terraphase engineering

FINAL

June 27, 2025

Estate of Cheryl A. Hamilton

Michelle Rivera, Executor
PO BOX 7686
Tacoma, Washington 98417

sent via email to seashelley10atpb@icloud.com

Subject: Additional Subsurface Characterization of Soil and Groundwater, Property IDs 795500200201 and 795500200800, Main Street, Pacific Beach, Washington 98571

Dear Ms. Rivera:

This letter report has been prepared by Terraphase Engineering Inc. (Terraphase), for the Estate of Cheryl A. Hamilton (Client), to document additional subsurface characterization of soil and groundwater of undeveloped land in Pacific Beach, Grays Harbor County, Washington (Site; Figure 1).

1 Site Description

The approximately 0.48-acre Site is comprised of two parcels identified as Grays Harbor County Assessor's Parcel Numbers 795500200201 and 795500200800. The parcels do not have assigned addresses but are located along Main Street in Pacific Beach, Washington. The Site is currently vacant with concrete foundations of former on-site buildings visible on the central portion. A site diagram, indicating approximate parcel boundaries, is presented as Figure 2.

2 Geology and Hydrogeology

According to the United States Geological Survey, the Site is primarily underlain by pre-late Wisconsinan alpine outwash consisting of stratified sand, gravel, and cobbles of mostly sandstone and minor basalt. Corresponding to soil data accessed on the United States Department of Agriculture Natural Resources Conservation Service soil survey website and *The EDR Radius Map™ Report with GeoCheck®*, the soils at the Site primarily consist of Halbert muck formed in silty glaciolacustrine sediments over glacial outwash, which are generally poorly drained.[1] The drilling activities performed during this investigation generally encountered the same lithology across six monitoring wells. Underlying approximately 4 inches of asphalt and 1 foot of associated crushed road base, we encountered dark brown silt with organic lenses and pieces of wood in a soft and wet condition, gray-blue silt grading to gray-blue sand with gravel in a medium dense and moist condition, and brown silt in a stiff and moist condition. The thickness of each unit varies across the Site. The material generally agrees with the mapped geology. Geologic logs and monitoring wells construction logs are shown in Attachment A.

[1] Environmental Data Resources Inc., *The EDR Radius Map™ Report with GeoCheck®,* September 17, 2024.

Based on the results of this characterization, shallow groundwater beneath the Site reportedly flows southward. Groundwater impacts at the Site are constrained to the shallowest groundwater system. This represents perched groundwater that saturates approximately the lowest portion of the road base and granular surficial soil above the underlying silts. Deeper, confined aquifer systems are likely to be present in the area of the Site but were not encountered; therefore, these systems are not addressed in this report. The depth to the shallowest groundwater (perched groundwater), as measured in the new monitoring wells installed for this project (Section 4.2), ranges from 2.11 to 3.5 feet below the top of the well casing (TOC; see Section 4.3, Table 1), depending on the specific location.

As discussed in Section 4.3, on May 2, 2025, water levels were measured in each monitoring well during the initial water sampling effort. Water levels were then used to create a local potentiometric surface map for the Site. A May 2025 potentiometric surface map illustrating shallow groundwater gradient in the area of the Site as generally southward, with an overall gradient of 0.06 feet per foot, is presented as Figure 3.

3 Site History and Previous Work

According to the findings provided in a Phase I environmental site assessment (ESA) report,[2] an automotive storage garage was constructed on the central portion of the Site in 1924. The garage was equipped with two fuel-dispensing pumps to the southeast of the garage. In 1978, two gasoline underground storage tanks were reportedly removed from the Site, and the garage was demolished by 1979. The historical operation of a gasoline fueling station and associated storage of petroleum products on the Site was identified as a recognized environmental condition.

Following the Phase I ESA, a limited Phase II ESA was performed at the Site on October 7, 2024. Terraphase drilled seven soil borings in locations identified during the Phase I as having the potential for soil and groundwater impacts from historical fueling operations. Soil and groundwater samples were collected for laboratory analyses. Analytical results identified concentrations of either total petroleum hydrocarbons (TPH) in the gasoline, diesel and oil ranges (TPH-g, TPH-d, and TPH-o, respectively) and/or total lead above the Model Toxics Control Act (MTCA) Method A cleanup levels (CULs) in one soil sample and five groundwater samples. A summary of soil and groundwater analytical results are presented in Table 1 and 2 below and shown on Figures 6 and 7.

A soil sample collected from boring B3 contained TPH-g at a concentration of 280 milligrams per kilogram (mg/kg), above the MTCA Method A CUL.

[2] Terraphase, *Phase I Environmental Site Assessment, Pacific Beach Property, Grays Harbor County Assessor's Parcel Numbers 795500200201 and 795500200800, Pacific Beach, Washington,* October 9, 2024.

Table 1: Soil Analytical Results for Site Explorations

Boring	Sample No.	Depth	TPH (mg/kg)			VOCs[1] (mg/kg)				Total Lead (mg/kg)
			Gas	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Xylenes	
B1	L24J024-08	2'5"- 4'5"	ND	ND	ND	ND	ND	ND	ND	11
B2	L24J024-09	2'5"- 4'4"	39	ND	ND	ND	ND	ND	ND	12
B3	L24J024-10	2'9"- 4'7"	**280**	ND	ND	ND	ND	ND	ND	ND
B4	L24J024-11	2'7"- 4'7"	24	ND	ND	ND	ND	ND	ND	10
B5	L24J024-12	2'- 6'7"	ND	ND	ND	ND	ND	ND	ND	8.1
B6	L24J024-13	1'8"- 4'6"	ND	ND	ND	ND	ND	ND	ND	9.3
B7	L24J024-14	3'2"- 5'10"	ND	ND	ND	ND	ND	ND	ND	9.1
MTCA Method A Unrestricted Land Use			**100[2]**	**2,000**	**2,000**	**0.03**	**7**	**6**	**9**	**250**

Note:

1 = Samples were analyzed for using EPA Method 8260D.

2 = Gasoline mixtures without benzene and total ethylbenzene, toluene and xylene are less than 1%.

mg/kg = milligrams per kilogram.

MTCA = Model Toxics Control Act.

ND = Not detected above the laboratory reporting limit.

Values Bolded Red = Concentrations above applicable clean-up levels (CULs).

VOCs = volatile organic compounds.

Groundwater samples collected from borings B2 and B3 contained concentrations of TPH-g at concentrations of 9,000 and 2,500 micrograms per liter (µg/L), respectively, and TPH-o at concentrations of 530 and 780 µg/L, respectively, above the MTCA Method A CUL. Total lead was detected above the MTCA Method A CUL in the groundwater samples collected from borings B1, B2, B3, B5, and B6 (390, 160, 210, 48 , and 60 µg/L, respectively).

Table 2: Groundwater Analytical Results for Site Explorations

Boring	Sample No.	Depth	TPH (µg/L)			VOCs[1] (µg/L)				Total Lead (µg/L)
			Gas	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Xylenes	
B1	L24J024-01	2'3"	ND	ND	ND	ND	ND	ND	ND	**390**
B2	L24J024-02	3'3"	**9,000**	ND	**530**	ND	ND	42	50	**160**
B3	L24J024-03	3'5"	**2,500**	ND	**780**	ND	ND	ND	ND	**210**
B4	L24J024-04	6'2"	ND	ND	ND	ND	ND	ND	ND	10
B5	L24J024-05	3'4"	ND	300	ND	ND	ND	ND	ND	**48**
B6	L24J024-06	2'1"	ND	ND	ND	ND	ND	ND	ND	**60**
B7	L24J024-07	5'6"	ND	No data	No data	ND	ND	ND	ND	No data
MTCA Method A Groundwater			**1,000/800[2]**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**15**

Note:

µg/L = micrograms per liter.

1 = Samples were analyzed using EPA Method 8260D.

2 = Gasoline-range organics without and with detectable benzene in groundwater.

ND = Not detected.

Values Bolded Red = Concentrations above applicable CULs.

4 Field Activities

This section describes field activities conducted in May 2025 at the Site.

4.1 Drilling

Due to the soil and groundwater exceedances identified during the October 2024 site investigation, additional sampling and monitoring were recommended and authorized for the Site. On May 1 and 2, 2025, Terraphase was on Site to direct drilling activities, construct groundwater monitoring wells, and collect soil and groundwater samples for laboratory analyses. Holocene Drilling drilled borings for monitoring wells MW-1 through MW-6 utilizing a Geoprobe direct-push drill rig to approximately 15 feet below ground surface (bgs). During drilling, we initially encountered water at 5.1, 5.53, 3.5, and 2.53 feet bgs in MW-1, MW-4, MW-5, and MW-6, respectively. We did not initially encounter water in MW-2

and MW-3. It is our opinion that the absence of water in some wells suggests that the encountered water is perched and does not correspond to the regional water table. Well locations are shown on Figure 2 and logs of the materials encountered in each well are presented in Attachment A.

During drilling, a Terraphase geologist field screened the materials encountered in each soil sample for signs of impacts using visual and olfactory indicators and a handheld photoionization detector. Olfactory evidence indicated strong hydrocarbon odor in the upper 5 feet in MW-1 and MW-2which corresponded to the smear zone and groundwater interface. The remaining wells did not exhibit a string hydrocarbon odor. Field screening indicated elevated readings in the upper 3 to 7 feet of soils in the borings for monitoring wells MW-1 and MW-2 (380 and 769 parts per million, respectively), and were taken from at the groundwater interface. MW-1 and MW-2 are in the adjoining Main Street right-of-way south of the approximate areas where the two former fuel pumps were located. The remaining samples obtained did not exhibit field screening or olfactory indicators of petroleum impacts and were taken between 4 to 9 feet depth within the smear zone and above the groundwater interface at the time of drilling.

4.2 Monitoring Well Construction

Following the drilling of each well boring, Terraphase's on-site geologist directed the installation of permanent monitoring wells. Figures 3 through 8 present construction diagrams for monitoring wells MW-1 through MW-6, respectively. All six monitoring wells were constructed similarly, setting 10 feet of 2-inch-diameter prepacked PVC well-screen between 4 to 14 feet bgs, except for MW-1, which set 5 feet of screen from 4 to 9 feet bgs. This screen interval was selected based on groundwater elevations observed during drilling, and positions of the screens across the current groundwater interface and the portion of the boring identified during field screening as having the most elevated concentrations for petroleum hydrocarbons. As hydrocarbons have a specific gravity less than 1 (floats in water), placement of the well screens at the groundwater interface allows sampling for worst-case groundwater impacts in the shallow groundwater within the silt formation (see Section 2). Each well has a 2-inch-diameter PVC riser between the top of the screen and ground surface. The annular space around the outside of each well-casing (riser) was sealed with bentonite, and each well was completed with a flush-mounted steel monument.

Following completion of the monitoring wells, each well was developed with a submersible pump or bailer to remove any loose materials from the surrounding formation to ensure proper groundwater flow. The wells were then surveyed by a Washington licensed professional surveyor. Figure 2 shows the surveyed locations of MW-1 through MW-6. Appendix A shows the surveyed TOC elevation for each well, summarized in Table 1 below. All water level measurements presented in this report are referenced to the surveyed TOC elevations to reflect true water level elevations.

4.3 Potentiometric Surface Map Construction

On May 2, 2025, water levels were measured in each of the six wells prior to the initial groundwater sampling event. Table 3 below presents the depth to water (below TOC) and the corresponding water level elevation measured in each well during the sampling event. The water level elevations were then used to construct a water level contour (potentiometric surface) map of the Site (specifically for

groundwater within shallow soils). Figure 3 presents the shallow groundwater potentiometric map for the sampling event.

As discussed in Section 4.1, these maps show that the shallow groundwater gradient at the Site was generally southward with an overall gradient of 0.06 feet per foot.

Table 3: May 2, 2025, Groundwater Measurements

Monitoring Well	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	32.15	2.11	30.04
MW-2	32.25	3.37	28.88
MW-3	32.34	2.85	29.49
MW-4	31.52	2.98	28.54
MW-5	31.32	2.67	28.65
MW-6	31.07	2.53	28.54

5 Sample Collection and Analytical Methods

All soil and groundwater samples for this project were collected in appropriate laboratory-supplied, sterile containers and immediately placed in an ice-filled cooler maintaining a temperature below 4° Celsius pending delivery to the laboratory. All samples were delivered to the laboratory under appropriate chain-of-custody procedures and analyzed within the prescribed holding times.

