

November 24, 2021

Mr. Brett Olson
2317 Broadway Avenue
Everett, Washington 98201

**Subject: Limited Site Assessment Report
Former Alfy's Pizza
2317 Broadway Avenue
Everett, Washington 98201**

Dear Mr. Olson:

In accordance with your request, Puget Environmental, PLLC (Puget) has prepared this report presenting results of soil and groundwater sampling activities at the site referenced above. The investigation was conducted to evaluate subsurface conditions in the area of a reported former gasoline service station at the southwestern portion of the property.

BACKGROUND

The site consists of an approximately 0.69-acre commercial property occupied by a vacant former Alfy's Pizza building. The site location is shown on Figure 1.

Results of Phase I investigation activities conducted by a prior consultant indicate the southern portion of the site was previously occupied by a gasoline service station. In October 2021, an exploratory excavation advanced by Envirotank, LLC of Camano Island, Washington reportedly identified an existing UST at the southwestern portion of the site. Approximate locations of the UST and reported prior service station features are shown on Figure 2.

SOIL AND GROUNDWATER SAMPLING ACTIVITIES

On October 26, 2021, Puget visited the site and advanced a total of 4 borings (P-1 through P-4) to evaluate subsurface conditions. Borings were advanced to approximately 16 to 20 feet below ground surface (bgs) using truck-mounted direct-push sampling equipment. Boring locations are shown on Figure 3.

Soil encountered generally consisted of damp, bluish-gray silty clay to clayey silt to the maximum depth explored of approximately 20 feet bgs. Saturated conditions were encountered at approximately 10 feet bgs in boring P-1. Additional information is provided in the attached boring logs.

Soil from each boring was examined by a geologist and screened for indications of volatile compounds and petroleum hydrocarbons using a photoionization detector. Select soil samples from each boring were transferred into laboratory-supplied containers and placed into an iced cooler pending transport to the analytical laboratory.

Following the completion of soil sampling, a temporary groundwater monitoring well was constructed by placing slotted and blank 1-inch-diameter PVC well casing into the open borehole of P-1 to allow potential accumulation of groundwater. Following placement of the casing, the temporary well was allowed to recharge for approximately 1 hour. Following the recharge of the temporary well, a groundwater sample (W-1) was collected using a disposable bailer, transferred into laboratory-supplied containers and placed into an iced cooler pending transport to the analytical laboratory. Following the collection of groundwater sample W-1, the well casing was removed and the borehole backfilled with bentonite.

LABORATORY ANALYSIS AND RESULTS

Laboratory Analysis

Soil and groundwater samples were transported to the Friedman & Bruya Inc., laboratory in Seattle, Washington for analysis. Select samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) using Washington State Department of Ecology (Ecology) Method NWTPH-Gx, total petroleum hydrocarbons as diesel (TPH-D) and as oil (TPH-O) using Ecology Method NWTPH-Dx; Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX) using EPA Method 8021B; polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8270E; and volatile organic compounds (VOCs) using EPA Method 8260D.

Soil Sample Results

Laboratory results indicate sample P1-15, collected approximately 15 feet bgs from boring P-1 near the existing UST contained TPH-G and total xylenes concentrations exceeding the Model Toxics Control Act (MTCA) Method A cleanup levels.

Laboratory results indicate sample P3-5, collected approximately 5 feet bgs from boring P-1 in the area of the reported former gas pumps and canopy island location contained

TPH-G, TPH-D, TPH-O and carcinogenic PAH concentrations exceeding the MTCA Method A or B cleanup level.

Laboratory results indicate sample P4-8, collected approximately 8 feet bgs from boring P-4 in the area of the reported former station building contained TPH-G and benzene concentrations exceeding the MTCA Method A cleanup levels.

No other analyte concentrations exceeding the MTCA Method A or B cleanup levels were identified in any of the samples analyzed. Soil sample results are shown on Table 1. Copies of the official laboratory report and chain of custody documentation are attached.

Groundwater Sample Results

Laboratory results indicate sample W-1, collected from boring P-1 near the existing UST contained TPH-G, TPH-D, TPH-O and carcinogenic PAH concentrations exceeding the MTCA Method A or B cleanup level. The laboratory also reported one or more VOCs at concentrations exceeding their respective Method B cleanup levels, but the results were flagged as being due to laboratory contamination or as an estimate due to instrument calibration concerns. Groundwater sample results are shown on Table 2. Copies of the official laboratory report and chain of custody documentation are attached.

CONCLUSIONS AND RECOMMENDATIONS

Based on results, it appears impacted soil and groundwater at concentrations exceeding applicable cleanup standards is present in the area of the reported former service station at the southwestern portion of the site.

Based on conditions, Puget recommends removing the existing UST, followed by additional investigation to further evaluate the extent of impact and provide data needed for development of a suitable cleanup plan.

LIMITATIONS

The scope of work for this investigation was conducted in a manner that is consistent with the level of care and skill ordinarily exercised by other members of the profession practicing in the same locality and under similar conditions as of the date the services were provided. Results of our evaluation including conclusions, opinions and recommendations are based on a limited number of observations and data. Data from other areas may be different. Puget makes no representation, guarantee, or warranty, express or implied, regarding the services, communication, report, opinion, or instrument of service provided.

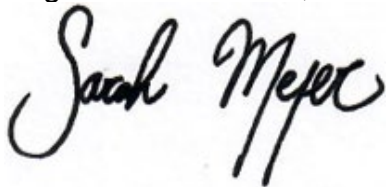
Puget provides various levels of service to meet the needs of varying clients. Evaluation of geologic and environmental conditions requires judgment leading to conclusions and recommendations that are generally based on incomplete knowledge of subsurface conditions due to the limitations of data from field studies. Although risk cannot be eliminated, more detailed and extensive studies yield more information which may help understand and manage the level of risk.

The work was conducted based on the scope and budget requirements, and site information provided by our client.

We appreciate the opportunity to provide service. Please do not hesitate to contact either of the undersigned if you have any questions.

