



Mr. Dale Myers
Washington State Department of Ecology
Toxics Cleanup Program / Northwest Regional Office
3190 160th Ave. SE
Bellevue, WA 98008

Subject: **Progress Report – November 2018**
Newman’s Chevron
2021 6th Street
Bremerton, Washington

Dear Mr. Myers:

On behalf of Chevron Environmental Management Company, Nordic Properties, Inc., and Victory Business Park, LLC (the PLPs), Leidos, Inc. (Leidos) is providing this progress report to document activities performed to satisfy the requirements of Agreed Order No. DE 14246 for the above-referenced site (the Site), located at 2021 6th Street in Bremerton, Washington. This report summarizes activities completed from November 1 through November 30, 2018.

ACTIONS TAKEN TO COMPLY WITH THE AGREED ORDER

- EcoChem completed data validation for all soil, soil vapor, and QA/QC samples submitted for laboratory analysis in association with RI field investigation work completed in August and September 2018. With the exception of several samples that were re-analyzed for extractable petroleum hydrocarbons outside of their holding times, EcoChem concluded that all data, as reported or qualified, were acceptable for use.
- Leidos completed evaluation of data collected during the August and September 2018 RI field work, identified data gaps, and initiated communication between the PLPs regarding additional work necessary to complete the RI.

SUMMARY OF SAMPLING/TESTING AND OTHER DATA REPORTS

- A summary of soil analytical results exceeding MTCA Method A cleanup levels was presented in the previous Progress Report for October 2018. Data summary

- tables presenting all soil sampling results from the August 2018 soil sampling activities are attached as draft Tables 1 – 4. A draft site map showing the approximate location of 2018 RI sampling locations is also attached.
- Draft tables summarizing the results of soil vapor sampling completed in September 2018 are attached as draft Tables 5 and 6.

DEVIATIONS FROM THE APPROVED WORK PLAN

- None during the current reporting period.

SUMMARY OF CONTACTS WITH PUBLIC STAKEHOLDERS

- Leidos did not engage with representatives of the local community, public interest groups, press, or federal, state, or tribal governments during this reporting period.

PROBLEMS OR ANTICIPATED PROBLEMS IN MEETING THE SCHEDULE OR OBJECTIVES OF AGREED ORDER OR RIWP

- As previously reported in the October 2018 Progress Report, additional RI field investigations are required to address data gaps remaining regarding the extent of petroleum impacts at the Site. A request for a schedule extension to complete the RI field investigations was submitted by Leidos, on behalf of the PLPs, to Ecology on December 10, 2018.

CHANGES IN KEY PERSONNEL

- None during the current reporting period.

ACTIVITIES ANTICIPATED FOR THE NEXT REPORTING PERIOD

- Leidos will facilitate an in-person meeting with Ecology to review the results of the August and September 2018 RI field investigations and discuss the anticipated path forward for completion of the RI.

If you have any questions or comments regarding the information presented in this report, please contact me at (425) 482-3323 or via email at russell.s.shropshire@leidos.com.

Sincerely,




Leidos, Inc.

