-								
11					V	Te	ermination of boring due to refu	ısal					
12													
13													
14													
15													
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				1	Project:	Focused	d Subsurface Investigation	D	~ r	ina ID.	В	40
E	CI	enviror	nment	al services	Location:		Pacific Highway South, Kent, gton - Area 3	P	Or	ing ID:	D'	10
	And	horage Tac	oma Port	land	Client:		el Midway Properties	-	Proje	ect Number:	0673-01-01	
	Date Start/I	Finish:	11/21/20	017	Drilling Me		Direct Push		GW	Unified Soil Class		
	Logged	Ву:	Kaden F	Reed	Auger ID/C	DD:		SOILS	GP GM	POORLY-GRADED GR SILTY GRAVEL		
	Checked	By:	David P	olivka	Borehole I	rehole ID/OD: 2 inches GC CLAYEY GRAVEL WELL-GRADED SAND,					FINE TO COARSE	E SAND
	Contrac	tor:	Standard	Environmental Probe	Sampler:		GP POORLY-GRADED GRAVEL GM SILTY GRAVEL SW WELL-GRADED SAND, FINE TO C SP POORLY-GRADED SAND SILTY SAND SLITY SAND CLAYEY GRADED SAND SILTY SAND CLAYEY SAND					
	Operate	or:	Chris Ro	oss	Hammer W	/t./Fall:		SC CLAYEY SAND ML SILT				
	Boring Loc	ation:	See Fig	ure 3, Appendix A	Ground Ele	evation:		SOILS	Cl			
	Coordina	ates:			Water Dep	Water Depth: MH SILT OF HIGH PLASTICITY, ELASTIC CH CLAY OF HIGH PLASTICITY, EAT CL				CITY, ELASTIC SIL	Т	
	Weath	er:	Rain		Boring De	pth:	10 feet	COHESIVE	OH PT	ORGANIC CLAY, ORGA	ANIC SILT	
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Descriptio	n			Unified Classification	Graphical Representation
1				No odor	1	Brown, dry, dense, coarse, sandy silt with gravel						
2					_							
3	B10-3	9:35 AM			_							
4					_							
5 6					_							
7	B10-7	9:45 AM										
8												
9												
10	B10-10	9:50 AM			V							
11						٦	rermination of boring due to refu	usal				
12			_									
13 14												
15												
16			+		1							
17					1							
18												
19					_							
20												
21					4							
22		-			+							
24												
25					1							
26					1							
27												
28												
29					4							
30												
Notes	<u>i.</u>											