Sincerely,

Puget Environmental, PLLC



Sarah Meyer
Office Manager



John K. Meyer, L.H.G.
Principal Hydrogeologist

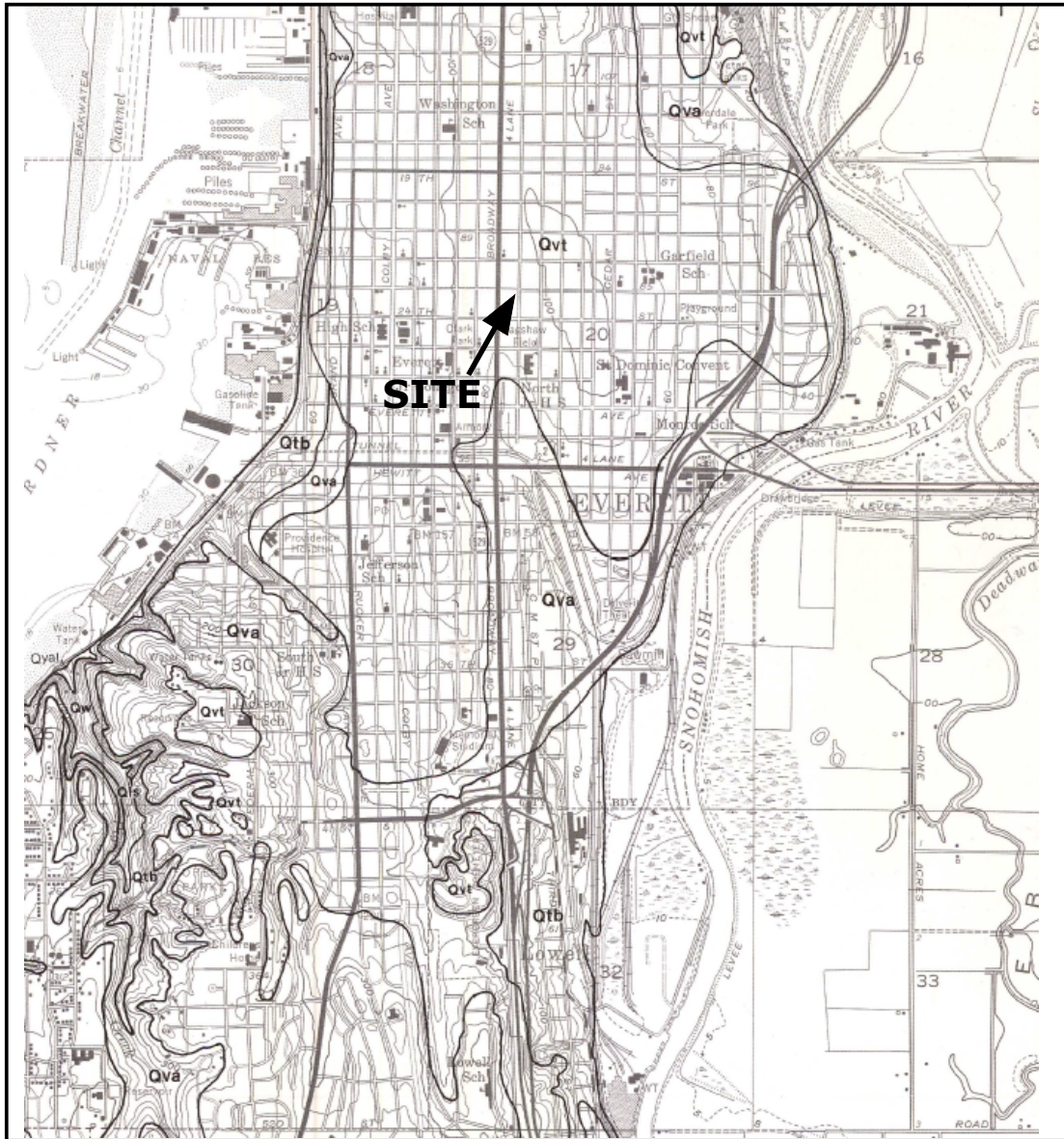
Attachments

Figures

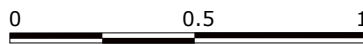
Tables

Boring Logs

Laboratory Reports and Chain of Custody Documentation



From the Department of the Interior U.S. Geological Survey - Everett, Washington 7.5-Minute Quadrangle, 1985



Approximate Scale (Feet)



NORTH

Dimensions and locations are approximate.

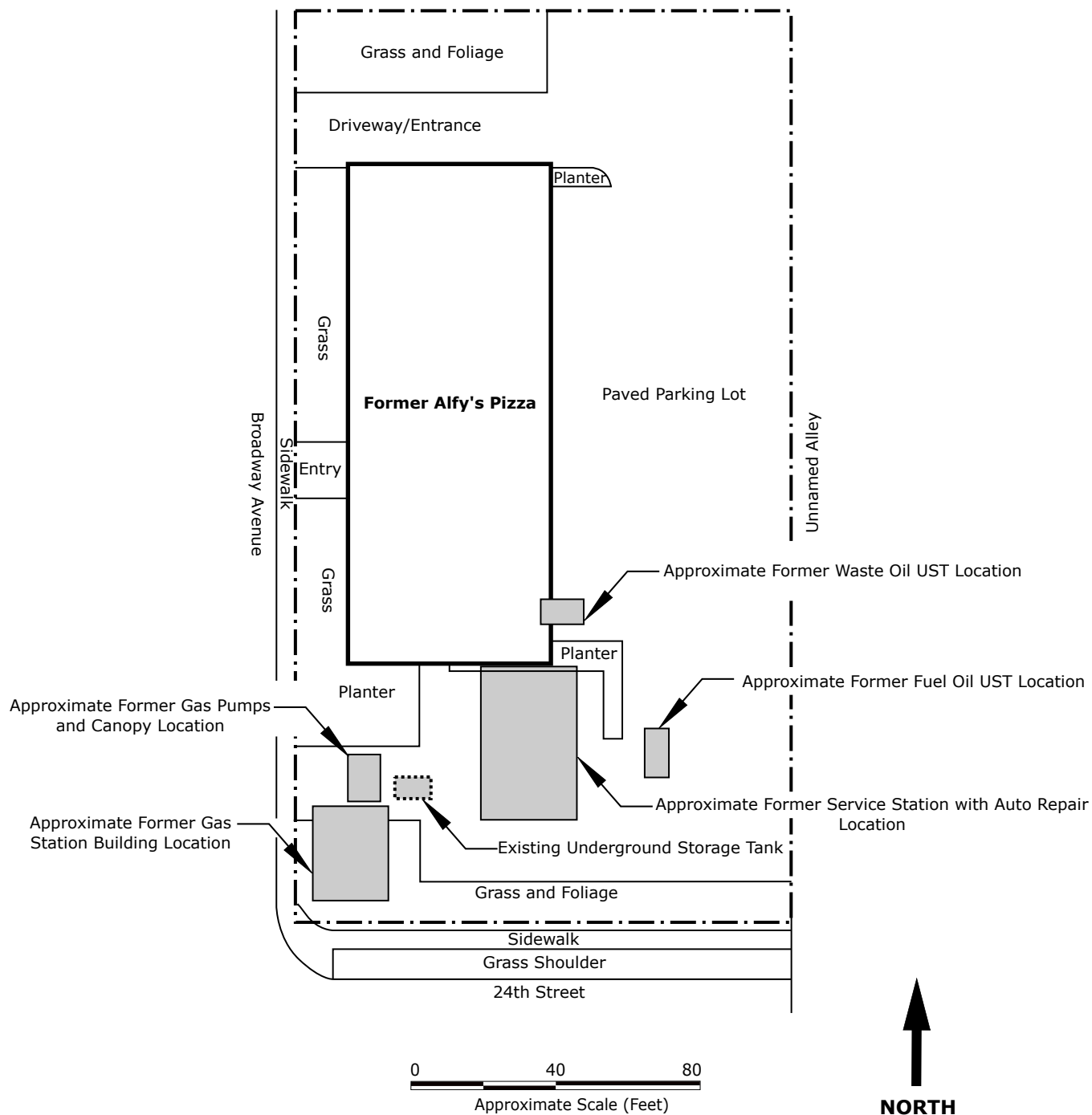
PUGET

ENVIRONMENTAL P.L.L.C.
4616 25th Avenue NE #143
Seattle, Washington 98105
PugetEnvironmental.com

Project Number: 21446 11/3/21 SM

Former Alfy's Pizza
2317 Broadway Avenue
Everett, Washington 98201

FIGURE 1
SITE LOCATION



Former service station locations are taken from prior consultant's reports. Dimensions and locations are approximate.