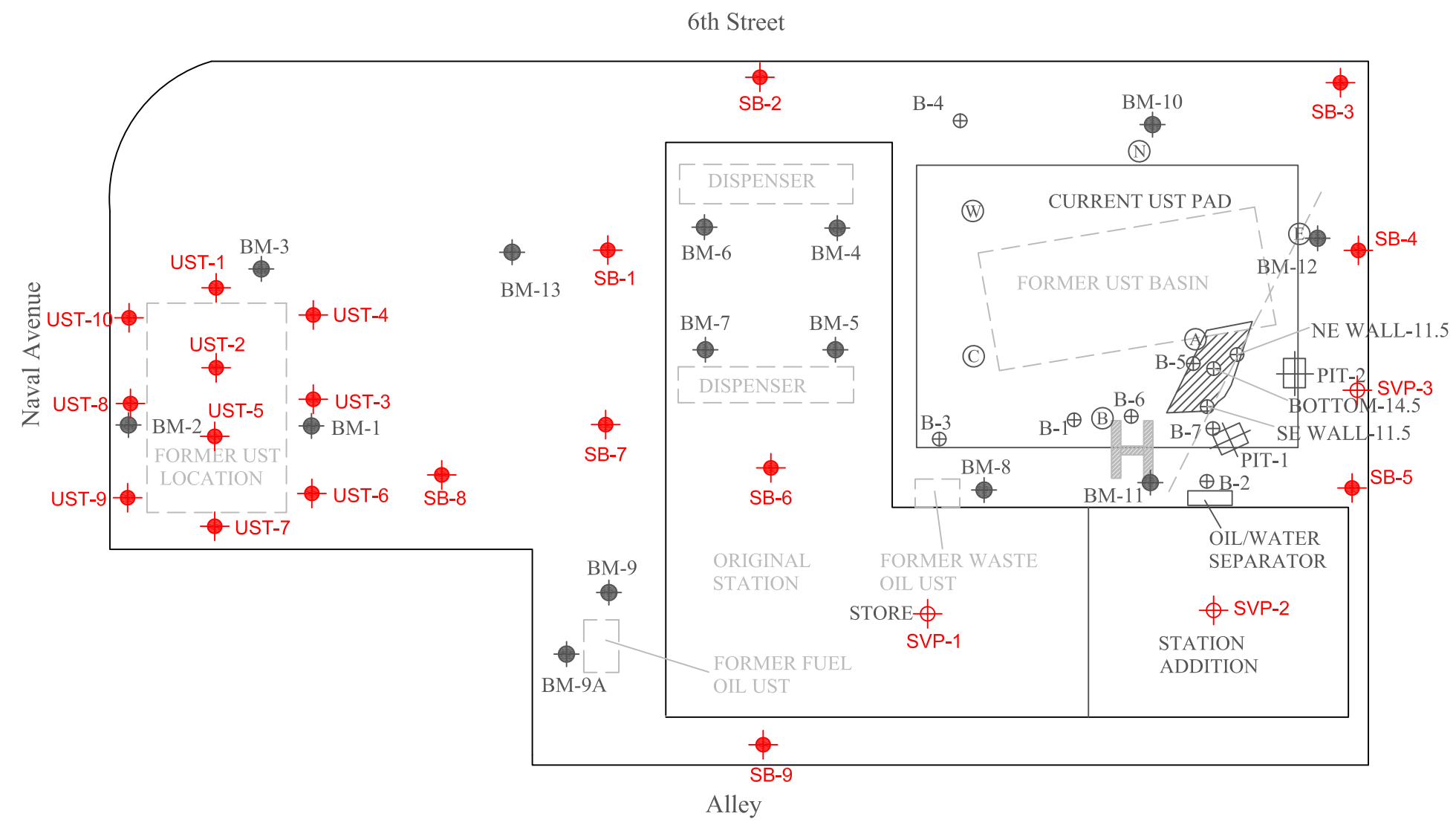


Russell S. Shropshire, PE
Principal Engineer

cc: Michael Warfel – Ecology
Eric Hetrick and Cheryl Cameron – CEMC
Roger Jensen – Nordic Properties, Inc.
Jim Reed – Victory Business Park, LLC
Bob Goodman – RJO
William Joyce – JZP
Larry Hall and Paul Ferman– Hall & West
Peter Jewett and Peter Kingston– Farallon Consulting



- LEGEND:**
-  SB-2 2018 RI Soil Boring Location
 -  SVP-1 2018 RI Soil Vapor Sampling Location
 -  BM-1 Approximate Soil Boring Location (PEI, 2009)
 -  B-3 Approximate Soil Boring Location (Geoscience Management, 2000)
 -  Approximate Location of Test Excavation and Confirmation Samples (Geoscience Management, 2000)
 -  Approximate Location of Confirmation Soil Sample (AGI, 1990)
 -  Approximate Location of Test Pit (AGI, 1990)
 -  Approximate Location of Former Service Bay Hoist