F		enviror	nment	al services v.ecocononline.com	Project: Location:	23418 Pa	Subsurface Investigation acific Highway South, Kent,	Boring ID:			B'	12
		horage Tacc			Client:		ton - Area 3 I Midway Properties	-	<u>Projec</u>	t Number:	0673-01-01	
г	ate Start/F	inieh·	11/21/20	n17	Drilling Me		Direct Push			nified Soil Class		
			Kaden F		Auger ID/O			ILS	GP P	'ELL-GRADED GRAV OORLY-GRADED GR		RSE GRAVEL
	Logged				_			VE SO	S GM SILTY GRAVEL GC CLAYEY GRAVEL			
	Checked		David P		Borehole II	D/OD:	2 inches	OHESI	GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE SP POORLY-GRADED SAND SILTY SAND SC CLAYEY SAND			SAND
	Contrac			Environmental Probe	Sampler:		Macro Core 5	NON-C	SM SILTY SAND SC CLAYEY SAND			
	Operate		Chris Ro		Hammer W			ML SILT				
E	Boring Loc			ure 3, Appendix A		Ground Elevation: 25 OL ORGANIC SILT, ORGANIC CLAY OL ORGANIC SILT, O				т		
	Coordina				Water Depth: End of the plasticity, Fat clay							
	Weathe	er:	Rain		Boring Dep	pth:	10 feet	8	_	EAT	1	
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks			Soil and Rock Description	n			Unified Classification	Graphical Representation
1				No odor	1	Brown, o	dry, dense, coarse, sandy silt w	ith c	obble		ML	
2												
3	B12-3	11:20 AM										
4												
5				No odor	4	Grayish brown, dry, dense, coarse, sandy silt with cobble						
6		44.00.444			_							
7	B12-7	11:30 AM			4							
9				No oder	- \$	Dark brown dry dones essere established by						
10	B12-10	11:35 AM		No odor	+	Dark brown, dry, dense, coarse, sandy silt with cobble					ML	
11	D12-10	11.00744			V	T	ermination of boring due to refu	usal				
12							J					
13												
14												
15												
16												
17												
18					_							
19					4							
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28					7							
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t/Finish: ed By: ed By: actor:			services cocononline.com	Location:		acific Highway South, Kent,	ВС	oring ID:	6	13
rt/Finish: ad By: ed By: actor: ator:	nchorage Tac				Washing	jton - Area 3	nt,			
ed By: ed By: actor: ator:		ma Portla	nd	Client:		I Midway Properties	<u>Pı</u>	roject Number:	0673-01-01	
ed By: actor: ator:	/Finish:	11/21/201	7	Drilling Me	thod:	Direct Push		Unified Soil Class WELL-GRADED GRAV		
actor: ator:	d By:	Kaden Re	ed	Auger ID/O	D:		SOILS	GP POORLY-GRADED GR GM SILTY GRAVEL		.02 0101122
ator:	d By:	David Poli	vka	Borehole II	Borehole ID/OD: 2 inches GC CLAYEY GRAVEL SW WELL-GRADED SA WELL-GRADED SA WELL-GRADED SA CLAYEY GRAVEL SW WELL-GRADED SA WELL-GRADED SA					SAND
	ctor:	Standard E	nvironmental Probe	Sampler:		Macro Core 5	× ×	SM SILTY SAND		
ocation:	itor:	Chris Ros	s	Hammer W	/t./Fall:		Ō _Z	SC CLAYEY SAND ML SILT		
	cation:	See Figure	e 3, Appendix A	Ground Ele	evation:		OILS	CL CLAY ORGANIC SILT, ORGA		
nates:	nates:			Water Dept	Water Depth: Whater				TICITY, ELASTIC SILT TICITY, FAT CLAY	
ther:	ner:	Rain		Boring Dep	oth:	10 feet	- H	OH ORGANIC CLAY, ORG. PT PEAT	ANIC SILT	
Time	Time	PID Reading	Remarks	Soil and Rock Description					Unified Classification	Graphical Representation
			No odor	1	Brown, dry, dense, coarse, sandy silt with cobble					
12:10 PM	12:10 PM	\perp		_						
		+		_						
		+		-						
		+		-						
12:20 PM	12:20 PM	1 1	Odor	 	Grayish brown, dry, dense, coarse, sandy silt with cobble					
12:30 PM	12:30 PM		No odor	1 ↓						
		\perp			Т	ermination of boring due to refu	ısal			
		+								
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 30, 2017

David Polivka, Project Manager EcoCon, Inc. 15 S. Oregon Ave, Suite 110 Tacoma. WA 98409

Dear Mr Polivka:

Included are the results from the testing of material submitted on November 22, 2017 from the Area 1, PO 0673-01-01, F&BI 711424 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Stephen Spencer

EMS1130R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 22, 2017 by Friedman & Bruya, Inc. from the EcoCon Area 1, PO 0673-01-01, F&BI 711424 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	EcoCon
711424 -01	B3-5
711424 -02	B3-10
711424 -03	B3-12
711424 -04	B4-5
711424 -05	B4-11
711424 -06	B5-5
711424 -07	B5-7
711424 -08	B6-5
711424 -09	B6-10
711424 -10	B7-5
711424 -11	B7-10
711424 -12	B7-12
711424 -13	B8-5
711424 -14	B8-10
711424 -15	B8-12

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/17 Date Received: 11/22/17

Project: Area 1, PO 0673-01-01, F&BI 711424

Date Extracted: 11/28/17 Date Analyzed: 11/28/17

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

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
B3-5 711424-01	< 0.02	<0.02	< 0.02	< 0.06	<5	91
B3-12 711424-03	< 0.02	< 0.02	<0.02	< 0.06	<5	94
B4-5 711424-04	< 0.02	< 0.02	<0.02	< 0.06	<5	90
B4-11 711424-05	< 0.02	< 0.02	<0.02	< 0.06	<5	92
B5-5 711424-06	< 0.02	< 0.02	< 0.02	< 0.06	<5	93
B5-7 711424-07	< 0.02	<0.02	< 0.02	< 0.06	<5	95
B6-5 711424-08	< 0.02	<0.02	< 0.02	< 0.06	<5	86
B6-10 711424-09	< 0.02	<0.02	< 0.02	< 0.06	<5	98
B7-5 711424-10	< 0.02	< 0.02	< 0.02	< 0.06	<5	98
B7-12 711424-12	< 0.02	< 0.02	< 0.02	< 0.06	<5	92
B8-5 711424-13	< 0.02	< 0.02	<0.02	< 0.06	<5	91