Soil and groundwater samples were analyzed for TPH-g using Washington Department of Ecology (Ecology) Method NWTPH-GX; MTCA volatile organic compounds (VOCs) using United States Environmental Protection Agency (EPA) Method 8260D; and total lead using the EPA Method 7010 series. Soil samples were also analyzed for TPH-d and TPH-o using Ecology Method NWTPH-Dx. Samples were submitted to Libby Environmental, Inc. (Libby), an accredited laboratory in the state of Washington, for analysis.

Libby provided required quality assurance/quality control (QA/QC) analyses with each analytical report. Our review of the QA/QC analyses did not reveal any discrepancies that would affect our final interpretations, conclusions, or use of the data. The complete laboratory reports from Libby, including the required QA/QC analyses, are included in Attachment B.

6 Laboratory Analyses of Soil Samples

Representative soil samples from each well were submitted for laboratory analysis of TPH-g, TPH-d, and TPH-o, MTCA VOCs, and total lead. Soil samples selected for analysis were primarily obtained above the

water level at the time of drilling and within the smear zone, when found, or where field screening indicated elevated soil impacts.

A summary of the laboratory results is presented in Table 4.

Table 4: Soil Analytical Results for Site Explorations

Boring	Sample No.	Depth	TPH[1] (mg/kg)			VOCs[2] (mg/kg)							Total lead[3] (mg/kg)
			Gas	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	2- Methyl-naphthalene	1- Methyl-naphthalene	
MW-1	L25E014-01	4'	**1,000**	<81	<410	<0.031	1.6	**14**	**66**	**12**	3.2	1.3	17
MW-2	L25E014-02	7'	**850**	<75	<370	**0.084**	0.21	3.3	**18**	4.1	2.3	0.91	9.2
MW-3	L25E014-03	4'8"	<14	<80	<400	<0.029	<0.14	<0.072	<0.21	<0.14	<0.57	<0.57	8.7
MW-4	L25E014-04	4'	<16	<78	<390	<0.031	<0.16	<0.078	<0.23	<0.16	<0.62	<0.62	<7.8
MW-5	L25E014-05	6'	<14	<79	<390	<0.028	<0.14	<0.071	<0.21	<0.21	<0.57	<0.57	8.9
MW-6	L25E014-06	9'	<12	<69	<340	<0.023	<0.12	<0.058	<0.17	<0.12	<0.46	<0.46	9.7
MTCA Method A Unrestricted Land Use CUL			**30[4]**	**2,000**	**2,000**	**0.03**	**7**	**6**	**9**	**5**	**N/A**	**N/A**	**250**
MTCA Method B Non-Cancer Unrestricted Land Use CUL			**N/A**	**N/A**	**N/A**	**N/A**	**6400**	**8000**	**16000**	**1600**	**320**	**5,600**	**N/A**
MTCA Method B Cancer Unrestricted Land Use CUL			**N/A**	**N/A**	**N/A**	**18**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**20**	**N/A**

Note:

1 = Samples were analyzed for using NWTPH-Gx for TPH-g and NWTPH-Dx/Dx extended for TPH-d, and TPH-o.

2 = Samples were analyzed for VOCs using EPA Method 8260D.

3= Samples were analyzed for total lead using the EPA Method 7010 series.

4= The MTCA Method A CUL for TPH-g with benzene present is 30 mg/kg.

N/A- not applicable

ND = Not detected above the laboratory reporting limit.

Values Bolded Red = Concentrations above applicable CULs.

7 Laboratory Analyses of Groundwater

Following the monitoring well installation and limited well development, Terraphase sampled water in each monitoring well. Prior to sampling, water levels were measured as shown on Table 3. Despite utilizing low-flow sampling techniques, the groundwater levels decreased up to 4 feet, with the largest

decreases reflected in MW-1 and MW-4. It is our opinion that this is the result of a slow recharge in the silty, near-surface soils. Samples from each well were submitted for laboratory analysis of TPH-g, MTCA VOCs, and total lead. A summary of the laboratory results is presented in Table 5.

Table 5: Groundwater Analytical Results for Site Explorations

Boring	Sample No.	Depth of Sample Intake	TPH[1] (µg/L)	VOCs[2] (µg/L)							Total lead[3] (µg/L)
			Gas	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	2- Methyl-naphthalene	1- Methyl-naphthalene	
MW-1	L25E014-07	8’	**17,000**	2.4	18	190	930	**370**	**150**	74	**25**
MW-2	L25E014-08	8’	**26,000**	**180**	100	550	**2,800**	**430**	**130**	69	5.4
MW-3	L25E014-09	8’	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<5.0	<5.0
MW-4	L25E014-10	8’	190	1.9	<2.0	<1.0	4.3	<5.0	<5.0	<5.0	6.8
MW-5	L25E014-11	4’5”	100	<1.0	<2.0	<1.0	4.2	<5.0	<5.0	<5.0	<5.0
MW-6	L25E014-12	3’5”	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<5.0	<5.0
MTCA Method A Groundwater CUL			**800**	**5**	**1,000**	**700**	**1,000**	**160**	**32**	**560**	**15**
MTCA Vapor Intrusion Groundwater Screening Levels Non-Cancer			**N/A**	**100**	**15,000**	**2,800**	**320**	**160**	**N/A**	**0.17**	**N/A**
MTCA Vapor Intrusion Groundwater Screening Levels Cancer			**N/A**	**2.4**	**N/A**	**N/A**	**N/A**	**8.8**	**N/A**	**N/A**	**N/A**

Note:

1 = Samples were analyzed for using NWTPH-Gx for TPH-g and NWTPH-Dx/Dx extended for TPH-d, and TPH-o.

2 = Samples were analyzed for VOCs using EPA Method 8260D.

3= Samples were analyzed for total lead using the EPA Method 7010 series.

4= The MTCA Method A CUL for TPH-g with benzene present is 30 mg/kg.

N/A- not applicable

ND = Not detected above the laboratory reporting limit.

Values Bolded Red = Concentrations above applicable CULs.

8 Environmental Monitoring Data Submission

For Voluntary Cleanup Program projects, Ecology requires that all data collected on site be submitted to its Electronic Information Management (EIM) system prior to issuance of any closure determination. All

analytical data collected during this project has been or is in the process of being uploaded to Ecology via the EIM portal. As additional work is completed for this project, all new data will also be uploaded to the EIM system as it is acquired. Additionally, Terraphase will attempt to format and upload the previous analytical data from earlier studies (see Section 3).

9 Summary of Findings

As shown in Table 1, soil samples collected from MW-1 and MW-2 contained a concentration of TPH-g above the MTCA Method A CUL. These wells also showed exceedances for ethylbenzene, xylenes, and naphthalene at concentrations above the MTCA Method A CUL in MW-1, and benzene and xylenes in MW-2. The remaining MTCA VOCs in MW-1 and MW-2 were either detected below the applicable MTCA Method A or B CULs or not detected above the laboratory reporting limits (RLs). TPH-d was not detected above the laboratory RL in any of the wells. Total lead was detected above the laboratory RL but below the MTCA Method A CUL in all samples except from MW-4 where lead was not detected above the RL. The approximate aerial extent TPH-g, or MTCA VOCs in soil are shown on Figure 4.

As shown in Table 2, groundwater samples collected from MW-1 contained concentrations of TPH-g, Naphthalene, 2-Methylnaphthalene, and 1-Methylnaphthalene, above the applicable MTCA Method A or B CUL. Laboratory analysis in MW-2 identified TPH-g, benzene, xylenes, Naphthalene, and 2-Methylnaphthalene above the MTCA Method A or B CUL. In the remaining groundwater samples, TPH-g and VOCs were either not detected above laboratory RLs or were detected but at levels below the MTCA Method A CULs.

Lead was detected above the MTCA Method A CUL in the groundwater sample collected from MW-1. Lead was also detected in MW-2 and MW-4 above the laboratory RL but below the MTCA Method A CUL. The approximate aerial extent of TPH-g, MTCA VOCs, or lead in groundwater are shown on Figure 5.

Based on our previous investigation, observations, field screening and the laboratory results, it appears the impacts to soil and groundwater associated with the former on-site underground storage tanks and fuel pumps are relatively well constrained. The extent of soil contamination appears to be confined the property and adjoining right-of-away extending to the south towards the centerline of Main Street (see Figure 4). While the eastern extent of the soil plume has not been completely established, the existing data suggests the eastern extent is likely consistent with the plume geometry confirmed by existing borings. It is our opinion that at least one additional groundwater monitoring well is need to confirm the eastern soil boundary.

Groundwater contamination appears to align with the extents of the soil plume, which is expected based on the data collected to date. As shown of Figure 5, the groundwater plume has been defined to the west, south and north. However, as is the case with the soil plume, the eastern boundary has not been confirmed. At least one additional groundwater monitoring well is needed to confirm the eastern boundary of the groundwater plume. Also, an additional upgrade to groundwater monitoring well will provide better assessment and evaluation of gradient and flow direction over time.

The potential for soil vapor intrusion has not been directly evaluated. Groundwater and soil concentrations on the subject and along the near-property parking strip indicate that there may be a risk of localized soil vapor intrusion if structures were built in that area. Currently, the subject is undeveloped. Evaluation of vapor intrusion risks is appropriate if development could occur in the future.

Concerning potential off-site risks, there is a vacant commercial building and a residential three-plex located across Main Street from the subject. The commercial building is roughly 60 feet from the center of the plume, and the outer wall of the residential building is approximately 65 feet. Soil and groundwater samples collected from wells on the south side of Main Street do not reveal evidence of impact at concentrations that suggest a vapor intrusion risk. Confirmation of soil vapor concentrations at the plume boundaries is needed to confirm the absence of a soil vapor plume with the potential to impact neighboring structures.

10 Conceptual Cleanup Action

Based on the presence of soil contamination near the surface and at the groundwater interface of soil contamination and the presence of groundwater contamination within the same footprint, the most appropriate cleanup action is likely to be the use of a remediation chemistry system using activated carbon and/or oxygenation compounds. The appropriateness of such a system can be evaluated as part of implementing the recommendations below.

11 Recommendation Additional Investigation

Based on the remedial actions and investigations completed to date, (Section 3) and the most recent soil and groundwater investigation documented in this report (Section 4), Terraphase recommends the following actions:

As noted in our scope of work, Terraphase will submit this report along with application materials for entering Ecology's Voluntary Cleanup Program (VCP) to Ecology for review and comment on the work completed and recommended next steps. We recommend additional investigation borings and monitoring well installation as shown on Figure 8, to fully delineate and characterize the site contamination, and improve the monitoring well network. Using information obtained from additional investigative activities, along with feedback from Ecology, a final Remedial Investigation (RI) report and final Cleanup Action Plan (CAP) and Feasibility Study (FS), if needed, will be prepared and submitted to Ecology for review.

Also, we recommend that quarterly groundwater monitoring continue to be conducted for at least one year (three additional quarters) to further assess flow patterns in the shallow groundwater system and the stability of the contamination plume, and that this quarterly monitoring be completed in August, November, and February, preferably after addressing the data gaps as discussed above. Decisions on the exact timing of groundwater monitoring and remediation efforts will be addressed in the RI report. described above.

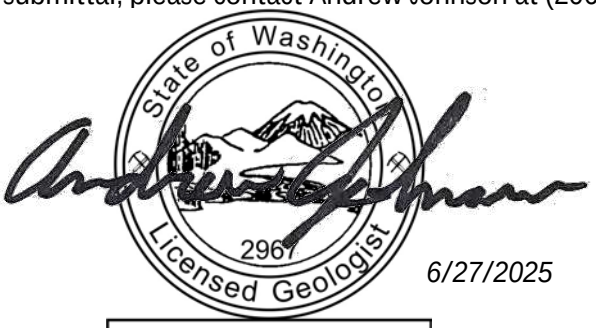
12 Closing

Terraphase is grateful for the opportunity to offer our services on this important project. If you have any questions or comments regarding this submittal, please contact Andrew Johnson at (206) 455-5238 andrew.johnson@terraphase.com.

Sincerely,

for Terraphase Engineering Inc.