PUGET

ENVIRONMENTAL P.L.L.C.
4616 25th Avenue NE #143
Seattle, Washington 98105
PugetEnvironmental.com

Project Number: 21446 11/2/21 SM

Former Alfy's Pizza
2317 Broadway Avenue
Everett, Washington 98201

FIGURE 2
SITE PLAN

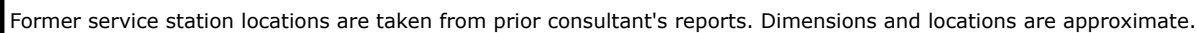


FIGURE 3
DIRECT-PUSH BORING
LOCATIONS

Table 1
Soil Sample Laboratory Results
TPH-G, TPH-D, TPH-O, BTEX, PAHs and VOCs
Former Alfy's Pizza
2317 Broadway Avenue
Everett, Washington 98201

Sample Name	Sample Location	Sample Depth	Date Collected	TPH-G ^{pc}	TPH-D	TPH-O	Benzene ^{pc}	Toluene ^{pc}	Ethylbenzene ^{pc}	Total Xylenes ^{pc}	Naphthalene	Carcinogenic PAHs	Non-Carcinogenic PAHs	VOCs
P1-15	P-1	15	10/26/21	1,400	<50	<250	<0.4	1.2	3.8	13	NA	NA	NA	NA
P1-18	P-1	18	10/26/21	<5	<50	<250	<0.02	<0.02	<0.02	<0.06	NA	NA	NA	NA
P2-16	P-2	16	10/26/21	<5	<50	<250	<0.02	<0.02	<0.02	<0.06	NA	NA	NA	NA
P3-5	P-3	5	10/26/21	750	2,900 x	17,000	<0.2	3.1	<0.2	7.1	<0.05	D	D	D
P3-8	P-3	8	10/26/21	<5	<50	<250	<0.02	<0.02	<0.02	<0.06	NA	NA	NA	NA
P4-8	P-4	8	10/26/21	630	84 x	<250	0.36	0.45	6.9	7.8	NA	NA	NA	NA
P4-12	P-4	12	10/26/21	<5	<50	<250	<0.02	<0.02	<0.02	<0.06	NA	NA	NA	NA
Method A Cleanup Level				100/30¹	2,000	2,000	0.03	7	6	9	5	--	--	--
Method B Cleanup Level				--	--	--	--	--	--	--	--	Various	Various	Various

Total Petroleum Hydrocarbons as Gasoline (TPH-G) compound analysis conducted using Washington State Department of Ecology Method NWTPH-Gx

Total Petroleum Hydrocarbons as Diesel (TPH-D) and Total Petroleum Hydrocarbons as Oil (TPH-O) compound analysis conducted using Washington State Department of Ecology Method NWTPH-Dx

Benzene, Toluene, Ethylbenzene and Total Xylene (BTEX) and Volatile Organic Compound (VOC) analysis conducted using EPA Method 8260D

Polycyclic Aromatic Hydrocarbon (PAH) analysis conducted using EPA Method 8270E

Depths are in feet below ground surface (bgs)

Results in milligrams per kilogram (mg/kg)

Bolded and shaded values exceed MTCA Method A and/or B cleanup levels

- ¹ Benzene detected/benzene not detected and the sum of toluene, ethylbenzene and total xylenes concentrations is less than 1% of the gasoline mixture
- D Detected
- NA Not analyzed
- pc Sample flagged by the analytical laboratory as "the sample was received with incorrect preservation or in a container not approved by the method."
- x Sample flagged by the analytical laboratory as "the sample chromatographic pattern does not resemble the fuel standard used for quantification."
- Not Applicable

Table 2
Groundwater Sample Laboratory Results
TPH-G, TPH-D, TPH-O, BTEX, PAHs and VOCs
Former Alfy's Pizza
2317 Broadway Avenue
Everett, Washington 98201

Sample Name	Sample Location	Sample Depth	Date Collected	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Carcinogenic PAHs	Non-Carcinogenic PAHs	VOCs ^{ca, lc}
W-1	Boring P-1	Unknown	10/26/21	2,000	1,400 x	1,800	2.0 ca	<1	3.9	<4.0	2.2	D	D	D
Method A Cleanup Level				800/1,000 ¹	500	500	5	1,000	700	1,000	160	--	--	--
Method B Cleanup Level				--	--	--	--	--	--	--	--	Various	Various	Various

Total Petroleum Hydrocarbons as Gasoline (TPH-G) compound analysis conducted using Washington State Department of Ecology Method NWTPH-Gx

Total Petroleum Hydrocarbons as Diesel (TPH-D) and Total Petroleum Hydrocarbons as Oil (TPH-O) compound analysis conducted using Washington State Department of Ecology Method NWTPH-Dx

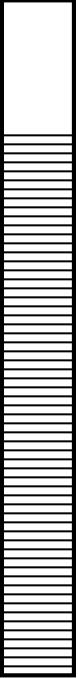
Benzene, Toluene, Ethylbenzene and Total Xylene (BTEX) and Volatile Organic Compound (VOC) analysis conducted using EPA Method 8260D

Polycyclic Aromatic Hydrocarbon (PAH) analysis conducted using EPA Method 8270E

Results in micrograms per liter (ug/L)

Bolded and shaded values exceed MTCA Method A and/or B cleanup levels: protective of groundwater saturated

- 1 Benzene detected/benzene not detected and the sum of toluene, ethylbenzene and total xylenes concentrations is less than 1% of the gasoline mixture.
- ca One or more analyte in the sample was detected at concentrations exceeding the cleanup level, but the sample was flagged by the analytical laboratory as "the calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate."
- D Detected
- lc One or more analyte in the sample was detected at concentrations exceeding the cleanup level, but the sample was flagged by the analytical laboratory as "the presence of the analyte is likely due to laboratory contamination."
- x Sample flagged by the analytical laboratory as "the sample chromatographic pattern does not resemble the fuel standard used for quantification."