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/17 Date Received: 11/22/17

Project: Area 1, PO 0673-01-01, F&BI 711424

Date Extracted: 11/28/17 Date Analyzed: 11/28/17

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

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
B8-12 711424-15	<0.02	<0.02	<0.02	<0.06	<5	97
Method Blank 07-2631 MB	<0.02	<0.02	< 0.02	< 0.06	<5	102

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/17 Date Received: 11/22/17

Project: Area 1, PO 0673-01-01, F&BI 711424

Date Extracted: 11/28/17

Date Analyzed: 11/28/17 and 11/29/17

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

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
B3-5 711424-01	< 50	<250	115
B3-12 711424-03	< 50	<250	114
B4-5 711424-04	< 50	<250	114
B4-11 711424-05	< 50	<250	101
B5-5 711424-06	< 50	<250	111
B5-7 711424-07	< 50	<250	100
B6-5 711424-08	< 50	<250	117
B6-10 711424-09	< 50	<250	114
B7-5 711424-10	< 50	<250	110
B7-12 711424-12	< 50	<250	102
B8-5 711424-13	< 50	<250	105

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/17 Date Received: 11/22/17

Project: Area 1, PO 0673-01-01, F&BI 711424

Date Extracted: 11/28/17

Date Analyzed: 11/28/17 and 11/29/17

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

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
B8-12 711424-15	< 50	<250	102
Method Blank 07-2669 MB	<50	<250	99

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/17 Date Received: 11/22/17

Project: Area 1, PO 0673-01-01, F&BI 711424

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: 711444-02 (Duplicate)

			Duplicate	
	!	Sample Result	Result	RPD
Analyte	Reporting Units	(Wet Wt)	(Wet Wt)	(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	
	Spike	Recovery	Acceptance
Reporting Units	Level	LCS	Criteria
mg/kg (ppm)	0.5	100	69-120
mg/kg (ppm)	0.5	99	70-117
mg/kg (ppm)	0.5	102	65-123
mg/kg (ppm)	1.5	97	66-120
mg/kg (ppm)	20	95	71-131
	mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm)	Reporting Units Level mg/kg (ppm) 0.5 mg/kg (ppm) 0.5 mg/kg (ppm) 0.5 mg/kg (ppm) 1.5	Reporting Units Level LCS mg/kg (ppm) 0.5 100 mg/kg (ppm) 0.5 99 mg/kg (ppm) 0.5 102 mg/kg (ppm) 1.5 97

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/17 Date Received: 11/22/17

Project: Area 1, PO 0673-01-01, F&BI 711424

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

Laboratory Code: 711424-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	96	96	73-135	0

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting Units	Spike	Recovery	Acceptance
Analyte		Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	74-139

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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{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.
- $\mbox{\it ve}$ 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.

eived at 15 oc	Samples received at					Received by:	Ph. (206) 285-8282
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Notes	VOCs by 8260C SVOCs by 8270D PAHs 8270D SIM	TPH-HCID TPH-Diesel TPH-Gasoline BTEX by 8021B	Sample # of Type Jars	Time Sampled	Date Sampled	Lab ID	Sample ID
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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Phone Company_ City, State, ZIP Address リンジ Sample ID Email Relinquished by: Relinquished by: Received by: Received by \sim 7 2 $\overline{\zeta}$ Lab ID C.E. III SIGNATURE Sampled Date T G SAMPLE CHAIN OF CUSTODY がい SS 1710 38 Sampled Time SAMPLERS (signature PROJECT NAME REMARKS Sample Туре Jars PRINT NAME # of TPH-HCID > < \times TPH-Diesel \mathbf{x} × × TPH-Gasoline × × BTEX by 8021B ANALYSES REQUESTED VOCs by 8260C INVOICE TO SVOCs by 8270D PO# Samples received at 12 °C PAHs 8270D SIM COMPANY III E Other. ☐ Dispose after 30 days☐ Archive Samples Rush charges authorized by: Standard Turnaround

RUSH TURNAROUND TIME SAMPLE DISPOSAL DATE of | Notes 0 TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 4, 2017

David Polivka, Project Manager EcoCon, Inc. 15 S. Oregon Ave, Suite 110 Tacoma. WA 98409

Dear Mr Polivka:

Included are the results from the testing of material submitted on November 22, 2017 from the Area 2, PO 0673-01-01, F&BI 711425 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Stephen Spencer

EMS1204R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 22, 2017 by Friedman & Bruya, Inc. from the EcoCon Area 2, PO 0673-01-01, F&BI 711425 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	EcoCon
711425 -01	B1-3
711425 -02	B1-7
711425 -03	B1-11
711425 -04	B2-3
711425 -05	B2-7
711425 -06	B2-11