Nancy García-Serratos
Staff Geologist



6/27/2025

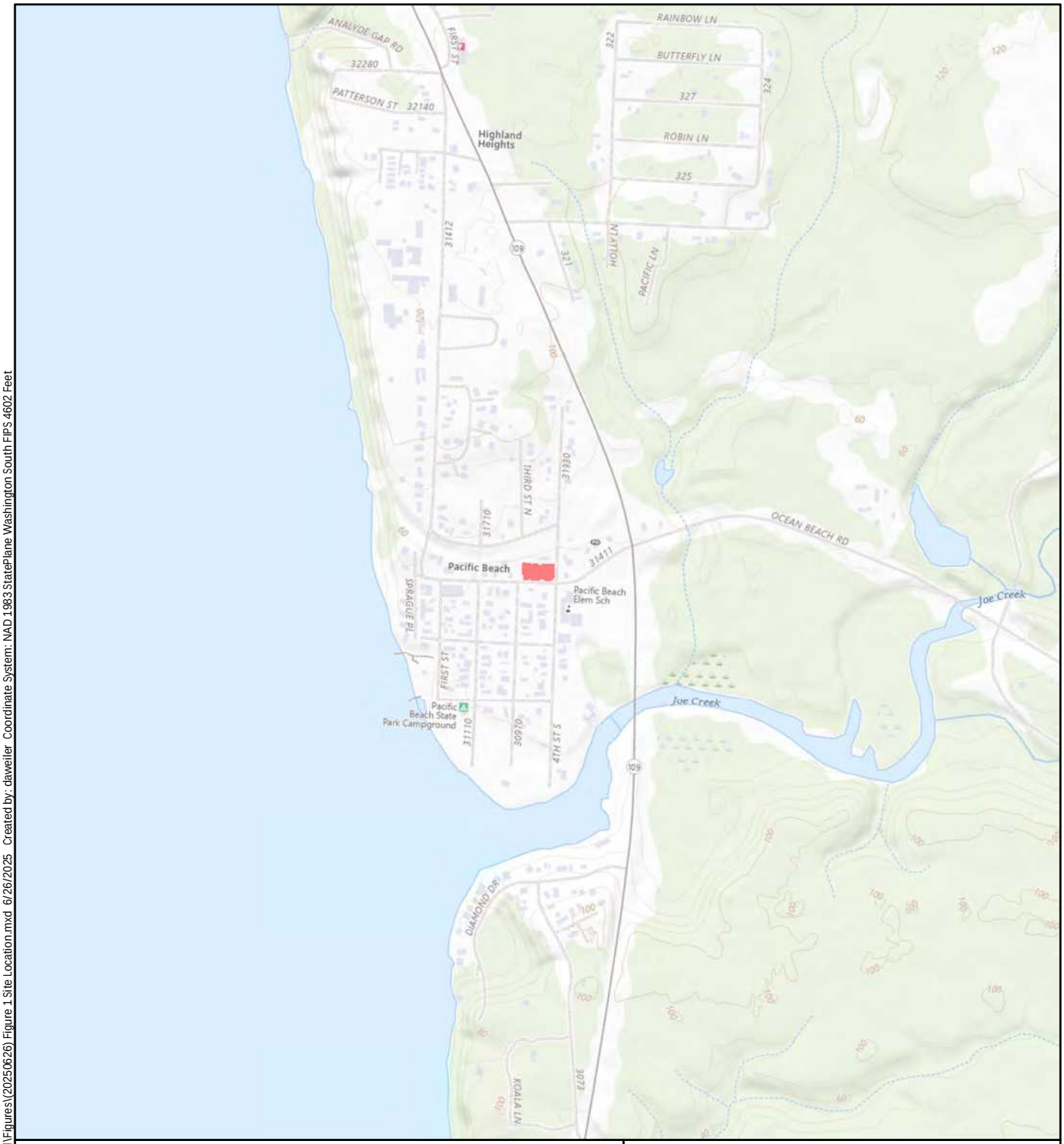
ANDREW RODNEY JOHNSON

Andrew Johnson, LG, RG
Senior Project Geologist

Attachments:

- Figures:
  - 1 Site Location
  - 2 Well Location Map
  - 3 Potentiometric Surface Map
  - 4 Soil – Gasoline Plume Map
  - 5 Groundwater – Gasoline and Benzene Plume Map
  - 6 Soil – Analytical Callout
  - 7 Groundwater – Analytical Callout
  - 8 Proposed Explorations
- Attachment A: Well Logs
- Attachment B: Laboratory Results

Figures



0 500 1,000 2,000 Feet

1 inch = 1,000 feet

N

Legend

Subject Parcels

Notes: Basemap from USGS Moclips Quadrangle

SAFETY FIRST

terraphase engineering

CLIENT: Estate of Cheryl A. Hamilton

PROJECT: Phase II
Main St, Pacific Beach, WA 98571

PROJECT NUMBER: W196.001.003

Site Location

FIGURE 1

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250626) Figure 1 Site Location.mxd 6/26/2025 Created by: daweiler Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

0 25 50 100 Feet

1 inch = 50 feet

Legend

- Boring
- Monitoring Well
- Subject Parcels

Notes: Imagery from ArcGIS, Date: July 29, 2023

SAFETY FIRST

terraphase engineering

CLIENT: Estate of Cheryl A. Hamilton

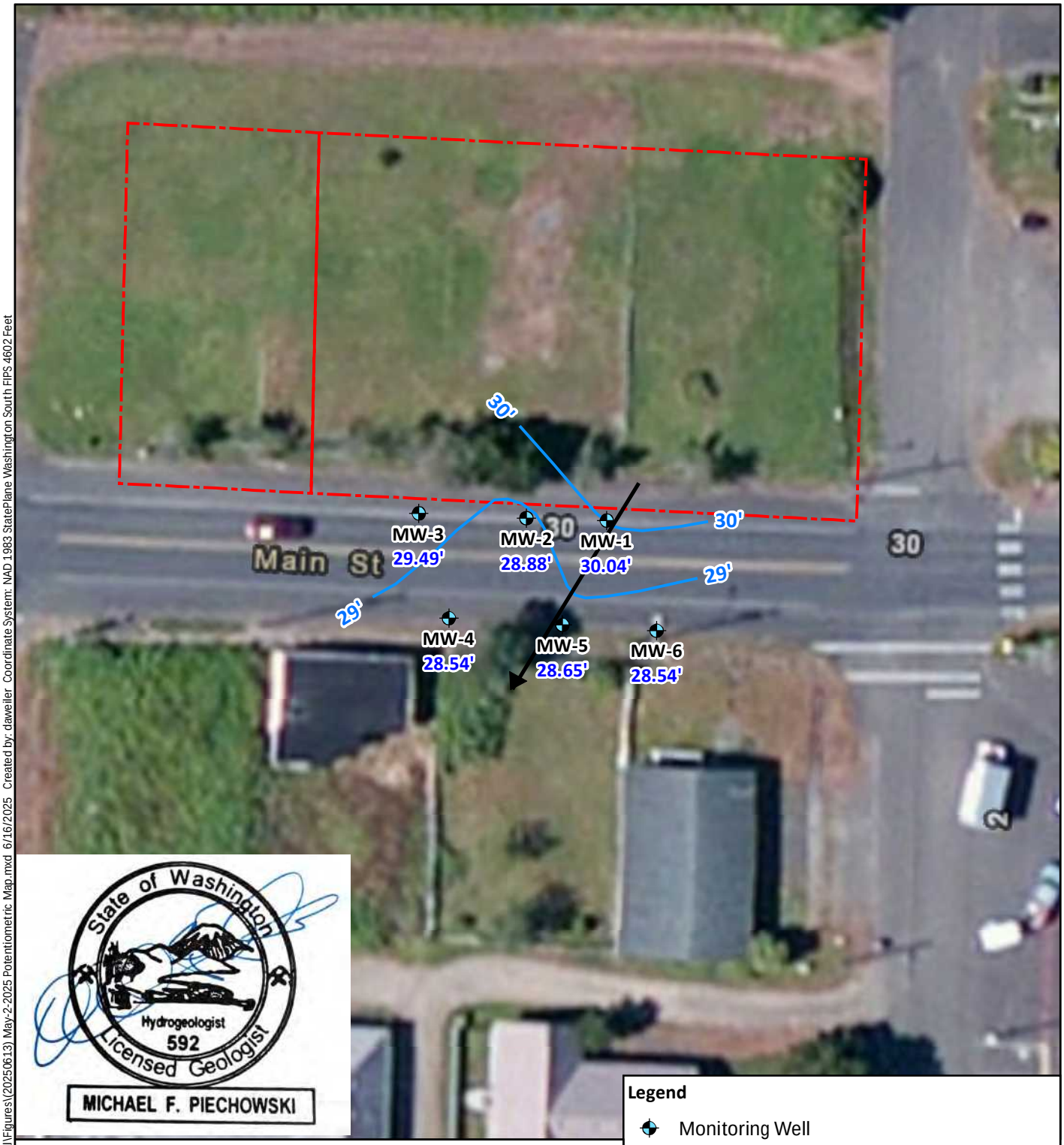
PROJECT: Phase II
Main St, Pacific Beach, WA 98571

PROJECT NUMBER: W196.001.003

Monitoring Well and Boring Location Map

FIGURE 2

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250626) Figure 2 Boring and Monitoring Well Map.mxd 6/26/2025 Created by: daweiler Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet



State of Washington
Hydrogeologist
592
Licensed Geologist
MICHAEL F. PIECHOWSKI

0 20 40 80 Feet

1 inch = 40 feet

N

Legend

- Monitoring Well
- Groundwater Flow Direction
- Potentiometric Surface
- Subject Parcels

Notes: Imagery from ArcGIS, Date: July 29, 2023

SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**May 2, 2025 Potentiometric Map**
terraphase engineering	PROJECT: Phase II Main St, Pacific Beach, WA 98571	
	PROJECT NUMBER: W196.001.002	**FIGURE 3**

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250613) May-2-2025 Potentiometric Map.mxd 6/16/2025 Created by: daweiler Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

0 20 40 80 Feet

1 inch = 40 feet

N

Legend

- Boring
- Monitoring Well
- Approximate Extent of Soil Plume
- Subject Parcels

Notes: Imagery from ArcGIS, Date: July 29, 2023

SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Soil - Gasoline Plume Map**
terraphase engineering	PROJECT: Phase II Main St, Pacific Beach, WA 98571	
	PROJECT NUMBER: W196.001.003	**FIGURE 4**

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250626) Figure 4 Soil Plume.mxd 6/26/2025 Created by: daweiler Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

0 20 40 80 Feet

1 inch = 40 feet

N

Legend

- Boring
- Monitoring Well
- Potentiometric Surface (May 2, 2025)
- Approximate Extent of Groudwater Plume
- Subject Parcels

Notes: Imagery from ArcGIS, Date: July 29, 2023

SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Groundwater - Gasoline and Benzene Plume Map**
terraphase engineering	PROJECT: Phase II Main St, Pacific Beach, WA 98571	
	PROJECT NUMBER: W196.001.003	**FIGURE 5**

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250626) Figure 5 GW Plume.mxd 6/26/2025 Created by: daweiler Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

B-6 (Soil)	
Date	10/7/2025
Total Lead (mg/kg)	9.3

B-5 (Soil)	
	10/7/2025
Total Lead (mg/kg)	8.1

B-2 (Soil)	
Date	10/7/2025
Gasoline (mg/kg)	39
Total Lead (mg/kg)	12

B-1 (Soil)	
Date	10/7/2025
Total Lead (mg/kg)	11

MW-2 (Soil)	
Date	5/1/2025
Gasoline (mg/kg)	850
Benzene (mg/kg)	0.084
Toluene (mg/kg)	0.21
Ethylbenzene (mg/kg)	3.3
Xylenes (mg/kg)	18
Naphthalene (mg/kg)	4.1
2- Methyl-naphthalene (mg/kg)	2.3
1- Methyl-naphthalene (mg/kg)	0.91
Total Lead (mg/kg)	9.2

B-7 (Soil)	
Date	10/7/2025
Total Lead (mg/kg)	9.1

B-3 (Soil)	
Date	10/7/2025
Gasoline (mg/kg)	280

B-4 (Soil)	
Date	10/7/2025
Gasoline (mg/kg)	24
Total Lead (mg/kg)	10

MW-1 (Soil)	
Date	5/1/2025
Gasoline (mg/kg)	1,000
Benzene (mg/kg)	<0.031
Toluene (mg/kg)	1.6
Ethylbenzene (mg/kg)	14
Xylenes (mg/kg)	66
Naphthalene (mg/kg)	12
2- Methyl-naphthalene (mg/kg)	3.2
1- Methyl-naphthalene (mg/kg)	1.3
Total Lead (mg/kg)	17