Date: 10/26/2021		Soil Boring Log			Boring Name: P-1	
Project Name: Former Alfy's Pizza					Location: Near estimated former gas pump and canopy location	
Address: 2317 Broadway Avenue Everett, Washington 98201						
Depth	Sample	Blows	PID	USCS	Description	Well Construction
5			0.0	ML/CL	Damp, bluish gray, silty clay to clayey silt to approximately 8 feet bgs, underlain by medium brown, silty clay to clayey silt to approximately 15 feet bgs. Saturated conditions encountered at approximately 10 feet bgs.	 Temporary well: 0 to 3 feet 1-inch blank PVC casing. 3 to 18 feet 0.010-inch slotted 1-inch PVC casing. Well decommissioned by removing casing and filling borehole with bentonite.
10			0.0			
15			291			
20			0.2	SW	Fine- to coarse-grained sand with few fines to approximately 18 feet bgs. Refusal encountered at approximately 18 feet bgs due to dense soils.	
25			1.1		Total depth drilled = 18 feet	
30						
35						
PUGET ENVIRONMENTAL P.L.L.C. 4616 25th Avenue NE #143 Seattle, Washington 98105 Project Number: 21446 SM			Driller Name: Puget Environmental		Sampling Method: 4ft x 2.25-inch sampler with acetate liner	
			Drilling Method: Truck-Mounted Direct-Push		Weather Conditions:	
			Diameter: 2.25 inches		Partly Cloudy, 50s	
Page 1 of 1						

Date: 10/26/2021		Soil Boring Log			Boring Name: P-2	
Project Name: Former Alfy's Pizza					Location: East of the existing tank pit excavation	
Address: 2317 Broadway Avenue Everett, Washington 98201						
Depth	Sample	Blows	PID	USCS	Description	Well Construction
5			0.0	ML/CL	Damp, medium brown and grey mottled silty clay to clayey silt to maximum depth of approximately 16 feet bgs. Refusal encountered at approximately 16 feet bgs due to dense soils.	Not Applicable
10			0.0			
15			0.0			
20					Total depth drilled = 16 feet	
25						
30						
35						
PUGET ENVIRONMENTAL P.L.L.C. 4616 25th Avenue NE #143 Seattle, Washington 98105 Project Number: 21446 SM				Driller Name: Puget Environmental Drilling Method: Truck-Mounted Direct-Push Diameter: 2.25 inches		Sampling Method: 4ft x 2.25-inch sampler with acetate liner Weather Conditions: Partly Cloudy, 50s Page 1 of 1

Date: 10/26/2021		Soil Boring Log			Boring Name: P-3	
Project Name: Former Alfy's Pizza					Location: Near former gas pumps and canopy location	
Address: 2317 Broadway Avenue Everett, Washington 98201						
Depth	Sample	Blows	PID	USCS	Description	Well Construction
5			101	SP	Wet, dark gray fine-grained sand with clay with a strong hydrocarbon-like odor. @ 6 feet grayish-green, no odor.	Not Applicable
			0.2 3.4	SM	Silty, clayey, fine-grained sand	
10			0.0	ML/CL	Damp, medium-brown silty clay to clayey silt.	
15			0.0		Total depth drilled = 16 feet	
20						
25						
30						
35						
PUGET ENVIRONMENTAL P.L.L.C. 4616 25th Avenue NE #143 Seattle, Washington 98105 Project Number: 21446 SM				Driller Name: Puget Environmental Drilling Method: Truck-Mounted Direct-Push Diameter: 2.25 inches		Sampling Method: 4ft x 2.25-inch sampler with acetate liner Weather Conditions: Partly Cloudy, 50s Page 1 of 1

Date: 10/26/2021		Soil Boring Log			Boring Name: P-4	
Project Name: Former Alfy's Pizza					Location: Near former gas station building location	
Address: 2317 Broadway Avenue Everett, Washington 98201						
Depth	Sample	Blows	PID	USCS	Description	Well Construction
5						Not Applicable
10			15.6	ML/CL	Saturated, loose, dark gray, silty clay to clayey silt with strong hydrocarbon-like odor.	
			6.7		@ 12 feet damp, dark, grayish-green, no odor.	
			0.9		@ 14 feet damp, medium-brown and tan with blue mottling, no odor.	
15			0.5			
20			0.0		Total depth drilled = 20 feet	
25						
30						
35						
PUGET ENVIRONMENTAL P.L.L.C. 4616 25th Avenue NE #143 Seattle, Washington 98105 Project Number: 21446 SM				Driller Name: Puget Environmental Drilling Method: Truck-Mounted Direct-Push Diameter: 2.25 inches		Sampling Method: 4ft x 2.25-inch sampler with acetate liner Weather Conditions: Partly Cloudy, 50s
						Page 1 of 1

FRIEDMAN & BRUYA, INC.

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 8, 2021

John Meyer, Project Manager
Puget Environmental
4616 25th Avenue NE, Suite 143
Seattle, WA 98105

Dear Mr Meyer:

Included are the results from the testing of material submitted on October 28, 2021 from the Alfy's, F&BI 110560 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Sarah Meyer
PGT1108R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21
Date Received: 10/28/21
Project: Alfy's, F&BI 110560
Date Extracted: 10/29/21
Date Analyzed: 10/29/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 51-134)
W-1 110560-18 1/20	2,000	110
Method Blank 01-2323 MB	<100	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21
 Date Received: 10/28/21
 Project: Alfy's, F&BI 110560
 Date Extracted: 10/28/21
 Date Analyzed: 10/29/21

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
P1-15 pc 110560-03 1/20	<0.4	1.2	3.8	13	1,400	92
P1-18 pc 110560-05	<0.02	<0.02	<0.02	<0.06	<5	86
P2-16 pc 110560-08	<0.02	<0.02	<0.02	<0.06	<5	87
P3-5 pc 110560-09 1/10	<0.2	3.1	<0.2	7.1	750	97
P3-8 pc 110560-10	<0.02	<0.02	<0.02	<0.06	<5	86
P4-8 pc 110560-13 1/5	0.36	0.45	6.9	7.8	630	106
P4-12 pc 110560-15	<0.02	<0.02	<0.02	<0.06	<5	86
Method Blank 01-2320 MB	<0.02	<0.02	<0.02	<0.06	<5	98
Method Blank 01-2321 MB	<0.02	<0.02	<0.02	<0.06	<5	97

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21
Date Received: 10/28/21
Project: Alfy's, F&BI 110560
Date Extracted: 10/29/21
Date Analyzed: 10/29/21

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
P1-15 110560-03	<50	<250	105
P1-18 110560-05	<50	<250	101
P2-16 110560-08	<50	<250	103
P3-5 110560-09	2,900 x	17,000	103
P3-8 110560-10	<50	<250	102
P4-8 110560-13	84 x	<250	110
P4-12 110560-15	<50	<250	101
Method Blank 01-2503 MB	<50	<250	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21
Date Received: 10/28/21
Project: Alfy's, F&BI 110560
Date Extracted: 10/29/21
Date Analyzed: 10/29/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
W-1 110560-18	1,400 x	1,800	81
Method Blank 01-2504 MB	<50	<250	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	W-1	Client:	Puget Environmental
Date Received:	10/28/21	Project:	Alfy's, F&BI 110560
Date Extracted:	11/01/21	Lab ID:	110560-18 1/2
Date Analyzed:	11/02/21	Data File:	110209.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	26	10	60
Phenol-d6	42	10	49
Nitrobenzene-d5	48	15	144
2-Fluorobiphenyl	41	25	128
2,4,6-Tribromophenol	48	10	142
Terphenyl-d14	66	41	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	2.2
2-Methylnaphthalene	10
1-Methylnaphthalene	5.9
Acenaphthylene	0.65
Acenaphthene	0.24
Fluorene	0.49
Phenanthrene	3.7
Anthracene	0.93
Fluoranthene	5.9
Pyrene	6.2
Benz(a)anthracene	4.3
Chrysene	3.8
Benzo(a)pyrene	4.2
Benzo(b)fluoranthene	6.2
Benzo(k)fluoranthene	1.9
Indeno(1,2,3-cd)pyrene	1.7
Dibenz(a,h)anthracene	0.44
Benzo(g,h,i)perylene	1.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Puget Environmental
Date Received:	Not Applicable	Project:	Alfy's, F&BI 110560
Date Extracted:	11/01/21	Lab ID:	01-2511 mb2
Date Analyzed:	11/02/21	Data File:	110209.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	21	11	65
Phenol-d6	16	11	65
Nitrobenzene-d5	120	50	150
2-Fluorobiphenyl	103	44	108
2,4,6-Tribromophenol	81	10	140
Terphenyl-d14	112	50	150