DRAFT



Newman's Chevron
2021 6th Street
Bremerton, Washington

FIGURE 1
Site Map with Historical and 2018 RI
Sampling Locations

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - TPHs and Volatile Petroleum Compounds
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons			Volatile Petroleum Hydrocarbons			
			GRO	DRO	HRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
SB-1	6	08/23/18	0.4	<3.2	<11	0.002	0.004	0.0008	0.006
	12	08/27/18	<0.2	<3.3	<11	<0.0005	0.001	<0.0004	<0.001
	14	08/27/18	0.3	<3.3	<11	<0.0004	0.001	<0.0004	<0.0009
	16	08/27/18	0.3	<3.2	<11	<0.0005	0.001	<0.0004	<0.0009
	51	08/27/18	<0.2	<3.1	<10	<0.0005	0.0007	<0.0004	<0.0009
SB-2	6	08/24/18	1.4	<3.3	<11	0.0009	0.003	0.0004	0.009
	8	08/28/18	<0.2	13	49	<0.0005	0.0009	<0.0004	<0.0009
	11	08/28/18	6.3	<3.3	<11	<0.0004	0.001	<0.0003	0.001
	15	08/28/18	0.3	<3.3	<11	<0.0005	0.0006	<0.0004	<0.001
	20	08/28/18	0.2	<3.2	<11	<0.0005	<0.0006	<0.0004	<0.0009
SB-3	10	08/28/18	<0.3	<3.8	<13	<0.0005	<0.0006	<0.0004	<0.0009
	12	08/28/18	<0.2	<3.3	<11	<0.0004	<0.0005	<0.0003	<0.0008
	16	08/28/18	<0.2	<3.3	<11	<0.0004	<0.0005	<0.0003	<0.0009
	24	08/28/18	<0.2	<3.2	<11	<0.0005	<0.0006	<0.0004	<0.0009
SB-4	6	08/23/18	<0.2	3.2	<11	<0.0004	<0.0005	<0.0003	<0.0008
	12	08/29/18	550	<3.7	<12	<0.0005	0.001	0.002	<0.0009
	12 (D)	08/29/18	410	6.7	<12	<0.0005	0.001	0.0005	<0.001
	14	08/29/18	<0.2	<3.2	<11	<0.0005	0.0008	<0.0004	<0.0009
	25	08/29/18	0.8	<3.1	<10	0.0005	0.001	<0.0004	<0.001
SB-5	6	08/23/18	<0.1	<3.2	<11	<0.0004	<0.0005	<0.0004	<0.0009
	12	08/28/18	0.5	<3.9	<13	<0.0005	<0.0006	<0.0004	<0.0009
	14	08/28/18	420	<3.7	<12	<0.029	<0.035	<0.023	<0.058
	17.5	08/28/18	1,100	23	<11	<0.023	0.042	0.67	9.8
	24	08/28/18	0.7	<3.3	<11	<0.0005	0.001	<0.0004	0.004
	30	08/29/18	0	<3.2	<11	0.0006	0.002	<0.0004	0.002
SB-6	2	08/24/18	<0.2	<3.2	<11	<0.0005	<0.0005	<0.0004	<0.0009
	6	08/24/18	<0.2	<3.1	<10	<0.0004	<0.0004	<0.0003	<0.0007
SB-7	6	08/23/18	0.3	<3.1	14	<0.0005	<0.0006	<0.0004	<0.001
	10	08/27/18	2.5	<3.8	<13	0.46	0.15	0.16	0.38
	14	08/27/18	3.0	<3.4	<11	0.18	0.38	0.056	0.28
	22	08/27/18	<0.2	<3.2	<11	0.001	0.002	<0.0003	<0.0008
	28	08/27/18	<0.2	<3.2	<11	<0.0005	0.001	<0.0004	<0.001
SB-8	2	08/29/18	2.1	<3.4	45	<0.0005	0.0006	<0.0004	<0.001
	12	08/29/18	0.4	<3.3	<11	<0.0005	0.001	<0.0004	<0.0009
	14	08/29/18	<0.2	<3.1	<10	<0.0005	<0.0006	<0.0004	<0.001
	25	08/29/18	<0.2	<3.3	<11	<0.0005	<0.0006	<0.0004	<0.001
SB-9	7	08/31/18	0.8	<3.5	13	<0.0005	<0.0006	<0.0004	<0.001
	11.5	08/31/18	<0.3	<3.5	14	<0.0005	<0.0006	<0.0004	<0.001