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: B1-3 Client: EcoCon

Date Received: 11/22/17 Project: Area 2, PO 0673-01-01, F&BI 711425

Date Extracted: 11/28/17 Lab ID: 711425-01 Data File: Date Analyzed: 11/28/17 112823.D Matrix: Instrument: GCMS4 Soil mg/kg (ppm) Dry Weight Units: Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	100	65	139

C	Concentration	Community des	Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	< 0.5	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	< 0.5	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	< 0.5	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: B1-11 Client: EcoCon

Date Received: 11/22/17 Project: Area 2, PO 0673-01-01, F&BI 711425

Date Extracted: 11/28/17 Lab ID: 711425-03 Data File: Date Analyzed: 11/28/17 112824.D Matrix: Instrument: GCMS4 Soil mg/kg (ppm) Dry Weight Units: Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	99	65	139

Compounds:mg/kg (ppm)Compounds:mg/kg (ppm)Dichlorodifluoromethane<0.51,3-Dichloropropane<0.05Chloromethane<0.5Tetrachloroethene<0.025Vinyl chloride<0.05Dibromochloromethane<0.05Bromomethane<0.51,2-Dibromoethane (EDB)<0.05
Chloromethane<0.5Tetrachloroethene<0.025Vinyl chloride<0.05
Vinyl chloride<0.05Dibromochloromethane<0.05Bromomethane<0.5
Bromomethane <0.5 1,2-Dibromoethane (EDB) <0.05
Chloroethane <0.5 Chlorobenzene <0.05
Trichlorofluoromethane <0.5 Ethylbenzene <0.05
Acetone <0.5 1,1,1,2-Tetrachloroethane <0.05
1,1-Dichloroethene <0.05 m,p-Xylene <0.1
Hexane <0.25 o-Xylene <0.05
Methylene chloride <0.5 Styrene <0.05
Methyl t-butyl ether (MTBE) <0.05 Isopropylbenzene <0.05
trans-1,2-Dichloroethene <0.05 Bromoform <0.05
1,1-Dichloroethane <0.05 n-Propylbenzene <0.05
2,2-Dichloropropane <0.05 Bromobenzene <0.05
cis-1,2-Dichloroethene <0.05 1,3,5-Trimethylbenzene <0.05
Chloroform <0.05 1,1,2,2-Tetrachloroethane <0.05
2-Butanone (MEK) <0.5 1,2,3-Trichloropropane <0.05
1,2-Dichloroethane (EDC) <0.05 2-Chlorotoluene <0.05
1,1,1-Trichloroethane <0.05 4-Chlorotoluene <0.05
1,1-Dichloropropene <0.05 tert-Butylbenzene <0.05
Carbon tetrachloride <0.05 1,2,4-Trimethylbenzene <0.05
Benzene <0.03 sec-Butylbenzene <0.05
Trichloroethene <0.02 p-Isopropyltoluene <0.05
1,2-Dichloropropane <0.05 1,3-Dichlorobenzene <0.05
Bromodichloromethane <0.05 1,4-Dichlorobenzene <0.05
Dibromomethane <0.05 1,2-Dichlorobenzene <0.05
4-Methyl-2-pentanone <0.5 1,2-Dibromo-3-chloropropane <0.5
cis-1,3-Dichloropropene <0.05 1,2,4-Trichlorobenzene <0.25
Toluene <0.05 Hexachlorobutadiene <0.25
trans-1,3-Dichloropropene <0.05 Naphthalene <0.05
1,1,2-Trichloroethane <0.05 1,2,3-Trichlorobenzene <0.25
2-Hexanone <0.5

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: B2-3 Client: EcoCon

Date Received: 11/22/17 Project: Area 2, PO 0673-01-01, F&BI 711425

Date Extracted: 11/28/17 Lab ID: 711425-04 Data File: Date Analyzed: 11/28/17 112825.D Matrix: Instrument: GCMS4 Soil mg/kg (ppm) Dry Weight Units: Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Compounds.	ing/kg (ppin)	Compounds.	ilig/kg (ppili)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	< 0.5	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	< 0.5	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	< 0.5	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: B2-11 Client: EcoCon

Date Received: 11/22/17 Project: Area 2, PO 0673-01-01, F&BI 711425

Date Extracted: 11/28/17 Lab ID: 711425-06 Data File: Date Analyzed: 11/28/17 112826.D Matrix: Instrument: GCMS4 Soil mg/kg (ppm) Dry Weight Units: Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	98	65	139