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	<0.02
Fluorene	<0.02
Phenanthrene	<0.02
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	W-1	Client:	Puget Environmental
Date Received:	10/28/21	Project:	Alfy's, F&BI 110560
Date Extracted:	11/03/21	Lab ID:	110560-18
Date Analyzed:	11/03/21	Data File:	110318.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	97	87	115
4-Bromofluorobenzene	99	92	112

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	3.9
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	3.0 ca
Hexane	110	o-Xylene	<1
Methylene chloride	9.1 lc	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	5.0
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	9.3
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	8.3
Chloroform	8.4 ca	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	4.3	1,2,4-Trimethylbenzene	3.6
Benzene	2.0 ca	sec-Butylbenzene	4.2
Trichloroethene	<0.5	p-Isopropyltoluene	10
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	1.8
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Puget Environmental
Date Received:	Not Applicable	Project:	Alfy's, F&BI 110560
Date Extracted:	11/03/21	Lab ID:	01-2487 mb
Date Analyzed:	11/03/21	Data File:	110307.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	97	87	115
4-Bromofluorobenzene	100	92	112

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21

Date Received: 10/28/21

Project: Alfy's, F&BI 110560

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

Laboratory Code: 110565-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	104	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21

Date Received: 10/28/21

Project: Alfy's, F&BI 110560

**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: 110487-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	98	70-117
Ethylbenzene	mg/kg (ppm)	0.5	95	65-123
Xylenes	mg/kg (ppm)	1.5	96	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21

Date Received: 10/28/21

Project: Alfy's, F&BI 110560

**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: 110558-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	99	69-120
Toluene	mg/kg (ppm)	0.5	102	70-117
Ethylbenzene	mg/kg (ppm)	0.5	100	65-123
Xylenes	mg/kg (ppm)	1.5	101	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21

Date Received: 10/28/21

Project: Alfy's, F&BI 110560

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

Laboratory Code: 110560-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	106	104	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	104	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21

Date Received: 10/28/21

Project: Alfy's, F&BI 110560

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	120	116	63-142	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21

Date Received: 10/28/21

Project: Alfy's, F&BI 110560

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

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	2.5	93 vo	92 vo	62-90	1
2-Methylnaphthalene	ug/L (ppb)	2.5	94 vo	94 vo	64-93	0
1-Methylnaphthalene	ug/L (ppb)	2.5	94 vo	93	64-93	1
Acenaphthylene	ug/L (ppb)	2.5	103	101	70-130	2
Acenaphthene	ug/L (ppb)	2.5	100	98	70-130	2
Fluorene	ug/L (ppb)	2.5	103	100	70-130	3
Phenanthrene	ug/L (ppb)	2.5	103	100	70-130	3
Anthracene	ug/L (ppb)	2.5	100	100	70-130	0
Fluoranthene	ug/L (ppb)	2.5	106	105	70-130	1
Pyrene	ug/L (ppb)	2.5	106	104	70-130	2
Benz(a)anthracene	ug/L (ppb)	2.5	105	104	70-130	1
Chrysene	ug/L (ppb)	2.5	105	103	70-130	2
Benzo(a)pyrene	ug/L (ppb)	2.5	105	103	70-130	2
Benzo(b)fluoranthene	ug/L (ppb)	2.5	107	103	70-130	4
Benzo(k)fluoranthene	ug/L (ppb)	2.5	103	98	70-130	5
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	2.5	111	112	70-130	1
Dibenz(a,h)anthracene	ug/L (ppb)	2.5	108	113	70-130	5
Benzo(g,h,i)perylene	ug/L (ppb)	2.5	106	112	70-130	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/21

Date Received: 10/28/21

Project: Alfys, F&BI 110560

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	126	134	46-206	6
Chloromethane	ug/L (ppb)	10	110	119	70-142	8
Vinyl chloride	ug/L (ppb)	10	111	118	70-130	6
Bromomethane	ug/L (ppb)	10	112	120	56-197	7
Chloroethane	ug/L (ppb)	10	112	118	70-130	5
Trichlorofluoromethane	ug/L (ppb)	10	111	118	70-130	6
Acetone	ug/L (ppb)	50	56	57	10-140	2
1,1-Dichloroethene	ug/L (ppb)	10	102	110	70-130	8
Hexane	ug/L (ppb)	10	96	102	54-136	6
Methylene chloride	ug/L (ppb)	10	86	93	43-134	8
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	98	106	70-130	8
trans-1,2-Dichloroethene	ug/L (ppb)	10	96	102	70-130	6
1,1-Dichloroethane	ug/L (ppb)	10	100	107	70-130	7
2,2-Dichloropropane	ug/L (ppb)	10	97	113	70-130	15
cis-1,2-Dichloroethene	ug/L (ppb)	10	98	105	70-130	7
Chloroform	ug/L (ppb)	10	98	109	70-130	11
2-Butanone (MEK)	ug/L (ppb)	50	77	81	17-154	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	106	113	70-130	6
1,1,1-Trichloroethane	ug/L (ppb)	10	102	109	70-130	7
1,1-Dichloropropene	ug/L (ppb)	10	100	103	70-130	3
Carbon tetrachloride	ug/L (ppb)	10	95	107	70-130	12
Benzene	ug/L (ppb)	10	101	107	70-130	6
Trichloroethene	ug/L (ppb)	10	94	101	70-130	7
1,2-Dichloropropane	ug/L (ppb)	10	93	103	70-130	10
Bromodichloromethane	ug/L (ppb)	10	106	96	70-130	10
Dibromomethane	ug/L (ppb)	10	97	107	70-130	10
4-Methyl-2-pentanone	ug/L (ppb)	50	97	103	68-130	6
cis-1,3-Dichloropropene	ug/L (ppb)	10	90	97	69-131	7
Toluene	ug/L (ppb)	10	91	99	70-130	8
trans-1,3-Dichloropropene	ug/L (ppb)	10	91	97	70-130	6
1,1,2-Trichloroethane	ug/L (ppb)	10	94	101	70-130	7
2-Hexanone	ug/L (ppb)	50	88	95	45-138	8
1,3-Dichloropropane	ug/L (ppb)	10	93	101	70-130	8
Tetrachloroethene	ug/L (ppb)	10	92	100	70-130	8
Dibromochloromethane	ug/L (ppb)	10	93	102	60-148	9
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	90	97	70-130	7
Chlorobenzene	ug/L (ppb)	10	93	100	70-130	7
Ethylbenzene	ug/L (ppb)	10	91	99	70-130	8
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	95	105	70-130	10
m,p-Xylene	ug/L (ppb)	20	96	104	70-130	8
o-Xylene	ug/L (ppb)	10	91	100	70-130	9
Styrene	ug/L (ppb)	10	93	100	70-130	7
Isopropylbenzene	ug/L (ppb)	10	91	101	70-130	10
Bromoform	ug/L (ppb)	10	91	96	69-138	5
n-Propylbenzene	ug/L (ppb)	10	89	97	70-130	9
Bromobenzene	ug/L (ppb)	10	85	94	70-130	10
1,3,5-Trimethylbenzene	ug/L (ppb)	10	99	101	70-130	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	91	101	70-130	10
1,2,3-Trichloropropane	ug/L (ppb)	10	93	101	70-130	8
2-Chlorotoluene	ug/L (ppb)	10	90	103	70-130	13
4-Chlorotoluene	ug/L (ppb)	10	97	101	70-130	4
tert-Butylbenzene	ug/L (ppb)	10	87	97	70-130	11
1,2,4-Trimethylbenzene	ug/L (ppb)	10	91	100	70-130	9
sec-Butylbenzene	ug/L (ppb)	10	89	100	70-130	12
p-Isopropyltoluene	ug/L (ppb)	10	90	100	70-130	11
1,3-Dichlorobenzene	ug/L (ppb)	10	92	100	70-130	8
1,4-Dichlorobenzene	ug/L (ppb)	10	91	100	70-130	9
1,2-Dichlorobenzene	ug/L (ppb)	10	89	99	70-130	11
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	97	105	70-130	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	86	97	70-130	12
Hexachlorobutadiene	ug/L (ppb)	10	85	96	70-130	12
Naphthalene	ug/L (ppb)	10	91	102	70-130	11
1,2,3-Trichlorobenzene	ug/L (ppb)	10	88	99	70-130	12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