MW-3 (Soil)	
Date	5/1/2025
Total Lead (mg/kg)	8.7

MW-5 (Soil)	
Date	5/1/2025
Total Lead (mg/kg)	8.9

MW-4 (Soil)	
Date	5/1/2025
Benzene (mg/kg)	<0.031

MW-6 (Soil)	
Date	5/1/2025
Total Lead (mg/kg)	9.7

B1 B2 B3 B4 B5 B6 B7

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6

Main St

30

Legend

- Boring
- Monitoring Well
- Approximate Extent of Soil Plume
- Subject Parcels

Notes: Imagery from ArcGIS, Date: July 29, 2023

SAFETY FIRST

terraphase engineering

0 15 30 Feet

1 inch = 30 feet

N

CLIENT: Estate of Cheryl A. Hamilton

PROJECT: Phase II
Main St, Pacific Beach, WA 98571

PROJECT NUMBER: W196.001.003

Soil - Analytical Results

FIGURE 6

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250626) Figure 6 Soil Analyticals.mxd 6/26/2025 Created by: daweiler Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

B-5 (GW)	
Date	10/7/2025
Diesel (µg/L)	300
Total Lead (µg/L)	48

MW-1 (GW)	
Date	5/1/2025
Gasoline (µg/L)	17,000
Benzene (µg/L)	2.4
Toluene (µg/L)	18
Ethylbenzene (µg/L)	190
Xylenes (µg/L)	930
Naphthalene (µg/L)	370
2- Methyl-naphthalene (µg/L)	150
1- Methyl-naphthalene (µg/L)	74
Total Lead (µg/L)	25

B-3 (GW)	
Date	10/7/2025
Gasoline (µg/L)	2,500
Oil (µg/L)	780
Total Lead (µg/L)	210

B-6 (GW)	
Date	10/7/2025
Total Lead (µg/L)	60

B-4 (GW)	
Date	10/7/2025
Total Lead (µg/L)	10

B-1 (GW)	
Date	10/7/2025
Total Lead (µg/L)	390

MW-4 (GW)	
Date	5/1/2025
Gasoline (µg/L)	190
Benzene (µg/L)	1.9
Xylenes (µg/L)	4.3
Total Lead (µg/L)	6.8

MW-2 (GW)	
Date	5/1/2025
Gasoline (µg/L)	26,000
Benzene (µg/L)	180
Toluene (µg/L)	100
Ethylbenzene (µg/L)	550
Xylenes (µg/L)	2,800
Naphthalene (µg/L)	430
2- Methyl-naphthalene (µg/L)	130
1- Methyl-naphthalene (µg/L)	69
Total Lead (µg/L)	5.4

MW-5 (GW)	
Date	5/1/2025
Gasoline (µg/L)	100
Xylenes (µg/L)	4.2

B-2 (GW)	
Date	10/7/2025
Gasoline (µg/L)	9,000
Oil (µg/L)	530
Ethylbenzene (µg/L)	42
Xylenes (µg/L)	50
Total Lead (µg/L)	160

B5 B6 B7 B1 B4 B3 B2 MW-3 MW-2 MW-1 MW-4 MW-5 MW-6

Main St

30

Legend

- Boring
- Monitoring Well
- Approximate Extent of Soil Plume
- Subject Parcels

Notes: Imagery from ArcGIS, Date: July 29, 2023

SAFETY FIRST

terraphase engineering

0 15 30 Feet

1 inch = 30 feet

N

CLIENT: Estate of Cheryl A. Hamilton

PROJECT: Phase II
Main St, Pacific Beach, WA 98571

PROJECT NUMBER: W196.001.003

Groundwater - Analytical Results

FIGURE 7

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250626) Figure 7 GW Analyticals.mxd 6/26/2025 Created by: daweiller Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

0 20 40 80 Feet

1 inch = 40 feet

Legend

- Proposed Boring
- Proposed Boring and Monitoring Well
- Proposed Monitoring Well
- Previous Boring
- Existing Monitoring Well
- Subject Parcels

Notes: Imagery from ArcGIS, Date: July 29, 2023

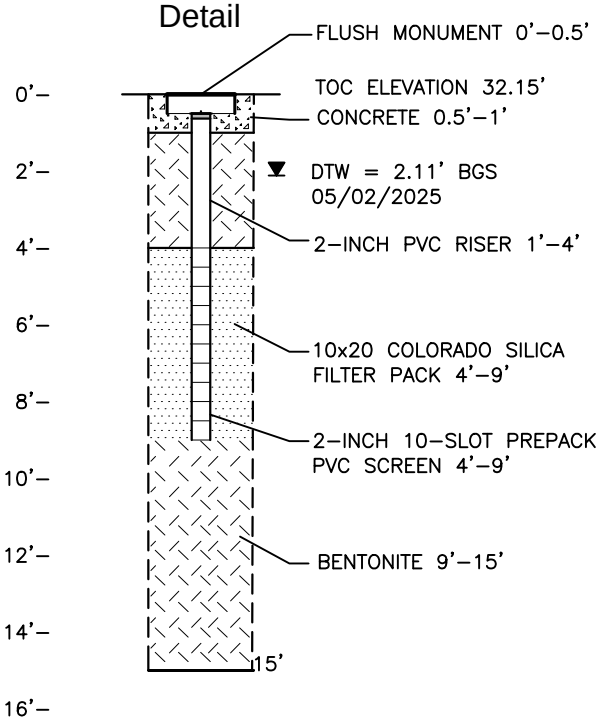
SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Proposed Explorations**
terraphase engineering	PROJECT: Phase II Main St, Pacific Beach, WA 98571	
	PROJECT NUMBER: W196.001.003	**FIGURE 8**

File: T:\Projects\W196 - Estate of Cheryl A. Hamilton\Technical\Figures\(20250626) Figure 8 Proposed Boring and MW Map.mxd 6/26/2025 Created by: daweiler Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet

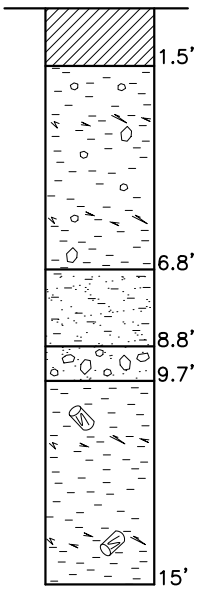
Attachment A

Well Logs

Construction Detail



Geologic Log



ASPHALT, ROAD BASE (FILL)

DARK BROWN SILT WITH ORGANIC LENSES AND SOME ROUND GRAVELS, STIFF, MOIST

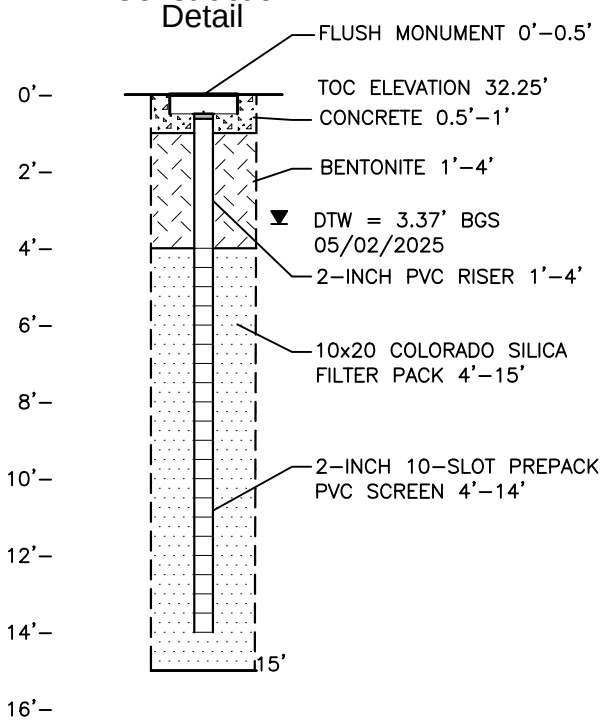
GRAY–BLUE SILT WITH SOME FINE–MEDIUM SAND, SOFT, WET

GRAY–BLUE MEDIUM SAND WITH FINE TO COARSE ANGULAR–SUBROUND GRAVEL, SOFT, VERY MOIST

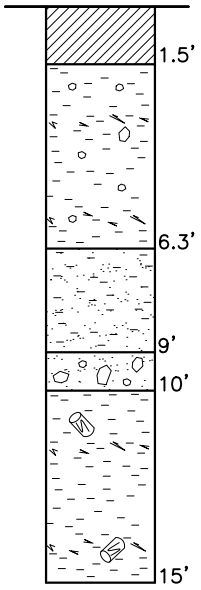
DARK BROWN SILT WITH TRACE ORGANIC LENSES AND PIECES OF WOOD, STIFF, MOIST

SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Monitoring Well 1 (BQL-234) Construction and Geologic Log**
terraphase engineering	PROJECT: **Pacific Beach Property** Main Street, Pacific Beach, Washington 98571	
	PROJECT NUMBER: W196.001.003	**APPENDIX A-1**

Construction Detail



Geologic Log



ASPHALT, ROAD BASE (FILL)