Commonada	Concentration	Commounder	Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	< 0.5	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	< 0.5	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	< 0.5	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank Client: EcoCon

Date Received: Not Applicable Project: Area 2, PO 0673-01-01, F&BI 711425

Date Extracted: 11/28/17 Lab ID: 07-2652 mb 11/28/17 Date Analyzed: Data File: 112808.D Matrix: Instrument: GCMS4 Soil mg/kg (ppm) Dry Weight Units: Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	100	65	139

Commonada	Concentration	Commounder	Concentration
Compounds:	mg/kg (ppm)	Compounds:	mg/kg (ppm)
Dichlorodifluoromethane	< 0.5	1,3-Dichloropropane	< 0.05
Chloromethane	< 0.5	Tetrachloroethene	< 0.025
Vinyl chloride	< 0.05	Dibromochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibromoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorobenzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylbenzene	< 0.05
Acetone	< 0.5	1,1,1,2-Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xylene	< 0.1
Hexane	< 0.25	o-Xylene	< 0.05
Methylene chloride	< 0.5	Styrene	< 0.05
Methyl t-butyl ether (MTBE)	< 0.05	Isopropylbenzene	< 0.05
trans-1,2-Dichloroethene	< 0.05	Bromoform	< 0.05
1,1-Dichloroethane	< 0.05	n-Propylbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobenzene	< 0.05
cis-1,2-Dichloroethene	< 0.05	1,3,5-Trimethylbenzene	< 0.05
Chloroform	< 0.05	1,1,2,2-Tetrachloroethane	< 0.05
2-Butanone (MEK)	< 0.5	1,2,3-Trichloropropane	< 0.05
1,2-Dichloroethane (EDC)	< 0.05	2-Chlorotoluene	< 0.05
1,1,1-Trichloroethane	< 0.05	4-Chlorotoluene	< 0.05
1,1-Dichloropropene	< 0.05	tert-Butylbenzene	< 0.05
Carbon tetrachloride	< 0.05	1,2,4-Trimethylbenzene	< 0.05
Benzene	< 0.03	sec-Butylbenzene	< 0.05
Trichloroethene	< 0.02	p-Isopropyltoluene	< 0.05
1,2-Dichloropropane	< 0.05	1,3-Dichlorobenzene	< 0.05
Bromodichloromethane	< 0.05	1,4-Dichlorobenzene	< 0.05
Dibromomethane	< 0.05	1,2-Dichlorobenzene	< 0.05
4-Methyl-2-pentanone	< 0.5	1,2-Dibromo-3-chloropropane	< 0.5
cis-1,3-Dichloropropene	< 0.05	1,2,4-Trichlorobenzene	< 0.25
Toluene	< 0.05	Hexachlorobutadiene	< 0.25
trans-1,3-Dichloropropene	< 0.05	Naphthalene	< 0.05
1,1,2-Trichloroethane	< 0.05	1,2,3-Trichlorobenzene	< 0.25
2-Hexanone	< 0.5		

ENVIRONMENTAL CHEMISTS

Date of Report: 12/04/17 Date Received: 11/22/17

Project: Area 2, PO 0673-01-01, F&BI 711425

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

Laboratory Code: 711427-01 (Matrix Spike)