110560

SAMPLE CHAIN OF CUSTODY

10-28-21

Page # 1 of 2

7004

Report To: John MeyerCompany: West Environmental

Address: _____

City, State, ZIP: _____

Phone: _____ Email: _____

SAMPLERS (signature) [Signature]PROJECT NAME: A15y's

PO #

REMARKS

INVOICE TO

Protect specific RIs? - Yes / No

TURNAROUND TIME

☐ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
P1-8	01	10/28/21		5	1								
P1-12	02				1								
P1-15	03				1	XXX							
P1-17	04				1	XXX							
P1-18	05				1	XXX							
P2-8	06				1	XXX							
P2-12	07				1	XXX							
P2-16	08				1	XXX							
P3-5	09				1	XXX							
P3-8	10				1	XXX							

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: [Signature]PRINT NAME: John MeyerCOMPANY: West EnvironmentalDATE: 10/28/21TIME: 1345Received by: [Signature]PRINT NAME: John BruyaCOMPANY: West EnvironmentalDATE: 10/28/21TIME: 1345

Relinquished by: _____

PRINT NAME: _____

COMPANY: _____

DATE: _____

TIME: _____

Received by: _____

PRINT NAME: _____

COMPANY: _____

DATE: _____

TIME: _____

Samples received at 600

FRIEDMAN & BRUYA, INC.

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 18, 2021

John Meyer, Project Manager
Puget Environmental
4616 25th Avenue NE, Suite 143
Seattle, WA 98105

Dear Mr Meyer:

Included are the additional results from the testing of material submitted on October 28, 2021 from the Alfy's, F&BI 110560 project. There are 9 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Sarah Meyer
PGT1118R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	P3-5	Client:	Puget Environmental
Date Received:	10/28/21	Project:	Alfy's, F&BI 110560
Date Extracted:	11/09/21	Lab ID:	110560-09 1/25
Date Analyzed:	11/10/21	Data File:	111010.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	74 d	39	103
Phenol-d6	86 d	48	109
Nitrobenzene-d5	95 d	23	138
2-Fluorobiphenyl	90 d	50	150
2,4,6-Tribromophenol	91 d	40	127
Terphenyl-d14	103 d	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	1.8
1-Methylnaphthalene	0.88
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	0.10
Phenanthrene	0.22
Anthracene	<0.05
Fluoranthene	0.32
Pyrene	0.86
Benz(a)anthracene	0.19
Chrysene	0.33
Benzo(a)pyrene	0.14 J
Benzo(b)fluoranthene	0.48 J
Benzo(k)fluoranthene	0.056 J
Indeno(1,2,3-cd)pyrene	0.10 J
Dibenz(a,h)anthracene	<0.05 J
Benzo(g,h,i)perylene	0.099 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	P3-5	Client:	Puget Environmental
Date Received:	10/28/21	Project:	Alfy's, F&BI 110560
Date Extracted:	11/09/21	Lab ID:	110560-09 1/250
Date Analyzed:	11/10/21	Data File:	111011.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67 d	39	103
Phenol-d6	84 d	48	109
Nitrobenzene-d5	90 d	23	138
2-Fluorobiphenyl	85 d	50	150
2,4,6-Tribromophenol	74 d	40	127
Terphenyl-d14	85 d	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.5
2-Methylnaphthalene	1.7
1-Methylnaphthalene	0.86
Acenaphthylene	<0.5
Acenaphthene	<0.5
Fluorene	<0.5
Phenanthrene	<0.5
Anthracene	<0.5
Fluoranthene	<0.5
Pyrene	0.69
Benz(a)anthracene	<0.5
Chrysene	<0.5
Benzo(a)pyrene	<0.5
Benzo(b)fluoranthene	<0.5
Benzo(k)fluoranthene	<0.5
Indeno(1,2,3-cd)pyrene	<0.5
Dibenz(a,h)anthracene	<0.5
Benzo(g,h,i)perylene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Puget Environmental
Date Received:	Not Applicable	Project:	Alfy's, F&BI 110560
Date Extracted:	11/09/21	Lab ID:	01-2558 mb2 1/5
Date Analyzed:	11/09/21	Data File:	110929.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	71	39	103
Phenol-d6	83	48	109
Nitrobenzene-d5	96	23	138
2-Fluorobiphenyl	91	50	150
2,4,6-Tribromophenol	84	40	127
Terphenyl-d14	94	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	P3-5 pc	Client:	Puget Environmental
Date Received:	10/28/21	Project:	Alfy's, F&BI 110560
Date Extracted:	11/11/21	Lab ID:	110560-09
Date Analyzed:	11/15/21	Data File:	111513.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	84	118
Toluene-d8	108	86	117
4-Bromofluorobenzene	98	90	112