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - TPHs and Volatile Petroleum Compounds
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons			Volatile Petroleum Hydrocarbons			
			GRO	DRO	HRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
UST-1	8	08/28/18	<0.2	5.7	59	<0.0004	<0.0005	<0.0003	<0.0009
UST-2	8	08/28/18	670	2,800	<110	<0.026	<0.031	<0.021	<0.051
	8 (D)	08/28/18	530	2,500	<220	<0.026	<0.031	<0.020	<0.051
UST-3	8	08/29/18	0.5	480	<21	<0.0004	<0.0005	<0.0004	<0.0009
UST-4	8	08/29/18	130	1,700	140	<0.025	<0.030	<0.020	<0.050
UST-5	8	08/29/18	0.8	230	73	<0.0005	0.001	<0.0004	<0.001
UST-6	8	08/29/18	0.2	160	47	0.0008	0.002	<0.0004	0.001
UST-7	8	08/29/18	<0.2	4.1	39	<0.0005	<0.0005	<0.0004	<0.0009
UST-8	8	08/29/18	<0.3	60	14	<0.0005	0.002	<0.0004	<0.001
SVP-1	8	08/30/18	0.3	11	35	0.0008	0.0006	<0.0004	<0.0009
	10	08/30/18	<0.3	<3.8	<13	0.0006	0.001	<0.0004	<0.001
SVP-2	8	08/30/18	0.4	<3.7	<12	<0.0005	0.0007	<0.0004	<0.001
	10	08/30/18	<0.3	<0.8	<13	<0.0005	<0.0006	<0.0004	<0.001
SVP-3	8	08/30/18	<0.3	4.9	13	<0.0005	<0.0006	<0.0004	<0.001
	10	08/30/18	<0.3	<4.0	<13	<0.0005	<0.0006	<0.0004	<0.001
MTCA Method A Cleanup Level:			30	2,000	2,000	0.03	7	6	9

EXPLANATIONS:

Bold results indicate compound detected above MTCA Method A Cleanup Level.

GRO = Gasoline-range organics

DRO = Diesel-range organics

HRO = Heavy oil-range organics

D = Duplicate sample

ft = feet

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

USEPA = United States Environmental Protection Agency

< = Analyte not detected at or above method detection limit; value represents limit.

ANALYTICAL METHODS:

GRO analyzed by NWTPH-Gx

DRO and HRO analyzed by NWTPH-Dx

BTEX analyzed by USEPA 8260C

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - Fuel Additives, Naphthalenes, and PAHs
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	Fuel Additives			Naphthalenes				Carcinogenic PAHs							
			MTBE	EDB	EDC	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene	Total Naphthalenes	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz[a,h] anthracene	Indeno (1,2,3-cd) pyrene	Naphthalene
SB-1	6	08/23/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	12	08/27/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	14	08/27/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	16	08/27/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	51	08/27/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-2	6	08/24/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	8	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	11	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	15	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	20	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-3	10	08/28/18	--	--	--	<0.009	--	--	<0.009	--	--	--	--	--	--	--	--
	12	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	16	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	24	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-4	6	08/23/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	12	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	12 (D)	08/29/18	--	--	--	<0.008	--	--	<0.008	--	--	--	--	--	--	--	--
	14	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	25	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-5	6	08/23/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	12	08/28/18	--	--	--	<0.009	--	--	<0.009	--	--	--	--	--	--	--	--
	14	08/28/18	<0.029	<0.023	<0.035	0.020	--	--	0.020	<0.0008	<0.0008	<0.0008	<0.0008	0.0005	<0.0008	<0.0008	0.0005
	17.5	08/28/18	<0.023	<0.018	<0.027	0.34	--	--	0.34	0.0008	<0.0007	<0.0007	<0.0007	0.002	<0.0007	<0.0007	0.0028
	24	08/28/18	--	--	--	0.012	--	--	0.012	--	--	--	--	--	--	--	--
	30	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-6	2	08/24/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	6	08/24/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-7	6	08/23/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	10	08/27/18	<0.0005	<0.0004	<0.0006	0.034	--	--	0.034	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009
	14	08/27/18	--	--	--	0.015	--	--	0.015	--	--	--	--	--	--	--	--
	22	08/27/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	28	08/27/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-8	2	08/29/18	--	--	--	0.033	--	--	0.033	--	--	--	--	--	--	--	--
	12	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	14	08/29/18	--	--	--	0.011	--	--	0.011	--	--	--	--	--	--	--	--
	25	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SB-9	7	08/31/18	--	--	--	0.040	--	--	0.040	--	--	--	--	--	--	--	--
	11.5	08/31/18	--	--	--	0.009	--	--	0.009	--	--	--	--	--	--	--	--