·	-		Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.5	23	24	10-142	4
Chloromethane	mg/kg (ppm)	2.5	< 0.5	46	46	10-126	0
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	48	48	10-138	0
Bromomethane Chloroethane	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.5 <0.5	59 57	61 58	10-163 10-176	3 2
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	55	55	10-176	0
Acetone	mg/kg (ppm)	12.5	< 0.5	80	80	10-163	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	64	63	10-160	2
Hexane	mg/kg (ppm)	2.5	< 0.25	58	56	10-137	4
Methylene chloride	mg/kg (ppm)	2.5	< 0.5	76	74	10-156	3
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5 2.5	<0.05 <0.05	76 71	75 69	21-145	1 3
trans-1,2-Dichloroethene 1,1-Dichloroethane	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05 <0.05	71 75	69 75	14-137 19-140	0
2,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	83	82	10-158	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	77	77	25-135	0
Chloroform	mg/kg (ppm)	2.5	< 0.05	78	77	21-145	1
2-Butanone (MEK)	mg/kg (ppm)	12.5	< 0.5	83	83	19-147	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	77	76	12-160	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	78	77	10-156	1
1,1-Dichloropropene Carbon tetrachloride	mg/kg (ppm)	2.5 2.5	<0.05 <0.05	75 79	73 78	17-140 9-164	3 1
Benzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.03	79 75	78 75	9-164 29-129	0
Trichloroethene	mg/kg (ppm)	2.5	<0.02	77	76	21-139	1
1,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	78	78	30-135	0
Bromodichloromethane	mg/kg (ppm)	2.5	< 0.05	80	82	23-155	2
Dibromomethane	mg/kg (ppm)	2.5	< 0.05	78	79	23-145	1
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	< 0.5	80	84	24-155	5
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	82	82	28-144	0
Toluene trans-1,3-Dichloropropene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05 <0.05	79 84	80 84	35-130 26-149	1 0
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	82	82	10-205	0
2-Hexanone	mg/kg (ppm)	12.5	< 0.5	80	82	15-166	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	81	81	31-137	0
Tetrachloroethene	mg/kg (ppm)	2.5	0.070	76	76	20-133	0
Dibromochloromethane	mg/kg (ppm)	2.5	< 0.05	84	85	28-150	1
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	< 0.05	82	84	28-142	2
Chlorobenzene Ethylbenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05 <0.05	80 81	81 82	32-129 32-137	1 1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	< 0.05	86	85	31-143	1
m,p-Xylene	mg/kg (ppm)	5	< 0.1	81	82	34-136	i
o-Xylene	mg/kg (ppm)	2.5	< 0.05	80	82	33-134	2
Styrene	mg/kg (ppm)	2.5	< 0.05	83	84	35-137	1
Isopropylbenzene	mg/kg (ppm)	2.5	< 0.05	84	85	31-142	1
Bromoform	mg/kg (ppm)	2.5	< 0.05	85 82	84 83	21-156 23-146	1
n-Propylbenzene Bromobenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05 <0.05	82 82	83	23-146 34-130	1
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	< 0.05	83	84	18-149	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	< 0.05	81	82	28-140	i
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	< 0.05	79	81	25-144	2
2-Chlorotoluene	mg/kg (ppm)	2.5	< 0.05	82	83	31-134	1
4-Chlorotoluene	mg/kg (ppm)	2.5	< 0.05	81	82	31-136	1
tert-Butylbenzene 1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5 2.5	<0.05 <0.05	84 81	84 82	30-137 10-182	0
sec-Butylbenzene	mg/kg (ppm) mg/kg (ppm)	2.5	< 0.05	84	85	23-145	1 1
p-Isopropyltoluene	mg/kg (ppm)	2.5	< 0.05	84	84	21-149	0
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	85	84	30-131	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	81	82	29-129	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	83	83	31-132	0
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	< 0.5	91	88	11-161	3
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	< 0.25	86	86	22-142	0
Hexachlorobutadiene Naphthalene	mg/kg (ppm)	2.5 2.5	<0.25 <0.05	86 84	87 84	10-142 14-157	1 0
1,2,3-Trichlorobenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05 <0.25	84 87	84 88	20-144	1
1,m,o 11101101011ECIIC	8/1/2 (PP.II)	N.0	~0.NO	0,	00	20 111	•