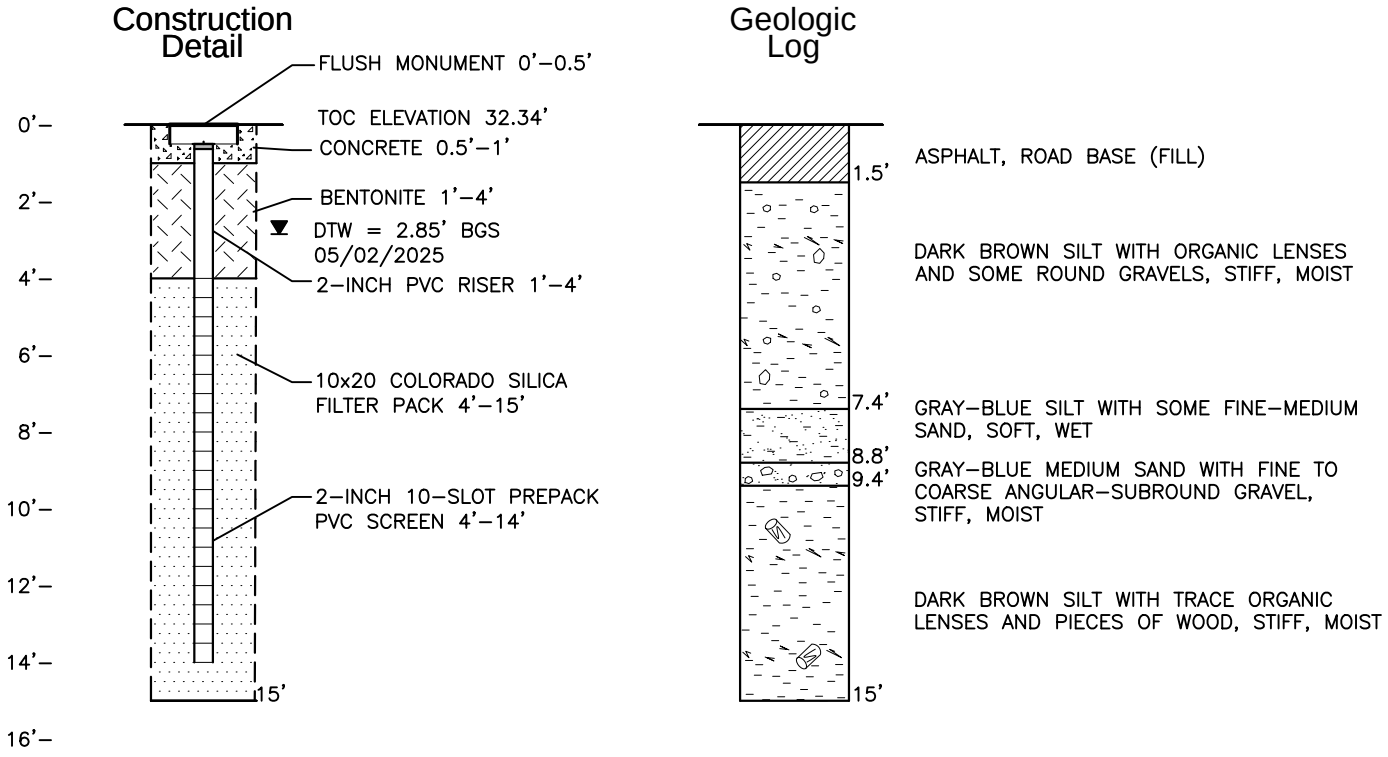
DARK BROWN SILT WITH ORGANIC LENSES AND SOME ROUND GRAVELS, STIFF, MOIST

GRAY–BLUE SILT WITH SOME FINE–MEDIUM SAND, SOFT, WET

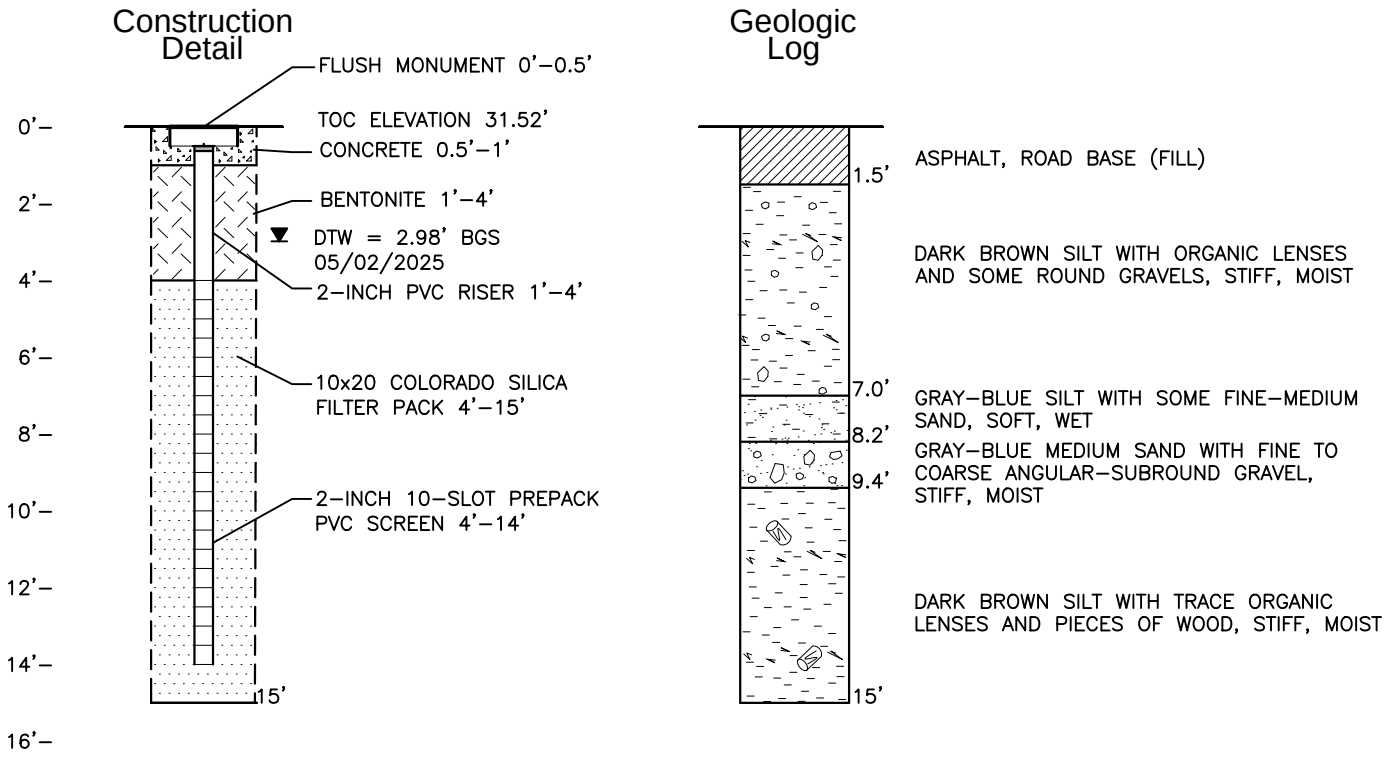
GRAY–BLUE MEDIUM SAND WITH FINE TO COARSE ANGULAR–SUBROUND GRAVEL, STIFF, MOIST

DARK BROWN SILT WITH TRACE ORGANIC LENSES AND PIECES OF WOOD, STIFF, MOIST

SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Monitoring Well 2 (BQL-235) Construction and Geologic Log**
terraphase engineering	PROJECT: **Pacific Beach Property** Main Street, Pacific Beach, Washington 98571	
	PROJECT NUMBER: W196.001.003	**APPENDIX A-2**

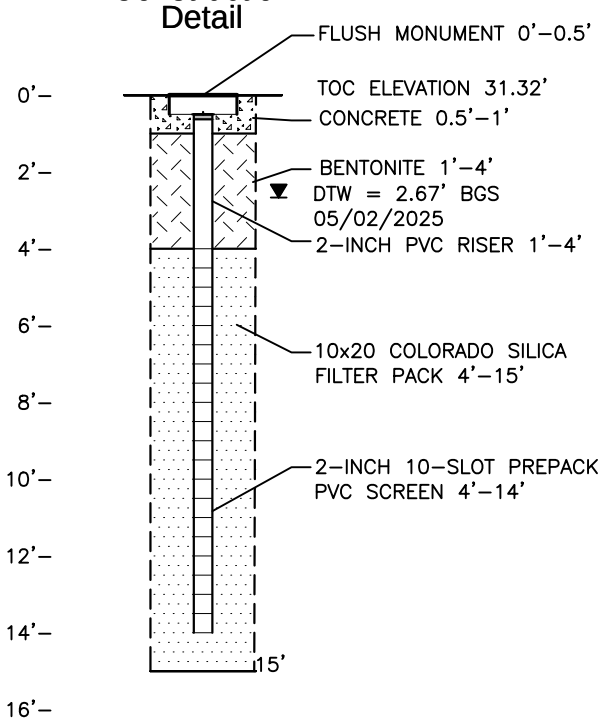


SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Monitoring Well 3 (BQL-236) Construction and Geologic Log**
terraphase engineering	PROJECT: **Pacific Beach Property** Main Street, Pacific Beach, Washington 98571	
	PROJECT NUMBER: W196.001.003	**APPENDIX A-3**

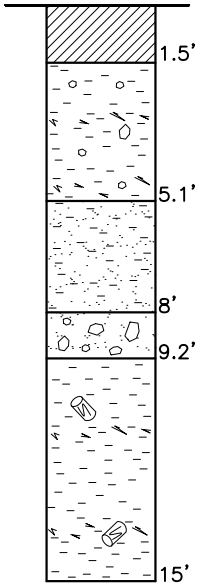


SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Monitoring Well 4 (BQL-237) Construction and Geologic Log**
terraphase engineering	PROJECT: **Pacific Beach Property** Main Street, Pacific Beach, Washington 98571	
	PROJECT NUMBER: W196.001.003	**APPENDIX A-4**

Construction Detail



Geologic Log



ASPHALT, ROAD BASE (FILL)

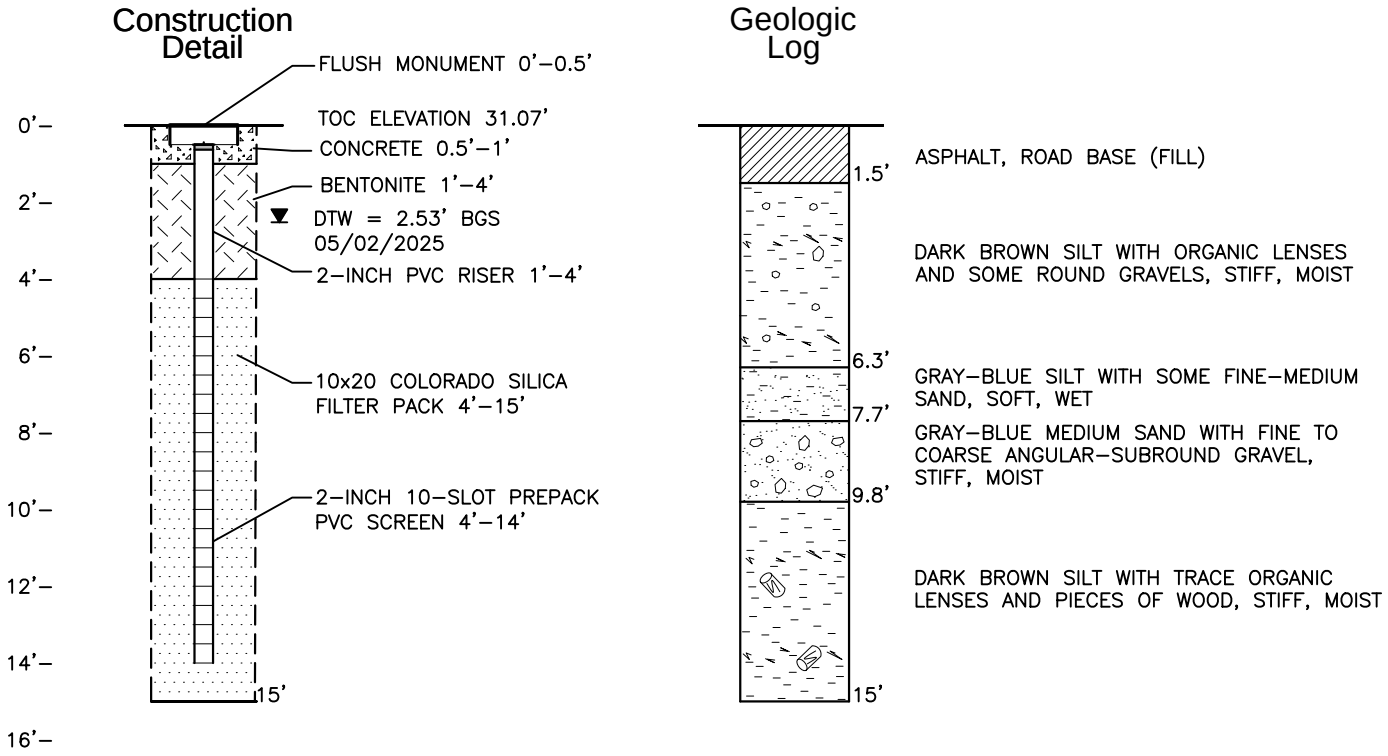
DARK BROWN SILT WITH ORGANIC LENSES AND SOME ROUND GRAVELS, STIFF, MOIST

GRAY–BLUE SILT WITH SOME FINE–MEDIUM SAND, SOFT, WET

GRAY–BLUE MEDIUM SAND WITH FINE TO COARSE ANGULAR–SUBROUND GRAVEL, STIFF, MOIST

DARK BROWN SILT WITH TRACE ORGANIC LENSES AND PIECES OF WOOD, STIFF, MOIST

SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Monitoring Well 5 (BQL-238) Construction and Geologic Log**
terraphase engineering	PROJECT: **Pacific Beach Property** Main Street, Pacific Beach, Washington 98571	
	PROJECT NUMBER: W196.001.003	**APPENDIX A-5**



SAFETY FIRST	CLIENT: Estate of Cheryl A. Hamilton	**Monitoring Well 6 (BQL-239) Construction and Geologic Log**
terraphase engineering	PROJECT: **Pacific Beach Property** Main Street, Pacific Beach, Washington 98571	
	PROJECT NUMBER: W196.001.003	**APPENDIX A-6**

Attachment B

Laboratory Results

Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

Phone (360) 352-2110 • libbyenv@gmail.com

May 09, 2025

John Hildenbrand
Terraphase Engineering, Inc.
2105 South C Street
Tacoma, WA 98402

RE: Estate of Cheryl A. Hamilton/Pacific Beach
Work Order Number: L25E014

Enclosed are the results of analyses for samples received by our laboratory on 5/2/2025.

Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please feel free to contact us. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.c

Client: TEI Terraphase Engineering
Address: 2105 S C St. Tacoma, WA
City: Tacoma State: WA Zip: 98402
Phone: 253-475-7711 Fax:
Client Project # W196.001

Date: May 2nd, 2025 Page: 1 of 1
Project Manager: John Hildenbrand
Project Name: Estate of Cheryl A. Hamilton / Pacific Beac
Location: Main St, Pacific Beach City, State: WA, 98571
Collector: Nancy Garcia-Serratos Date of Collection: May 1&2, 2025
Email: John.Hildenbrand@terraphase.com

	Sample Number	(Ft) Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270	mTCA VOC	Lead (TOTAL)	Lead (Dissolved)	Field Notes
1	MW-1	4	10:30	Soil	1 jar 2 small VOAs Preserve			X			X						X	X			Hold Pb (Dissolved)
2	MW-2	7F	12:00	↓	↓			X			X						X	X			Will need Lab
3	MW-3	4.8	13:30					X			X						X	X			filter if run
4	MW-4	4	15:15					X			X						X	X			MAY 1st 2025
5	MW-5	6	10:45					X			X						X	X			MAY 2nd 2025
6	MW-6	9	12.23					X			X						X	X			
7	MW-1	8	7:20	Water	5 VOAs 1 Poly 1 Polypreserve			X			~~X~~						X	X			
8	MW-2	8	~~8~~:30					X			~~X~~						X	X			5-5-25 Per
9	MW-3	8	9:25					X			~~X~~						X	X			John via email.
10	MW-4	8	10:40					X			~~X~~						X	X			Cancel Water DxDx.
11	MW-5	4.5	14.10					X			~~X~~						X	X			
12	MW-6	3.5	15:45	↓	↓			X			~~X~~						X	X			
13																					
14																					
15																					
16																					
17																					

Relinquished by:	Date / Time	Received by:	Date / Time
Nancy Garcia-Serratos	May 2, 2025 / 18:00	[signature]	5-2-25 1802
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

	Y	N	
Good Condition?			
Cooler Temp.	3		°C
Sample Temp.	3.2		°C
Total Number of Containers	48		

Remarks: ~~EDM~~

TAT: 1-Day 2-Day (5-DAY)

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

Terraphase Engineering, Inc. 2105 South C Street Tacoma, WA 98402	**Project:** Estate of Cheryl A. Hamilton/Pacific Beach **Project Number:** W196.001 **Project Manager:** John Hildenbrand	**City/State:** Pacific Beach, WA **Work Order:** L25E014 **Reported:** 05/09/2025 15:13

Notes and Definitions

Item	Definition
D	Dilution was required.
R	High Relative Percent Difference observed.
R1	High Relative Percent Difference observed due to sample inhomogeneity.
S	Spike recovery indicates a possible matrix effect.
S4	Outlying surrogate recovery(ies) observed.
RL	Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
DET	Analyte DETECTED at or above the reporting limit
Qual	Qualifier
	All results reported on an "as received" basis unless indicated by "Dry"
RPD	Relative Percent Difference
%REC	Percent Recovery
Parent	Sample that was matrix spiked or duplicated

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L25E014-01	MW-1	Soil	05/01/2025	05/02/2025
L25E014-02	MW-2	Soil	05/01/2025	05/02/2025
L25E014-03	MW-3	Soil	05/01/2025	05/02/2025
L25E014-04	MW-4	Soil	05/01/2025	05/02/2025
L25E014-05	MW-5	Soil	05/02/2025	05/02/2025
L25E014-06	MW-6	Soil	05/02/2025	05/02/2025
L25E014-07	MW-1	Water	05/02/2025	05/02/2025
L25E014-08	MW-2	Water	05/02/2025	05/02/2025
L25E014-09	MW-3	Water	05/02/2025	05/02/2025
L25E014-10	MW-4	Water	05/02/2025	05/02/2025
L25E014-11	MW-5	Water	05/02/2025	05/02/2025
L25E014-12	MW-6	Water	05/02/2025	05/02/2025

Libby Environmental, Inc.

Terraphase Engineering, Inc. 2105 South C Street Tacoma, WA 98402	**Project:** Estate of Cheryl A. Hamilton/Pacific Beach **Project Number:** W196.001 **Project Manager:** John Hildenbrand	**City/State:** Pacific Beach, WA **Work Order:** L25E014 **Reported:** 05/09/2025 15:13

Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: **MW-1**			Lab#: L25E014-01		
Gasoline	1000	D	mg/kg dry	310	NWTPH-Gx
Lead	17		mg/kg dry	8.1	7010
Toluene	1.6		mg/kg dry	0.15	8260D
Ethylbenzene	14		mg/kg dry	0.077	8260D
Total Xylenes	66	D	mg/kg dry	4.6	8260D
Naphthalene	12		mg/kg dry	0.15	8260D
2-Methylnaphthalene	3.2		mg/kg dry	0.61	8260D
1-Methylnaphthalene	1.3		mg/kg dry	0.61	8260D
Sample: **MW-2**			Lab#: L25E014-02		
Gasoline	850	D	mg/kg dry	210	NWTPH-Gx
Lead	9.2		mg/kg dry	7.5	7010
Benzene	0.084		mg/kg dry	0.021	8260D
Toluene	0.21		mg/kg dry	0.11	8260D
Ethylbenzene	3.3		mg/kg dry	0.053	8260D
Total Xylenes	18		mg/kg dry	0.16	8260D
Naphthalene	4.1		mg/kg dry	0.11	8260D
2-Methylnaphthalene	2.3		mg/kg dry	0.43	8260D
1-Methylnaphthalene	0.91		mg/kg dry	0.43	8260D
Sample: **MW-3**			Lab#: L25E014-03		
Lead	8.7		mg/kg dry	8.0	7010
Sample: **MW-5**			Lab#: L25E014-05		
Lead	8.9		mg/kg dry	7.9	7010
Sample: **MW-6**			Lab#: L25E014-06		
Lead	9.7		mg/kg dry	6.9	7010

Libby Environmental, Inc.

Terraphase Engineering, Inc.
2105 South C Street
Tacoma, WA 98402

Project: Estate of Cheryl A. Hamilton/Pacific Beach
Project Number: W196.001
Project Manager: John Hildenbrand

City/State: Pacific Beach, WA
Work Order: L25E014
Reported: 05/09/2025 15:13

Libby Environmental Sample Detection Summary (Continued)

Analyte	Result	Qual	Units	RL	Method
Sample: **MW-1**			Lab#: L25E014-07		
Gasoline	17000	D	ug/L	2500	NWTPH-Gx
Lead	25		ug/L	5.0	7010
Benzene	2.4		ug/L	1.0	8260D
Toluene	18		ug/L	2.0	8260D
Ethylbenzene	190		ug/L	1.0	8260D
Total Xylenes	930	D	ug/L	50	8260D
Naphthalene	370	D	ug/L	120	8260D
2-Methylnaphthalene	150		ug/L	5.0	8260D
1-Methylnaphthalene	74		ug/L	5.0	8260D
Sample: **MW-2**			Lab#: L25E014-08		
Gasoline	26000	D	ug/L	2500	NWTPH-Gx
Lead	5.4		ug/L	5.0	7010
Benzene	180		ug/L	1.0	8260D
Toluene	100		ug/L	2.0	8260D
Ethylbenzene	550	D	ug/L	25	8260D
Total Xylenes	2800	D	ug/L	50	8260D
Naphthalene	430	D	ug/L	120	8260D
2-Methylnaphthalene	130		ug/L	5.0	8260D
1-Methylnaphthalene	69		ug/L	5.0	8260D
Sample: **MW-4**			Lab#: L25E014-10		
Gasoline	190		ug/L	100	NWTPH-Gx
Lead	6.8		ug/L	5.0	7010
Benzene	1.9		ug/L	1.0	8260D
Total Xylenes	4.3		ug/L	2.0	8260D
Sample: **MW-5**			Lab#: L25E014-11		
Gasoline	100		ug/L	100	NWTPH-Gx
Total Xylenes	4.2		ug/L	2.0	8260D

Note: If no entry is made, then no target compounds were detected.

Terraphase Engineering, Inc.
2105 South C Street
Tacoma, WA 98402

Project: Estate of Cheryl A. Hamilton/Pacific Beach
Project Number: W196.001
Project Manager: John Hildenbrand

City/State: Pacific Beach, WA
Work Order: L25E014
Reported: 05/09/2025 15:13

Sample Results

Client Sample ID: MW-1

Lab ID: L25E014-01 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		0.077	mg/kg dry	05/06/2025	AA
Benzene	ND		0.031	mg/kg dry	05/06/2025	AA
1,2-Dichloroethane (EDC)	ND		0.046	mg/kg dry	05/06/2025	AA
Toluene	1.6		0.15	mg/kg dry	05/06/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.0038	mg/kg dry	05/06/2025	AA
Ethylbenzene	14		0.077	mg/kg dry	05/06/2025	AA
Total Xylenes	66	D	4.6	mg/kg dry	05/06/2025	AA
Naphthalene	12		0.15	mg/kg dry	05/06/2025	AA
2-Methylnaphthalene	3.2		0.61	mg/kg dry	05/06/2025	AA
1-Methylnaphthalene	1.3		0.61	mg/kg dry	05/06/2025	AA
Surrogate: Dibromofluoromethane	*92.0%*		*43.1-192*		*05/06/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*82.7%*		*29.2-203*		*05/06/2025*	*AA*
Surrogate: Toluene-d8	*106%*		*52.7-151*		*05/06/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*99.8%*		*58.9-123*		*05/06/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	1000	D	310	mg/kg dry	05/06/2025	AA
Surrogate: Toluene-d8	*100%*	*D*	*52.7-151*		*05/06/2025*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		81	mg/kg dry	05/05/2025	DG
Oil	ND		410	mg/kg dry	05/05/2025	DG
Surrogate: 2-FBP	*86.7%*		*33.2-156*		*05/05/2025*	*DG*
Total Metals by EPA Method 7010						
Lead	17		8.1	mg/kg dry	05/08/2025	AA
Moisture by ASTM D2216-19						
Moisture	38		0.50	%	05/05/2025	JC

Terraphase Engineering, Inc.
2105 South C Street
Tacoma, WA 98402

Project: Estate of Cheryl A. Hamilton/Pacific Beach
Project Number: W196.001
Project Manager: John Hildenbrand

City/State: Pacific Beach, WA
Work Order: L25E014
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Sample Results (Continued)

Client Sample ID: MW-2

Lab ID: L25E014-02 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		0.053	mg/kg dry	05/06/2025	AA
Benzene	0.084		0.021	mg/kg dry	05/06/2025	AA
1,2-Dichloroethane (EDC)	ND		0.032	mg/kg dry	05/06/2025	AA
Toluene	0.21		0.11	mg/kg dry	05/06/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.0027	mg/kg dry	05/06/2025	AA
Ethylbenzene	3.3		0.053	mg/kg dry	05/06/2025	AA
Total Xylenes	18		0.16	mg/kg dry	05/06/2025	AA
Naphthalene	4.1		0.11	mg/kg dry	05/06/2025	AA
2-Methylnaphthalene	2.3		0.43	mg/kg dry	05/06/2025	AA
1-Methylnaphthalene	0.91		0.43	mg/kg dry	05/06/2025	AA
Surrogate: Dibromofluoromethane	*102%*		*43.1-192*		*05/06/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*90.4%*		*29.2-203*		*05/06/2025*	*AA*
Surrogate: Toluene-d8	*104%*		*52.7-151*		*05/06/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*160%*	*S4*	*58.9-123*		*05/06/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	850	D	210	mg/kg dry	05/06/2025	AA
Surrogate: Toluene-d8	*102%*	*D*	*52.7-151*		*05/06/2025*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		75	mg/kg dry	05/05/2025	DG
Oil	ND		370	mg/kg dry	05/05/2025	DG
Surrogate: 2-FBP	*73.2%*		*33.2-156*		*05/05/2025*	*DG*
Total Metals by EPA Method 7010						
Lead	9.2		7.5	mg/kg dry	05/08/2025	AA
Moisture by ASTM D2216-19						
Moisture	33		0.50	%	05/05/2025	JC

Terraphase Engineering, Inc. 2105 South C Street Tacoma, WA 98402	**Project:** Estate of Cheryl A. Hamilton/Pacific Beach **Project Number:** W196.001 **Project Manager:** John Hildenbrand	**City/State:** Pacific Beach, WA **Work Order:** L25E014 **Reported:** 05/09/2025 15:13

Sample Results (Continued)

Client Sample ID: MW-3

Lab ID: L25E014-03 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		0.072	mg/kg dry	05/06/2025	AA
Benzene	ND		0.029	mg/kg dry	05/06/2025	AA
1,2-Dichloroethane (EDC)	ND		0.043	mg/kg dry	05/06/2025	AA
Toluene	ND		0.14	mg/kg dry	05/06/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.0036	mg/kg dry	05/06/2025	AA
Ethylbenzene	ND		0.072	mg/kg dry	05/06/2025	AA
Total Xylenes	ND		0.21	mg/kg dry	05/06/2025	AA
Naphthalene	ND		0.14	mg/kg dry	05/06/2025	AA
2-Methylnaphthalene	ND		0.57	mg/kg dry	05/06/2025	AA
1-Methylnaphthalene	ND		0.57	mg/kg dry	05/06/2025	AA
Surrogate: Dibromofluoromethane	*124%*		*43.1-192*		*05/06/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*104%*		*29.2-203*		*05/06/2025*	*AA*
Surrogate: Toluene-d8	*87.6%*		*52.7-151*		*05/06/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*75.0%*		*58.9-123*		*05/06/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		14	mg/kg dry	05/06/2025	AA
Surrogate: Toluene-d8	*87.6%*		*52.7-151*		*05/06/2025*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		80	mg/kg dry	05/05/2025	DG
Oil	ND		400	mg/kg dry	05/05/2025	DG
Surrogate: 2-FBP	*93.0%*		*33.2-156*		*05/05/2025*	*DG*
Total Metals by EPA Method 7010						
Lead	8.7		8.0	mg/kg dry	05/08/2025	AA
Moisture by ASTM D2216-19						
Moisture	38		0.50	%	05/05/2025	JC