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - Fuel Additives, Naphthalenes, and PAHs
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	Fuel Additives			Naphthalenes				Carcinogenic PAHs							
			MTBE	EDB	EDC	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene	Total Naphthalenes	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz[a,h] anthracene	Indeno (1,2,3-cd) pyrene	Naphthalene
UST-1	8	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
UST-2	8	08/28/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	8 (D)	08/28/18	--	--	--	0.1	--	--	0.1	--	--	--	--	--	--	--	--
UST-3	8	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
UST-4	8	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
UST-5	8	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
UST-6	8	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
UST-7	8	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
UST-8	8	08/29/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
SVP-1	8	08/30/18	--	--	--	<0.007	--	--	<0.007	--	--	--	--	--	--	--	--
	10	08/30/18	--	--	--	0.011	--	--	0.011	--	--	--	--	--	--	--	--
SVP-2	8	08/30/18	--	--	--	0.017	--	--	0.017	--	--	--	--	--	--	--	--
	10	08/30/18	--	--	--	<0.008	--	--	<0.008	--	--	--	--	--	--	--	--
SVP-3	8	08/30/18	--	--	--	0.64	--	--	0.64	--	--	--	--	--	--	--	--
	10	08/30/18	--	--	--	<0.009	--	--	<0.009	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Level:			0.1	0.005	--	See Total Naphthalenes			5	See Total Carcinogenic PAHs (Total cPAHs)							0.1

EXPLANATIONS:

ft = feet
D = Duplicate sample
mg/kg = milligrams per kilogram
EDB = Ethylene dibromide
EDC = Ethylene dichloride
MTBE = Methyl tertiary-butyl ether
MTCA = Model Toxics Control Act
PAHs = Polynuclear aromatic hydrocarbons
USEPA = United States Environmental Protection Agency
< = Analyte not detected at or above method detection limit; value represents limit.

ANALYTICAL METHODS:

MTBE, EDB, and EDC analyzed by USEPA 8260C
PAHs analyzed by USEPA 8270D SIM
Naphthalenes analyzed by USEPA 8270D

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - EPH and VPH
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	EPH							VPH										
			>C10-C12 Aliphatic	>C10-C12 Aromatic	>C12-C16 Aliphatic	>C12-C16 Aromatic	>C16-C21 Aliphatic	>C16-C21 Aromatic	>C21-C34 Aliphatic	>C21-C34 Aromatic	C5-C6 Aliphatic	C6-C8 Aliphatic	C8-C10 Aliphatic	C8-C10 Aromatic	Benzene	Ethylbenzene	MTBE	Toluene	o-Xylenes	m,p-Xylenes
SB-1	6	08/23/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/27/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14	08/27/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	16	08/27/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	51	08/27/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-2	6	08/24/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-3	10	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	16	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-4	24	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6	08/23/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12 (D)	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-5	14	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6	08/23/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14	08/28/18	6.4	<1.2	<1.2	<1.2	<3.7	<2.5	<7.5	<2.5	<2.97	52.8	32.7	10.9	<0.0594	<0.0594	<0.0594	<0.0594	0.155	<0.119
SB-6	17.5	08/28/18	8.3	3	2.1	4.4	<3.2	<2.1	<6.3	<2.1	<2.49	9.67	108	93.0	<0.0498	0.751	<0.0498	<0.0498	2.57	5.45
	24	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-7	2	08/24/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6	08/24/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-8	6	08/23/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10	08/27/18	<1.3	<1.3	<1.3	<1.3	<3.9	<2.6	<7.7	<2.6	<3.16	<3.16	<3.16	<3.16	0.654	0.177	<0.0632	0.214	0.0997	0.449
	14	08/27/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	22	08/27/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-9	28	08/27/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-8	14	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-9	7	08/31/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11.5	08/31/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - EPH and VPH
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	EPH								VPH									
			>C10-C12 Aliphatic	>C10-C12 Aromatic	>C12-C16 Aliphatic	>C12-C16 Aromatic	>C16-C21 Aliphatic	>C16-C21 Aromatic	>C21-C34 Aliphatic	>C21-C34 Aromatic	C5-C6 Aliphatic	C6-C8 Aliphatic	C8-C10 Aliphatic	C8-C10 Aromatic	Benzene	Ethylbenzene	MTBE	Toluene	o-Xylenes	m,p-Xylenes
UST-1	8	08/28/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
UST-2	8	08/28/18	69	3.5	550	96	340	210	32	16	<2.76	<2.76	12.7	9.74	<0.0552	<0.0552	<0.0552	<0.0552	<0.0552	<0.110
	8 (D)	08/28/18																		
UST-3	8	08/29/18	<1.1	<1.1	29	1.1	130	37	15	6.3	<2.60	<2.60	<2.60	<2.60	<0.0519	<0.0519	<0.0519	<0.0519	<0.0519	<0.104
UST-4	8	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
UST-5	8	08/29/18	<1.1	<1.1	5.0	<1.1	66	13	29	14	<2.89	<2.89	<2.89	<2.89	<0.0578	<0.0578	<0.0578	<0.0578	<0.0578	<0.116
UST-6	8	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
UST-7	8	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
UST-8	8	08/29/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVP-1	8	08/30/18	<1.1	<1.1	<1.1	<1.1	<3.2	<2.1	7.1	6.1	<2.48	<2.48	<2.48	<2.48	<0.00496	<0.0496	<0.0496	<0.0496	<0.0496	<0.0993
	10	08/30/18	<1.2	<1.2	<1.2	<1.2	<3.7	<2.5	<7.4	<2.5	<3.06	<3.06	<3.06	<3.06	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	<0.123
SVP-2	8	08/30/18	<1.2	<1.2	<1.2	<1.2	<3.6	<2.4	<7.2	<2.4	<3.85	<3.85	<3.85	<3.85	<0.0770	<0.0770	<0.0770	<0.0770	<0.0770	<0.154
	10	08/30/18	<1.2	<1.2	<1.2	<1.2	<3.7	<2.4	<7.3	<2.4	<3.23	<3.23	<3.23	<3.23	<0.0647	<0.0647	<0.0647	<0.0647	<0.0647	<0.129
SVP-3	8	08/30/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10	08/30/18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