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration 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	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	0.73	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	1.8
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	5.2
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	0.060
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	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	0.14
Benzene	<0.03	sec-Butylbenzene	0.60
Trichloroethene	<0.02	p-Isopropyltoluene	0.37
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	0.051
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	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	0.057
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Puget Environmental
Date Received:	Not Applicable	Project:	Alfy's, F&BI 110560
Date Extracted:	11/11/21	Lab ID:	01-2573 mb
Date Analyzed:	11/11/21	Data File:	111105.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	90	109
Toluene-d8	103	89	112
4-Bromofluorobenzene	96	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration 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	<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)	<1	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	<1	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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/21

Date Received: 10/28/21

Project: Alfys, F&BI 110560

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

Laboratory Code: 111088-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	<0.01	79	79	34-118	0
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	82	82	29-130	0
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	82	82	37-119	0
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	87	86	45-128	1
Acenaphthene	mg/kg (ppm)	0.83	<0.01	86	85	36-125	1
Fluorene	mg/kg (ppm)	0.83	<0.01	89	89	48-121	0
Phenanthrene	mg/kg (ppm)	0.83	<0.01	87	89	50-150	2
Anthracene	mg/kg (ppm)	0.83	<0.01	88	88	50-150	0
Fluoranthene	mg/kg (ppm)	0.83	<0.01	93	93	50-150	0
Pyrene	mg/kg (ppm)	0.83	<0.01	85	92	50-150	8
Benz(a)anthracene	mg/kg (ppm)	0.83	<0.01	89	90	50-150	1
Chrysene	mg/kg (ppm)	0.83	<0.01	92	94	50-150	2
Benzo(a)pyrene	mg/kg (ppm)	0.83	<0.01	92	94	50-150	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	<0.01	91	95	50-150	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	<0.01	93	94	50-150	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	<0.01	96	103	41-134	7
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	<0.01	97	101	44-130	4
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	<0.01	93	98	33-131	5

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	85	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	89	67-108
1-Methylnaphthalene	mg/kg (ppm)	0.83	89	66-107
Acenaphthylene	mg/kg (ppm)	0.83	91	70-130
Acenaphthene	mg/kg (ppm)	0.83	89	66-112
Fluorene	mg/kg (ppm)	0.83	93	67-117
Phenanthrene	mg/kg (ppm)	0.83	90	70-130
Anthracene	mg/kg (ppm)	0.83	91	70-130
Fluoranthene	mg/kg (ppm)	0.83	96	70-130
Pyrene	mg/kg (ppm)	0.83	88	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	92	70-130
Chrysene	mg/kg (ppm)	0.83	95	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	95	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	95	69-125
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	97	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	101	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	103	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	100	64-127

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/21

Date Received: 10/28/21

Project: Alfy's, F&BI 110560

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

Laboratory Code: 111205-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	1	<0.5	47	42	10-142	11
Chloromethane	mg/kg (ppm)	1	<0.5	66	65	10-126	2
Vinyl chloride	mg/kg (ppm)	1	<0.05	73	74	10-138	1
Bromomethane	mg/kg (ppm)	1	<0.5	103	100	10-163	3
Chloroethane	mg/kg (ppm)	1	<0.5	85	87	10-176	2
Trichlorofluoromethane	mg/kg (ppm)	1	<0.5	104	103	10-176	1
Acetone	mg/kg (ppm)	5	<5	186 vo	194 vo	10-163	4
1,1-Dichloroethene	mg/kg (ppm)	1	<0.05	93	97	10-160	4
Hexane	mg/kg (ppm)	1	<0.25	79	77	10-137	3
Methylene chloride	mg/kg (ppm)	1	<0.5	80	82	10-156	2
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	<0.05	90	90	21-145	0
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	94	93	14-137	1
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	89	88	19-140	1
2,2-Dichloropropane	mg/kg (ppm)	1	<0.05	123	115	10-158	7
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	94	92	25-135	2
Chloroform	mg/kg (ppm)	1	<0.05	92	90	21-145	2
2-Butanone (MEK)	mg/kg (ppm)	5	<1	132	136	19-147	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	97	97	12-160	0
1,1,1-Trichloroethane	mg/kg (ppm)	1	<0.05	95	97	10-156	2
1,1-Dichloropropene	mg/kg (ppm)	1	<0.05	92	90	17-140	2
Carbon tetrachloride	mg/kg (ppm)	1	<0.05	107	105	9-164	2
Benzene	mg/kg (ppm)	1	<0.03	90	90	29-129	0
Trichloroethene	mg/kg (ppm)	1	<0.02	92	85	21-139	8
1,2-Dichloropropane	mg/kg (ppm)	1	<0.05	91	89	30-135	2
Bromodichloromethane	mg/kg (ppm)	1	<0.05	95	92	23-155	3
Dibromomethane	mg/kg (ppm)	1	<0.05	95	95	23-145	0
4-Methyl-2-pentanone	mg/kg (ppm)	5	<1	99	98	24-155	1
cis-1,3-Dichloropropene	mg/kg (ppm)	1	<0.05	94	91	28-144	3
Toluene	mg/kg (ppm)	1	<0.05	96	95	35-130	1
trans-1,3-Dichloropropene	mg/kg (ppm)	1	<0.05	102	98	26-149	4
1,1,2-Trichloroethane	mg/kg (ppm)	1	<0.05	95	92	10-205	3
2-Hexanone	mg/kg (ppm)	5	<5	111	107	15-166	4
1,3-Dichloropropene	mg/kg (ppm)	1	<0.05	96	93	31-137	3
Tetrachloroethene	mg/kg (ppm)	1	<0.025	102	100	20-133	2
Dibromochloromethane	mg/kg (ppm)	1	<0.05	100	99	28-150	1
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	<0.05	98	97	28-142	1
Chlorobenzene	mg/kg (ppm)	1	<0.05	99	98	32-129	1
Ethylbenzene	mg/kg (ppm)	1	<0.05	99	98	32-137	1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	<0.05	99	99	31-143	0
m,p-Xylene	mg/kg (ppm)	2	<0.1	101	98	34-136	3
o-Xylene	mg/kg (ppm)	1	<0.05	97	97	33-134	0
Styrene	mg/kg (ppm)	1	<0.05	98	96	35-137	2
Isopropylbenzene	mg/kg (ppm)	1	<0.05	99	98	31-142	1
Bromoform	mg/kg (ppm)	1	<0.05	104	100	21-156	4
n-Propylbenzene	mg/kg (ppm)	1	<0.05	93	95	23-146	2
Bromobenzene	mg/kg (ppm)	1	<0.05	100	100	34-130	0
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	<0.05	96	99	18-149	3
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	<0.05	96	97	28-140	1
1,2,3-Trichloropropane	mg/kg (ppm)	1	<0.05	90	89	25-144	1
2-Chlorotoluene	mg/kg (ppm)	1	<0.05	90	93	31-134	3
4-Chlorotoluene	mg/kg (ppm)	1	<0.05	97	95	31-136	2
tert-Butylbenzene	mg/kg (ppm)	1	<0.05	99	99	30-137	0
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	<0.05	93	97	10-182	4
sec-Butylbenzene	mg/kg (ppm)	1	<0.05	96	96	23-145	0
p-Isopropyltoluene	mg/kg (ppm)	1	<0.05	96	99	21-149	3
1,3-Dichlorobenzene	mg/kg (ppm)	1	<0.05	96	96	30-131	0
1,4-Dichlorobenzene	mg/kg (ppm)	1	<0.05	94	95	29-129	1
1,2-Dichlorobenzene	mg/kg (ppm)	1	<0.05	95	97	31-132	2
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	<0.5	99	97	11-161	2
1,2,4-Trichlorobenzene	mg/kg (ppm)	1	<0.25	98	100	22-142	2
Hexachlorobutadiene	mg/kg (ppm)	1	<0.25	107	111	10-142	4
Naphthalene	mg/kg (ppm)	1	<0.05	90	96	14-157	6
1,2,3-Trichlorobenzene	mg/kg (ppm)	1	<0.25	95	99	20-144	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/21