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Sample Results (Continued)

Client Sample ID: MW-4

Lab ID: L25E014-04 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		0.078	mg/kg dry	05/06/2025	AA
Benzene	ND		0.031	mg/kg dry	05/06/2025	AA
1,2-Dichloroethane (EDC)	ND		0.047	mg/kg dry	05/06/2025	AA
Toluene	ND		0.16	mg/kg dry	05/06/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.0039	mg/kg dry	05/06/2025	AA
Ethylbenzene	ND		0.078	mg/kg dry	05/06/2025	AA
Total Xylenes	ND		0.23	mg/kg dry	05/06/2025	AA
Naphthalene	ND		0.16	mg/kg dry	05/06/2025	AA
2-Methylnaphthalene	ND		0.62	mg/kg dry	05/06/2025	AA
1-Methylnaphthalene	ND		0.62	mg/kg dry	05/06/2025	AA
Surrogate: Dibromofluoromethane	*126%*		*43.1-192*		*05/06/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*110%*		*29.2-203*		*05/06/2025*	*AA*
Surrogate: Toluene-d8	*88.5%*		*52.7-151*		*05/06/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*76.4%*		*58.9-123*		*05/06/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		16	mg/kg dry	05/06/2025	AA
Surrogate: Toluene-d8	*88.5%*		*52.7-151*		*05/06/2025*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		78	mg/kg dry	05/05/2025	DG
Oil	ND		390	mg/kg dry	05/05/2025	DG
Surrogate: 2-FBP	*75.2%*		*33.2-156*		*05/05/2025*	*DG*
Total Metals by EPA Method 7010						
Lead	ND		7.8	mg/kg dry	05/08/2025	AA
Moisture by ASTM D2216-19						
Moisture	36		0.50	%	05/05/2025	JC

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Sample Results (Continued)

Client Sample ID: MW-5

Lab ID: L25E014-05 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		0.071	mg/kg dry	05/06/2025	AA
Benzene	ND		0.028	mg/kg dry	05/06/2025	AA
1,2-Dichloroethane (EDC)	ND		0.043	mg/kg dry	05/06/2025	AA
Toluene	ND		0.14	mg/kg dry	05/06/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.0036	mg/kg dry	05/06/2025	AA
Ethylbenzene	ND		0.071	mg/kg dry	05/06/2025	AA
Total Xylenes	ND		0.21	mg/kg dry	05/06/2025	AA
Naphthalene	ND		0.14	mg/kg dry	05/06/2025	AA
2-Methylnaphthalene	ND		0.57	mg/kg dry	05/06/2025	AA
1-Methylnaphthalene	ND		0.57	mg/kg dry	05/06/2025	AA
Surrogate: Dibromofluoromethane	*124%*		*43.1-192*		*05/06/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*108%*		*29.2-203*		*05/06/2025*	*AA*
Surrogate: Toluene-d8	*87.2%*		*52.7-151*		*05/06/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*80.0%*		*58.9-123*		*05/06/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		14	mg/kg dry	05/06/2025	AA
Surrogate: Toluene-d8	*87.2%*		*52.7-151*		*05/06/2025*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		79	mg/kg dry	05/05/2025	DG
Oil	ND		390	mg/kg dry	05/05/2025	DG
Surrogate: 2-FBP	*89.5%*		*33.2-156*		*05/05/2025*	*DG*
Total Metals by EPA Method 7010						
Lead	8.9		7.9	mg/kg dry	05/08/2025	AA
Moisture by ASTM D2216-19						
Moisture	37		0.50	%	05/05/2025	JC

Terraphase Engineering, Inc. 2105 South C Street Tacoma, WA 98402	**Project:** Estate of Cheryl A. Hamilton/Pacific Beach **Project Number:** W196.001 **Project Manager:** John Hildenbrand	**City/State:** Pacific Beach, WA **Work Order:** L25E014 **Reported:** 05/09/2025 15:13

Sample Results (Continued)

Client Sample ID: MW-6

Lab ID: L25E014-06 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		0.058	mg/kg dry	05/06/2025	AA
Benzene	ND		0.023	mg/kg dry	05/06/2025	AA
1,2-Dichloroethane (EDC)	ND		0.035	mg/kg dry	05/06/2025	AA
Toluene	ND		0.12	mg/kg dry	05/06/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.0029	mg/kg dry	05/06/2025	AA
Ethylbenzene	ND		0.058	mg/kg dry	05/06/2025	AA
Total Xylenes	ND		0.17	mg/kg dry	05/06/2025	AA
Naphthalene	ND		0.12	mg/kg dry	05/06/2025	AA
2-Methylnaphthalene	ND		0.46	mg/kg dry	05/06/2025	AA
1-Methylnaphthalene	ND		0.46	mg/kg dry	05/06/2025	AA
Surrogate: Dibromofluoromethane	*121%*		*43.1-192*		*05/06/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*104%*		*29.2-203*		*05/06/2025*	*AA*
Surrogate: Toluene-d8	*85.4%*		*52.7-151*		*05/06/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*92.4%*		*58.9-123*		*05/06/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		12	mg/kg dry	05/06/2025	AA
Surrogate: Toluene-d8	*85.4%*		*52.7-151*		*05/06/2025*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		69	mg/kg dry	05/05/2025	DG
Oil	ND		340	mg/kg dry	05/05/2025	DG
Surrogate: 2-FBP	*66.9%*		*33.2-156*		*05/05/2025*	*DG*
Total Metals by EPA Method 7010						
Lead	9.7		6.9	mg/kg dry	05/08/2025	AA
Moisture by ASTM D2216-19						
Moisture	27		0.50	%	05/05/2025	JC

Terraphase Engineering, Inc. 2105 South C Street Tacoma, WA 98402	**Project:** Estate of Cheryl A. Hamilton/Pacific Beach **Project Number:** W196.001 **Project Manager:** John Hildenbrand	**City/State:** Pacific Beach, WA **Work Order:** L25E014 **Reported:** 05/09/2025 15:13

Sample Results (Continued)

Client Sample ID: MW-1

Lab ID: L25E014-07 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	05/05/2025	AA
Benzene	2.4		1.0	ug/L	05/05/2025	AA
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	05/05/2025	AA
Toluene	18		2.0	ug/L	05/05/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	05/05/2025	AA
Ethylbenzene	190		1.0	ug/L	05/05/2025	AA
Total Xylenes	930	D	50	ug/L	05/05/2025	AA
Naphthalene	370	D	120	ug/L	05/05/2025	AA
2-Methylnaphthalene	150		5.0	ug/L	05/05/2025	AA
1-Methylnaphthalene	74		5.0	ug/L	05/05/2025	AA
Surrogate: Dibromofluoromethane	*112%*		*43.1-192*		*05/05/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*123%*		*29.2-203*		*05/05/2025*	*AA*
Surrogate: Toluene-d8	*109%*		*52.7-151*		*05/05/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*115%*		*58.9-123*		*05/05/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	17000	D	2500	ug/L	05/05/2025	AA
Surrogate: Toluene-d8	*89.8%*	*D*	*52.7-151*		*05/05/2025*	*AA*
Total Metals by EPA Method 7010						
Lead	25		5.0	ug/L	05/08/2025	AA

Terraphase Engineering, Inc.
2105 South C Street
Tacoma, WA 98402

Project: Estate of Cheryl A. Hamilton/Pacific Beach
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City/State: Pacific Beach, WA
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Sample Results (Continued)

Client Sample ID: MW-2

Lab ID: L25E014-08 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	05/05/2025	AA
Benzene	180		1.0	ug/L	05/05/2025	AA
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	05/05/2025	AA
Toluene	100		2.0	ug/L	05/05/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	05/05/2025	AA
Ethylbenzene	550	D	25	ug/L	05/05/2025	AA
Total Xylenes	2800	D	50	ug/L	05/05/2025	AA
Naphthalene	430	D	120	ug/L	05/05/2025	AA
2-Methylnaphthalene	130		5.0	ug/L	05/05/2025	AA
1-Methylnaphthalene	69		5.0	ug/L	05/05/2025	AA
Surrogate: Dibromofluoromethane	*102%*		*43.1-192*		*05/05/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*106%*		*29.2-203*		*05/05/2025*	*AA*
Surrogate: Toluene-d8	*112%*		*52.7-151*		*05/05/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*122%*		*58.9-123*		*05/05/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	26000	D	2500	ug/L	05/05/2025	AA
Surrogate: Toluene-d8	*102%*	*D*	*52.7-151*		*05/05/2025*	*AA*
Total Metals by EPA Method 7010						
Lead	5.4		5.0	ug/L	05/08/2025	AA

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Sample Results (Continued)

Client Sample ID: MW-3

Lab ID: L25E014-09 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	05/05/2025	AA
Benzene	ND		1.0	ug/L	05/05/2025	AA
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	05/05/2025	AA
Toluene	ND		2.0	ug/L	05/05/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	05/05/2025	AA
Ethylbenzene	ND		1.0	ug/L	05/05/2025	AA
Total Xylenes	ND		2.0	ug/L	05/05/2025	AA
Naphthalene	ND		5.0	ug/L	05/05/2025	AA
2-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
1-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
Surrogate: Dibromofluoromethane	*127%*		*43.1-192*		*05/05/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*113%*		*29.2-203*		*05/05/2025*	*AA*
Surrogate: Toluene-d8	*89.0%*		*52.7-151*		*05/05/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*84.9%*		*58.9-123*		*05/05/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	05/05/2025	AA
Surrogate: Toluene-d8	*89.0%*		*52.7-151*		*05/05/2025*	*AA*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	05/08/2025	AA

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Sample Results (Continued)

Client Sample ID: MW-4

Lab ID: L25E014-10 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	05/05/2025	AA
Benzene	1.9		1.0	ug/L	05/05/2025	AA
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	05/05/2025	AA
Toluene	ND		2.0	ug/L	05/05/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	05/05/2025	AA
Ethylbenzene	ND		1.0	ug/L	05/05/2025	AA
Total Xylenes	4.3		2.0	ug/L	05/05/2025	AA
Naphthalene	ND		5.0	ug/L	05/05/2025	AA
2-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
1-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
Surrogate: Dibromofluoromethane	*143%*		*43.1-192*		*05/05/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*120%*		*29.2-203*		*05/05/2025*	*AA*
Surrogate: Toluene-d8	*95.5%*		*52.7-151*		*05/05/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*79.7%*		*58.9-123*		*05/05/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	190		100	ug/L	05/05/2025	AA
Surrogate: Toluene-d8	*95.5%*		*52.7-151*		*05/05/2025*	*AA*
Total Metals by EPA Method 7010						
Lead	6.8		5.0	ug/L	05/08/2025	AA

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Sample Results (Continued)

Client Sample ID: MW-5

Lab ID: L25E014-11 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	05/05/2025	AA
Benzene	ND		1.0	ug/L	05/05/2025	AA
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	05/05/2025	AA
Toluene	ND		2.0	ug/L	05/05/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	05/05/2025	AA
Ethylbenzene	ND		1.0	ug/L	05/05/2025	AA
Total Xylenes	4.2		2.0	ug/L	05/05/2025	AA
Naphthalene	ND		5.0	ug/L	05/05/2025	AA
2-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
1-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
Surrogate: Dibromofluoromethane	*140%*		*43.1-192*		*05/05/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*124%*		*29.2-203*		*05/05/2025*	*AA*
Surrogate: Toluene-d8	*96.2%*		*52.7-151*		*05/05/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*96.0%*		*58.9-123*		*05/05/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	100		100	ug/L	05/05/2025	AA
Surrogate: Toluene-d8	*96.2%*		*52.7-151*		*05/05/2025*	*AA*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	05/08/2025	AA

Terraphase Engineering, Inc. 2105 South C Street Tacoma, WA 98402	**Project:** Estate of Cheryl A. Hamilton/Pacific Beach **Project Number:** W196.001 **Project Manager:** John Hildenbrand	**City/State:** Pacific Beach, WA **Work Order:** L25E014 **Reported:** 05/09/2025 15:13

Sample Results (Continued)