For EPH analyses all samples were re-extracted outside the method required holding time. Results for the first trial are included in the table. For the results of the second trial refer to the laboratory report.

EXPLANATIONS:

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

D = Duplicate sample

EPH = Extractable Petroleum Hydrocarbons

ft = feet

mg/kg = milligrams per kilogram

MTBE = Methyl t-butyl ether

VPH = Volatile Petroleum Hydrocarbons

< = Analyte is not detected at or above the method detection limit; value represents limit.

-- = not analyzed

ANALYTICAL METHODS:

EPHs analyzed by NWEPH Method

VPHs analyzed by NWVPH Method

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS - Metals and Other Non-Petroleum Contaminants
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	Metals	Halogenated VOCs				PCBs							
			Lead	Methylene Chloride	PCE	1,1,1-TCA	TCE	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Total PCBs
SB-1	6	08/23/18	5.35	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/27/18	2.40	--	--	--	--	--	--	--	--	--	--	--	--
	14	08/27/18	<2.35	--	--	--	--	--	--	--	--	--	--	--	--
	16	08/27/18	1.35	--	--	--	--	--	--	--	--	--	--	--	--
	51	08/27/18	1.93	--	--	--	--	--	--	--	--	--	--	--	--
SB-2	6	08/24/18	4.02	--	--	--	--	--	--	--	--	--	--	--	--
	8	08/28/18	1.48	--	--	--	--	--	--	--	--	--	--	--	--
	11	08/28/18	2.66	--	--	--	--	--	--	--	--	--	--	--	--
	15	08/28/18	5.29	--	--	--	--	--	--	--	--	--	--	--	--
	20	08/28/18	4.14	--	--	--	--	--	--	--	--	--	--	--	--
SB-3	10	08/28/18	5.42	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/28/18	2.50	--	--	--	--	--	--	--	--	--	--	--	--
	16	08/28/18	2.06	--	--	--	--	--	--	--	--	--	--	--	--
	24	08/28/18	3.41	--	--	--	--	--	--	--	--	--	--	--	--
SB-4	6	08/23/18	4.72	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/29/18	2.37	--	--	--	--	--	--	--	--	--	--	--	--
	12 (D)	08/29/18	2.67	--	--	--	--	--	--	--	--	--	--	--	--
	14	08/29/18	1.40	--	--	--	--	--	--	--	--	--	--	--	--
	25	08/29/18	1.27	--	--	--	--	--	--	--	--	--	--	--	--
SB-5	6	08/23/18	4.51	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/28/18	3.50	--	--	--	--	--	--	--	--	--	--	--	--
	14	08/28/18	2.36	--	--	--	--	--	--	--	--	--	--	--	--
	17.5	08/28/18	1.70	--	--	--	--	--	--	--	--	--	--	--	--
	24	08/28/18	1.76	--	--	--	--	--	--	--	--	--	--	--	--
	30	08/29/18	1.54	--	--	--	--	--	--	--	--	--	--	--	--