ENVIRONMENTAL CHEMISTS

Date of Report: 12/04/17 Date Received: 11/22/17

Project: Area 2, PO 0673-01-01, F&BI 711425

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

Laboratory Code: Laboratory Control Sample

	-		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	49	10-146
Chloromethane Vinyl chloride	mg/kg (ppm)	2.5 2.5	62 69	27-133 22-139
Bromomethane	mg/kg (ppm) mg/kg (ppm)	2.5	75	38-114
Chloroethane	mg/kg (ppm)	2.5	73 74	10-163
Trichlorofluoromethane	mg/kg (ppm)	2.5	77	10-196
Acetone	mg/kg (ppm)	12.5	94	52-141
1,1-Dichloroethene	mg/kg (ppm)	2.5	79	47-128
Hexane	mg/kg (ppm)	2.5	83 86	43-142
Methylene chloride Methyl t-butyl ether (MTBE)	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	85	42-132 60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	82	67-127
1,1-Dichloroethane	mg/kg (ppm)	2.5	87	68-115
2,2-Dichloropropane	mg/kg (ppm)	2.5	102	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	72-113
Chloroform	mg/kg (ppm)	2.5	87	66-120
2-Butanone (MEK)	mg/kg (ppm)	12.5	92	57-123
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	86	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5 2.5	90 86	62-131
1,1-Dichloropropene Carbon tetrachloride	mg/kg (ppm) mg/kg (ppm)	2.5	92	69-128 60-139
Benzene	mg/kg (ppm)	2.5	85	68-114
Trichloroethene	mg/kg (ppm)	2.5	87	64-117
1,2-Dichloropropane	mg/kg (ppm)	2.5	88	72-127
Bromodichloromethane	mg/kg (ppm)	2.5	90	72-130
Dibromomethane	mg/kg (ppm)	2.5	87	70-120
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	92	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	93	75-136
Toluene trans-1,3-Dichloropropene	mg/kg (ppm)	2.5 2.5	89 97	66-126 72-132
1,1,2-Trichloroethane	mg/kg (ppm) mg/kg (ppm)	2.5	93	75-132 75-113
2-Hexanone	mg/kg (ppm)	12.5	93	33-152
1,3-Dichloropropane	mg/kg (ppm)	2.5	90	72-130
Tetrachloroethene	mg/kg (ppm)	2.5	90	72-114
Dibromochloromethane	mg/kg (ppm)	2.5	95	74-125
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	93	74-132
Chlorobenzene	mg/kg (ppm)	2.5	90	76-111
Ethylbenzene	mg/kg (ppm)	2.5 2.5	91 98	64-123
1,1,1,2-Tetrachloroethane m,p-Xylene	mg/kg (ppm) mg/kg (ppm)	2.5 5	98 91	69-135 78-122
o-Xylene	mg/kg (ppm)	2.5	90	77-124
Styrene	mg/kg (ppm)	2.5	93	74-126
Isopropylbenzene	mg/kg (ppm)	2.5	95	76-127
Bromoform	mg/kg (ppm)	2.5	97	56-132
n-Propylbenzene	mg/kg (ppm)	2.5	91	74-124
Bromobenzene	mg/kg (ppm)	2.5	91	72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5 2.5	93 89	76-126
1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	88	56-143 61-137
2-Chlorotoluene	mg/kg (ppm)	2.5	90	74-121
4-Chlorotoluene	mg/kg (ppm)	2.5	89	75-122
tert-Butylbenzene	mg/kg (ppm)	2.5	92	73-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	90	76-125
sec-Butylbenzene	mg/kg (ppm)	2.5	93	71-130
p-Isopropyltoluene	mg/kg (ppm)	2.5	93	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	93	75-121
1,4-Dichlorobenzene	mg/kg (ppm)	2.5 2.5	89	74-117
1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5 2.5	92 100	76-121 58-138
1,2,4-Trichlorobenzene	mg/kg (ppm) mg/kg (ppm)	2.5	95	64-135
Hexachlorobutadiene	mg/kg (ppm)	2.5	97	50-153
Naphthalene	mg/kg (ppm)	2.5	91	63-140
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	94	63-138

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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{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	Friedman & Bruya, Inc. 3012 16 th Avenue West		11-23	82-7	交ぶ	3	81-7	2	Sample ID		City, State, ZIP	Report To	Sth11t
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		How							Ţ	Sample Type		£ 3	T NAME	CHAIN
	(NH	100	PRINT NAME	4						TPH-HCID TPH-Diesel		D. KI		SAMPLE CHAIN OF CUSTODY
			Ŋ	1		E	%		286	TPH-Gasoline BTEX by 8021B VOCs by 8260C SVOCs by 8270D	ANALYSES	INVOICE TO	P0#)Y Y
Samples received at	3	52	COMPANY	×		×	×		×	PAHs 8270D SIM	ANALYSES REQUESTED			1E 11/22,
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 7, 2017

David Polivka, Project Manager EcoCon, Inc. 15 S. Oregon Ave, Suite 110 Tacoma. WA 98409

Dear Mr Polivka:

Included is the amended report from the testing of material submitted on November 22, 2017 from the Area 3, PO 0673-01-01, F&BI 711426 project. Per your request, a description of the material detected in the samples has been added to the case narrative.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Stephen Spencer

EMS1201R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 1, 2017

David Polivka, Project Manager EcoCon, Inc. 15 S. Oregon Ave, Suite 110 Tacoma. WA 98409

Dear Mr Polivka:

Included are the results from the testing of material submitted on November 22, 2017 from the Area 3, PO 0673-01-01, F&BI 711426 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Stephen Spencer

EMS1201R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 22, 2017 by Friedman & Bruya, Inc. from the EcoCon Area 3, PO 0673-01-01, F&BI 711426 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	EcoCon
711426 -01	B9-3
711426 -02	B9-7
711426 -03	B9-10
711426 -04	B10-3
711426 -05	B10-7
711426 -06	B10-10
711426 -07	B12-3
711426 -08	B12-7
711426 -09	B12-10
711426 -10	B13-3
711426 -11	B13-8
711426 -12	B13-10

The detection in the NWTPH-Gx range of samples B13-8 and B13-10 is due to overlap from a middle distillate such as heating oil or diesel. The data were flagged accordingly.