Date Received: 10/28/21

Project: Alfys, F&BI 110560

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	1	17	10-146
Chloromethane	mg/kg (ppm)	1	43	27-133
Vinyl chloride	mg/kg (ppm)	1	63	22-139
Bromomethane	mg/kg (ppm)	1	92	38-114
Chloroethane	mg/kg (ppm)	1	89	9-163
Trichlorofluoromethane	mg/kg (ppm)	1	119	10-196
Acetone	mg/kg (ppm)	5	150 vo	52-141
1,1-Dichloroethene	mg/kg (ppm)	1	106	47-128
Hexane	mg/kg (ppm)	1	73	43-142
Methylene chloride	mg/kg (ppm)	1	102	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	102	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	1	104	67-129
1,1-Dichloroethane	mg/kg (ppm)	1	102	68-115
2,2-Dichloropropane	mg/kg (ppm)	1	139	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	1	105	72-127
Chloroform	mg/kg (ppm)	1	106	66-120
2-Butanone (MEK)	mg/kg (ppm)	5	105	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	111	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	1	109	62-131
1,1-Dichloropropene	mg/kg (ppm)	1	99	69-128
Carbon tetrachloride	mg/kg (ppm)	1	124	60-139
Benzene	mg/kg (ppm)	1	100	71-118
Trichloroethene	mg/kg (ppm)	1	100	63-121
1,2-Dichloropropane	mg/kg (ppm)	1	101	72-127
Bromodichloromethane	mg/kg (ppm)	1	109	57-126
Dibromomethane	mg/kg (ppm)	1	106	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	5	105	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	1	104	67-122
Toluene	mg/kg (ppm)	1	95	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	1	103	72-132
1,1,2-Trichloroethane	mg/kg (ppm)	1	95	64-115
2-Hexanone	mg/kg (ppm)	5	81	33-152
1,3-Dichloropropane	mg/kg (ppm)	1	94	72-130
Tetrachloroethene	mg/kg (ppm)	1	99	72-114
Dibromochloromethane	mg/kg (ppm)	1	105	55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	98	74-132
Chlorobenzene	mg/kg (ppm)	1	97	76-111
Ethylbenzene	mg/kg (ppm)	1	98	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	100	64-121
m,p-Xylene	mg/kg (ppm)	2	101	78-122
o-Xylene	mg/kg (ppm)	1	98	77-124
Styrene	mg/kg (ppm)	1	97	74-126
Isopropylbenzene	mg/kg (ppm)	1	99	76-127
Bromoform	mg/kg (ppm)	1	108	56-132
n-Propylbenzene	mg/kg (ppm)	1	92	74-124
Bromobenzene	mg/kg (ppm)	1	96	72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	95	76-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	95	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	1	86	61-137
2-Chlorotoluene	mg/kg (ppm)	1	89	74-121
4-Chlorotoluene	mg/kg (ppm)	1	92	75-122
tert-Butylbenzene	mg/kg (ppm)	1	97	73-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	94	76-125
sec-Butylbenzene	mg/kg (ppm)	1	93	71-130
p-Isopropyltoluene	mg/kg (ppm)	1	95	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	1	94	75-121
1,4-Dichlorobenzene	mg/kg (ppm)	1	92	74-117
1,2-Dichlorobenzene	mg/kg (ppm)	1	94	76-121
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	97	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	1	94	64-135
Hexachlorobutadiene	mg/kg (ppm)	1	103	50-153
Naphthalene	mg/kg (ppm)	1	91	63-140
1,2,3-Trichlorobenzene	mg/kg (ppm)	1	93	63-138

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

11057600

SAMPLE CHAIN OF CUSTODY

10-28-21

Page #

of

7504

Report To

John M. Smith

Company

West Environmental

Address

City, State, ZIP

Phone

Email

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project specific RI's? - Yes / No

TURNAROUND TIME

☐ Standard turnaround
☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples
☐ Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
P1-B	01	10/24/21		5	1									per SM
P1-12	02				1									11/9/21 ME
P1-15	03				1	XXX								
P1-17	04				1	XXX								
P1-18	05				1	XXX								
P2-B	06				1									
P2-12	07				1									
P2-16	08				1	XXX								
P3-5	09				1	XXX								
P3-B	10				1	XXX								

Friedman & Bruyca, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

John M. Smith

PRINT NAME

COMPANY

DATE

TIME

Received by:

John M. Smith

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

John M. Smith

PRINT NAME

COMPANY

DATE

TIME

Received by:

John M. Smith

PRINT NAME

COMPANY

DATE

TIME

Samples received at 6:00

110560

SAMPLE CHAIN OF CUSTODY

10-28-21

Report ID 110560

Company Robert E. Miller

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLERS (signature) _____

PROJECT NAME

414's

PO #

REMARKS

INVOICE TO

Project specific RLS? - Yes / No

Page #

2

of

2

DOY

TURNAROUND TIME

☐ Standard turnaround

☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples

☐ Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
<u>P3-12</u>	<u>11</u>	<u>10/28/21</u>	<u>1</u>	<u>5</u>	<u>1</u>	<u>X</u>							
<u>P3-16</u>	<u>12</u>			<u>1</u>	<u>1</u>	<u>X</u>							
<u>P4-8</u>	<u>13</u>			<u>1</u>	<u>1</u>	<u>X</u>							
<u>P4-10</u>	<u>14</u>			<u>1</u>	<u>1</u>	<u>X</u>							
<u>P4-12</u>	<u>15</u>			<u>1</u>	<u>1</u>	<u>X</u>							
<u>P4-16</u>	<u>16</u>			<u>1</u>	<u>1</u>	<u>X</u>							
<u>P4-20</u>	<u>17</u>			<u>1</u>	<u>1</u>	<u>X</u>							
<u>W-1</u>	<u>18</u>			<u>4</u>	<u>4</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Friedman & Bryna, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

Relinquished by: _____

PRINT NAME

John Miller

COMPANY

Robert E. Miller

DATE

10/28/21

TIME

1345

Received by: _____

Michael

Michael Pham

Fe B.I.

Relinquished by: _____

Received by: _____

Samples received at 6 00