SB-6	2	08/24/18	2.20	--	--	--	--	--	--	--	--	--	--	--	--
	6	08/24/18	2.20	--	--	--	--	--	--	--	--	--	--	--	--
SB-7	6	08/23/18	16.2	--	--	--	--	--	--	--	--	--	--	--	--
	10	08/27/18	5.51	--	--	--	--	--	--	--	--	--	--	--	--
	14	08/27/18	2.18	--	--	--	--	--	--	--	--	--	--	--	--
	22	08/27/18	2.62	--	--	--	--	--	--	--	--	--	--	--	--
	28	08/27/18	2.73	--	--	--	--	--	--	--	--	--	--	--	--
SB-8	2	08/29/18	22.8	--	--	--	--	--	--	--	--	--	--	--	--
	12	08/29/18	<2.34	--	--	--	--	--	--	--	--	--	--	--	--
	14	08/29/18	<12.5	--	--	--	--	--	--	--	--	--	--	--	--
	25	08/29/18	<0.542	--	--	--	--	--	--	--	--	--	--	--	--
SB-9	7	08/31/18	27.3	--	--	--	--	--	--	--	--	--	--	--	--
	11.5	08/31/18	25.4	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS - Metals and Other Non-Petroleum Contaminants
2021 6th Street
Bremerton, Washington
Concentrations reported in mg/kg

Boring ID	Depth (ft)	Sample Date	Metals	Halogenated VOCs				PCBs							
			Lead	Methylene Chloride	PCE	1,1,1-TCA	TCE	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Total PCBs
UST-1	8	08/28/18	4.19	--	--	--	--	--	--	--	--	--	--	--	--
UST-2	8	08/28/18	2.51	<0.10	<0.026	<0.031	<0.026	<0.0041	<0.0052	<0.0090	<0.0037	<0.0037	<0.0037	<0.0055	<0.0090
	8 (D)	08/28/18	1.98	<0.10	<0.026	<0.031	<0.026	<0.0039	<0.0050	<0.0087	<0.0036	<0.0036	<0.0036	<0.0054	<0.0087
UST-3	8	08/29/18	4.47	<0.002	<0.0004	<0.0005	<0.0004	<0.0039	<0.0049	<0.0086	<0.0035	<0.0035	<0.0035	<0.0053	<0.0086
UST-4	8	08/29/18	11.9	--	--	--	--	--	--	--	--	--	--	--	--
UST-5	8	08/29/18	8.24	<0.002	<0.0005	<0.0006	<0.0005	<0.0040	<0.0051	<0.0089	<0.0037	<0.0037	<0.0037	<0.0054	<0.0089
UST-6	8	08/28/18	2.64	--	--	--	--	--	--	--	--	--	--	--	--
UST-7	8	08/29/18	9.51	--	--	--	--	--	--	--	--	--	--	--	--
UST-8	8	08/29/18	3.21	--	--	--	--	--	--	--	--	--	--	--	--
SVP-1	8	08/30/18	41.3	<0.002	0.0005	<0.0006	<0.0005	<0.020	<0.025	<0.043	<0.018	<0.018	<0.018	<0.027	<0.043
	10	08/30/18	9.82	<0.002	0.0006	<0.0006	<0.0005	<0.0045	<0.0057	<0.010	<0.0041	<0.0041	<0.0041	<0.0061	<0.010
SVP-2	8	08/30/18	11.8	<0.002	<0.0005	<0.0006	<0.0005	<0.0044	<0.0057	<0.0099	<0.0041	<0.0041	<0.0041	<0.0061	<0.0099
	10	08/30/18	7.53	<0.002	<0.0005	<0.0006	<0.0005	<0.0045	<0.0058	<0.010	<0.0041	<0.0041	<0.0041	<0.0061	<0.010
SVP-3	8	08/30/18	10.9	--	--	--	--	--	--	--	--	--	--	--	--
	10	08/30/18	7.11	--	--	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Levels:			250	0.02	0.05	2	0.03	See Total PCBs							1