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/17 Date Received: 11/22/17

Project: Area 3, PO 0673-01-01, F&BI 711426

Date Extracted: 11/28/17 Date Analyzed: 11/29/17

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

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
B9-7 711426-02	< 0.02	< 0.02	< 0.02	< 0.06	<5	90
B9-10 711426-03	<0.02	< 0.02	< 0.02	< 0.06	<5	95
B10-7 711426-05	<0.02	< 0.02	< 0.02	< 0.06	<5	86
B10-10 711426-06	< 0.02	< 0.02	< 0.02	< 0.06	<5	93
B12-7 711426-08	< 0.02	< 0.02	< 0.02	< 0.06	<5	90
B12-10 711426-09	< 0.02	< 0.02	< 0.02	< 0.06	<5	90
B13-8 711426-11	< 0.02	< 0.02	< 0.02	< 0.06	170 x	92
B13-10 711426-12	<0.02	<0.02	< 0.02	<0.06	21 x	97
Method Blank 07-2633 MB	<0.02	<0.02	<0.02	<0.06	<5	99

ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/17 Date Received: 11/22/17

Project: Area 3, PO 0673-01-01, F&BI 711426

Date Extracted: 11/28/17 Date Analyzed: 11/28/17

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

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
B9-7 711426-02	< 50	<250	105
B9-10 711426-03	< 50	<250	112
B10-7 711426-05	< 50	<250	100
B10-10 711426-06	< 50	<250	103
B12-7 711426-08	< 50	<250	107
B12-10 711426-09	< 50	<250	102
B13-8 711426-11	8,800	<250	120
B13-10 711426-12	1,100	<250	102
Method Blank 07-2669 MB	<50	<250	99

ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/17 Date Received: 11/22/17

Project: Area 3, PO 0673-01-01, F&BI 711426

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: 711426-02 (Duplicate)

-			Duplicate	
		Sample Result	Result	RPD
Analyte	Reporting Units	(Wet Wt)	(Wet Wt)	(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	
		Spike	Recovery	Acceptance
Analyte	Reporting Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	98	69-120
Toluene	mg/kg (ppm)	0.5	97	70-117
Ethylbenzene	mg/kg (ppm)	0.5	100	65-123
Xylenes	mg/kg (ppm)	1.5	95	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/17 Date Received: 11/22/17

Project: Area 3, PO 0673-01-01, F&BI 711426

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

Laboratory Code: 711424-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	96	96	73-135	0

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting Units	Spike	Recovery	Acceptance
Analyte		Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	74-139

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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{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.
- $\mbox{\it ve}$ 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. Phone_ Company_____ ででくり City, State, ZIP Tox Tal Address 70 Box 310-3 **59-10** なに、これ Sample ID Received by: Received by: Relinquished by Relinquished by: $\overline{\circ}$ 0 9 9 6 0 Lab ID A COMPANY SIGNATURE Sampled 34 0935 SAMPLE CHAIN OF CUSTODY Time Sampled 25 200 i i Ĝ REMARKS PROJECT NAME SAMPLERS チタい Sample Jars TPH-HCID X × × × \times TPH-Diesel $\overline{\times}$ $\frac{\times}{\times}$ X X X TPH-Gasoline X X × × ANALYSES REQUESTED 067}-01-0[m VOCs by 8260CINVOICE TO SVOCs by 8270D PO# PAHs 8270D SIM Samples received at COMPANY ME T ☐ Dispose after 30 days
☐ Archive Samples □ Other_ D RUSH 1/20/12 Rush charges authorized by: Standard Turnaround SAMPLE DISPOSAL TORNAROUND TIME DATE X-120.DP 11/22/17 Notes 7 TIME

Company & L Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Phone_ City, State, ZIP. Report To Rid Silver Trapes York SAMPLERS (signate Sample ID _Email Relinquished by: Received by: Received by: Relinquished by Lab ID ~ SIGNATURE Sampled きにいり Time Sampled SAMPLE CHAIN OF CUSTODY REMARKS PROJECT NAME Sample Jars PRINT NAME 000 TPH-HCID × TPH-Diesel TPH-Gasoline BTEX by 8021B ANALYSES REQUESTED 0673-01-01 VOCs by 8260C INVOICE TO SVOCs by 8270D PO# TI PAHs 8270D SIM Camples received at COMPANY □ Other_ ☐ Dispose after 30 days☐ Archive Samples Standard Turnaround SAMPLE DISPOSAL TURNAROUND TIME Notes 2207 000 TIME