EXPLANATIONS:

ft = feet
D = Duplicate sample
mg/kg = milligrams per kilogram
MTCA = Model Toxics Control Act
PCBs = polychlorinated biphenyls
PCE = Tetrachloroethylene
TCA = Trichloroethane
TCE = Trichloroethylene
USEPA = United States Environmental Protection Agency
VOCs = Volatile organic compounds
< = Analyte not detected at or above method detection limit; value represents limit.
1 MTCA Method A Cleanup Level of 1 mg/kg represents a total value for all PCBs

ANALYTICAL METHODS:

VOCs analyzed by USEPA 8260C
PCBs analyzed by USEPA 8082A
Lead analyzed by USEPA 6010D

TABLE 5
SUMMARY OF SOIL GAS ANALYTICAL DATA
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations in $\mu\text{g}/\text{m}^3$

Sample ID	Sample Date	MTBE	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylenes	Naphthalene
SVP-1	09/27/18	<0.033	0.46 J	1.8 J	0.12 J	0.35 J	0.34 J	0.23 J
SVP-2	09/27/18	<0.031	0.26 J	0.26 J	0.096 J	0.15 J	0.083 J	<0.054
SVP-2 (D)	09/27/18	<0.031	0.58 J	0.8 J	0.26 J	0.7 J	0.52 J	0.16 J
SVP-3	09/27/18	<0.03	0.18 J	1.7 J	0.3 J	0.66 J	0.47 J	1.4 J
Equipment Blank	09/26/18	<0.048	0.38 J	5.7	0.46 J	1.5 J	0.33 J	<0.082
	09/28/18	<0.044	0.36 J	14	0.58 J	2.1 J	0.47 J	1.1 J
Method Blank	NA	<0.0093	<0.02	<0.011	<0.0097	<0.019	<0.0098	<0.016
Sub-Slab Soil Gas Screening Level								
MTCA Method B		320	10.7	76,200	15,200	1,500	1,500	2.45

EXPLANATIONS:

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
(D) = Duplicate sample
J = Laboratory Estimated Value
MTCA = Model Toxics Control Act
MTBE = Methyl Tertiary Butyl Ether
NA == Not applicable
USEPA = United States Environmental Protection Agency
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter
< = Analyte not detected above laboratory method detection limits

ANALYTICAL METHOD:

BTEX, MTBE, and Naphthalene analyzed by USEPA Method TO-15 Modified.

TABLE 6
SUMMARY OF SOIL GAS ANALYTICAL DATA (FIXED GASES)
NEWMAN'S CHEVRON
2021 6th Street
Bremerton, Washington
Concentrations listed as percentage (unless otherwise noted)

Sample ID	Sample Date	Hydrogen	Oxygen	Carbon Monoxide	Methane	Carbon Dioxide	Helium (ppm)
SVP-1	09/27/18	<0.14	14.6	<0.14	<0.14	5.79	69
SVP-2	09/27/18	<0.14	13.8	<0.14	<0.14	5.71	250
SVP-2 (D)	09/27/18	<0.14	13.8	<0.14	<0.14	5.68	250
SVP-3	09/27/18	<0.13	17.9	<0.13	<0.13	3.63	140
Equipment Blank	09/26/18	<0.21	12.5	<0.21	<0.21	<0.21	3,700
	09/02/18	<0.19	19.9	<0.19	<0.19	<0.19	850
Method Blank	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<25

EXPLANATIONS:

ASTM = American Society for Testing and Materials
(D) = Duplicate sample
NA = Not applicable
ppm = parts per million
< = Analyte not detected above laboratory method reporting limits

ANALYTICAL METHODS:

Hydrogen, Oxygen, Carbon Monoxide, Methane, Carbon Dioxide analyzed by ASTM D1945 Modified.
Helium analyzed by 3C Modified.