Client Sample ID: MW-6

Lab ID: L25E014-12 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	05/05/2025	AA
Benzene	ND		1.0	ug/L	05/05/2025	AA
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	05/05/2025	AA
Toluene	ND		2.0	ug/L	05/05/2025	AA
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	05/05/2025	AA
Ethylbenzene	ND		1.0	ug/L	05/05/2025	AA
Total Xylenes	ND		2.0	ug/L	05/05/2025	AA
Naphthalene	ND		5.0	ug/L	05/05/2025	AA
2-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
1-Methylnaphthalene	ND		5.0	ug/L	05/05/2025	AA
Surrogate: Dibromofluoromethane	*129%*		*43.1-192*		*05/05/2025*	*AA*
Surrogate: 1,2-Dichloroethane-d4	*140%*		*29.2-203*		*05/05/2025*	*AA*
Surrogate: Toluene-d8	*87.0%*		*52.7-151*		*05/05/2025*	*AA*
Surrogate: 4-Bromofluorobenzene	*82.6%*		*58.9-123*		*05/05/2025*	*AA*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	05/05/2025	AA
Surrogate: Toluene-d8	*87.0%*		*52.7-151*		*05/05/2025*	*AA*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	05/08/2025	AA

Terraphase Engineering, Inc.
2105 South C Street
Tacoma, WA 98402

Project: Estate of Cheryl A. Hamilton/Pacific Beach
Project Number: W196.001
Project Manager: John Hildenbrand

City/State: Pacific Beach, WA
Work Order: L25E014
Reported: 05/09/2025 15:13

Quality Control

Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BZE0034 - VOA										
Blank (BZE0034-BLK1)					Prepared & Analyzed: 5/6/2025					
Methyl tert-Butyl Ether (MTBE)	ND		0.050	mg/kg wet						
Benzene	ND		0.020	mg/kg wet						
1,2-Dichloroethane (EDC)	ND		0.030	mg/kg wet						
Toluene	ND		0.10	mg/kg wet						
1,2-Dibromoethane (EDB) (SIM)	ND		0.0025	mg/kg wet						
Ethylbenzene	ND		0.050	mg/kg wet						
Total Xylenes	ND		0.15	mg/kg wet						
Naphthalene	ND		0.10	mg/kg wet						
2-Methylnaphthalene	ND		0.40	mg/kg wet						
1-Methylnaphthalene	ND		0.40	mg/kg wet						
Surrogate: Dibromofluoromethane			*23.6*	*ug/L*	*20.0*		*118*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*19.4*	*ug/L*	*20.0*		*97.2*	*29.2-203*		
Surrogate: Toluene-d8			*17.2*	*ug/L*	*20.0*		*86.2*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*14.6*	*ug/L*	*20.0*		*73.0*	*58.9-123*		
LCS (BZE0034-BS1)					Prepared & Analyzed: 5/6/2025					
Methyl tert-Butyl Ether (MTBE)	0.464		0.050	mg/kg wet	0.500		92.9	11.9-212		
Benzene	0.475		0.020	mg/kg wet	0.500		95.0	62.1-139		
1,2-Dichloroethane (EDC)	0.529		0.030	mg/kg wet	0.500		106	49.1-182		
Toluene	0.469		0.10	mg/kg wet	0.500		93.7	47.4-147		
1,2-Dibromoethane (EDB)	0.520		0.10	mg/kg wet	0.500		104	54.4-153		
Ethylbenzene	0.492		0.050	mg/kg wet	0.500		98.4	56.1-129		
Total Xylenes	1.42		0.15	mg/kg wet	1.50		94.4	52.2-125		
Naphthalene	0.347		0.10	mg/kg wet	0.500		69.3	10-180		
2-Methylnaphthalene	0.388		0.40	mg/kg wet	0.500		77.6	16.1-204		
1-Methylnaphthalene	0.535		0.40	mg/kg wet	0.500		107	10-205		
Surrogate: Dibromofluoromethane			*23.2*	*ug/L*	*20.0*		*116*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*20.0*	*ug/L*	*20.0*		*100*	*29.2-203*		
Surrogate: Toluene-d8			*18.3*	*ug/L*	*20.0*		*91.4*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*19.5*	*ug/L*	*20.0*		*97.4*	*58.9-123*		
Duplicate (BZE0034-DUP1)		**Parent: L25E014-03**			Prepared & Analyzed: 5/6/2025					
Methyl tert-Butyl Ether (MTBE)	ND		0.095	mg/kg dry		ND				35
Benzene	ND		0.038	mg/kg dry		ND				35
1,2-Dichloroethane (EDC)	ND		0.057	mg/kg dry		ND				35
Toluene	ND		0.19	mg/kg dry		ND				35
1,2-Dibromoethane (EDB) (SIM)	ND		0.0047	mg/kg dry		ND				35
Ethylbenzene	ND		0.095	mg/kg dry		ND				35
Total Xylenes	ND		0.28	mg/kg dry		ND				35
Naphthalene	ND		0.19	mg/kg dry		ND				35
2-Methylnaphthalene	ND		0.76	mg/kg dry		ND				35
1-Methylnaphthalene	ND		0.76	mg/kg dry		ND				35
Surrogate: Dibromofluoromethane			*21.6*	*ug/L*	*20.0*		*108*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*17.7*	*ug/L*	*20.0*		*88.4*	*29.2-203*		
Surrogate: Toluene-d8			*17.6*	*ug/L*	*20.0*		*88.0*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*15.9*	*ug/L*	*20.0*		*79.4*	*58.9-123*		

Terraphase Engineering, Inc. 2105 South C Street Tacoma, WA 98402	**Project:** Estate of Cheryl A. Hamilton/Pacific Beach **Project Number:** W196.001 **Project Manager:** John Hildenbrand	**City/State:** Pacific Beach, WA **Work Order:** L25E014 **Reported:** 05/09/2025 15:13

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (BZE0034-MS1)		**Parent: L25E014-03**			Prepared & Analyzed: 5/6/2025					
Methyl tert-Butyl Ether (MTBE)	0.838		0.072	mg/kg dry	0.716	ND	117	10-184		
Benzene	0.709		0.029	mg/kg dry	0.716	ND	99.0	39.1-165		
1,2-Dichloroethane (EDC)	0.721		0.043	mg/kg dry	0.716	ND	101	46.9-180		
Toluene	0.653		0.14	mg/kg dry	0.716	ND	91.1	22.6-178		
1,2-Dibromoethane (EDB)	0.801		0.14	mg/kg dry	0.716	ND	112	44.3-152		
Ethylbenzene	0.704		0.072	mg/kg dry	0.716	ND	98.2	29.1-155		
Total Xylenes	2.02		0.21	mg/kg dry	2.15	ND	94.1	16.3-159		
Naphthalene	0.633		0.14	mg/kg dry	0.716	ND	88.3	10-159		
2-Methylnaphthalene	ND	S	0.57	mg/kg dry	0.716	ND		16.1-204		
1-Methylnaphthalene	ND	S	0.57	mg/kg dry	0.716	ND		10-205		
Surrogate: Dibromofluoromethane			*22.2*	*ug/L*	*20.0*		*111*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*18.9*	*ug/L*	*20.0*		*94.4*	*29.2-203*		
Surrogate: Toluene-d8			*17.8*	*ug/L*	*20.0*		*89.1*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*19.3*	*ug/L*	*20.0*		*96.4*	*58.9-123*		
Matrix Spike Dup (BZE0034-MSD1)		**Parent: L25E014-03**			Prepared & Analyzed: 5/6/2025					
Methyl tert-Butyl Ether (MTBE)	0.696		0.072	mg/kg dry	0.716	ND	97.2	10-184	18.5	35
Benzene	0.716		0.029	mg/kg dry	0.716	ND	100	39.1-165	0.985	35
1,2-Dichloroethane (EDC)	0.700		0.043	mg/kg dry	0.716	ND	97.7	46.9-180	3.08	35
Toluene	0.650		0.14	mg/kg dry	0.716	ND	90.7	22.6-178	0.517	35
1,2-Dibromoethane (EDB)	0.802		0.14	mg/kg dry	0.716	ND	112	44.3-152	0.134	35
Ethylbenzene	0.707		0.072	mg/kg dry	0.716	ND	98.7	29.1-155	0.518	35
Total Xylenes	2.00		0.21	mg/kg dry	2.15	ND	92.9	16.3-159	1.33	35
Naphthalene	0.809		0.14	mg/kg dry	0.716	ND	113	10-159	24.4	35
2-Methylnaphthalene	0.808		0.57	mg/kg dry	0.716	ND	113	16.1-204		35
1-Methylnaphthalene	0.921		0.57	mg/kg dry	0.716	ND	129	10-205		35
Surrogate: Dibromofluoromethane			*20.8*	*ug/L*	*20.0*		*104*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*20.3*	*ug/L*	*20.0*		*102*	*29.2-203*		
Surrogate: Toluene-d8			*17.6*	*ug/L*	*20.0*		*88.2*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*18.8*	*ug/L*	*20.0*		*94.2*	*58.9-123*		

Batch: BZE0016 - VOA

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (BZE0016-BLK1)					Prepared & Analyzed: 5/5/2025					
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L						
Benzene	ND		1.0	ug/L						
1,2-Dichloroethane (EDC)	ND		1.0	ug/L						
Toluene	ND		2.0	ug/L						
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L						
Ethylbenzene	ND		1.0	ug/L						
Total Xylenes	ND		2.0	ug/L						
Naphthalene	ND		5.0	ug/L						
2-Methylnaphthalene	ND		5.0	ug/L						
1-Methylnaphthalene	ND		5.0	ug/L						
Surrogate: Dibromofluoromethane			*26.6*	*ug/L*	*20.0*		*133*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*26.1*	*ug/L*	*20.0*		*131*	*29.2-203*		
Surrogate: Toluene-d8			*18.8*	*ug/L*	*20.0*		*94.2*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*14.2*	*ug/L*	*20.0*		*70.8*	*58.9-123*		

Terraphase Engineering, Inc.
2105 South C Street
Tacoma, WA 98402

Project: Estate of Cheryl A. Hamilton/Pacific Beach
Project Number: W196.001
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City/State: Pacific Beach, WA
Work Order: L25E014
Reported: 05/09/2025 15:13

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (BZE0016-BS1)					Prepared & Analyzed: 5/5/2025					
Methyl tert-Butyl Ether (MTBE)	13.9		5.0	ug/L	10.0		139	11.9-212		
Benzene	11.1		1.0	ug/L	10.0		111	62.1-139		
1,2-Dichloroethane (EDC)	12.9		1.0	ug/L	10.0		129	49.1-182		
Toluene	9.81		2.0	ug/L	10.0		98.1	47.4-147		
1,2-Dibromoethane (EDB)	10.6		2.0	ug/L	10.0		106	54.4-153		
Ethylbenzene	10.8		1.0	ug/L	10.0		108	56.1-129		
Total Xylenes	33.6		2.0	ug/L	30.0		112	52.2-125		
Naphthalene	7.62		5.0	ug/L	10.0		76.2	10-180		
2-Methylnaphthalene	7.67		5.0	ug/L	10.0		76.7	16.1-204		
1-Methylnaphthalene	8.31		5.0	ug/L	10.0		83.1	10-205		
Surrogate: Dibromofluoromethane			*25.7*	*ug/L*	*20.0*		*128*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*24.8*	*ug/L*	*20.0*		*124*	*29.2-203*		
Surrogate: Toluene-d8			*19.9*	*ug/L*	*20.0*		*99.6*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*22.3*	*ug/L*	*20.0*		*112*	*58.9-123*		
Duplicate (BZE0016-DUP1)		**Parent: L25E014-07**			Prepared & Analyzed: 5/5/2025					
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L		ND				35
Benzene	2.38		1.0	ug/L		2.39			0.0838	35
1,2-Dichloroethane (EDC)	ND		1.0	ug/L		0.350				35
Toluene	17.4		2.0	ug/L		18.2			4.78	35
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L		ND				35
Ethylbenzene	193		1.0	ug/L		192			0.737	35
Total Xylenes	1070		2.0	ug/L		1100			2.22	35
Naphthalene	240		5.0	ug/L		261			8.49	35
2-Methylnaphthalene	98.3	R	5.0	ug/L		150			41.3	35
1-Methylnaphthalene	80.8		5.0	ug/L		73.6			9.34	35
Surrogate: Dibromofluoromethane			*21.3*	*ug/L*	*20.0*		*107*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*21.3*	*ug/L*	*20.0*		*107*	*29.2-203*		
Surrogate: Toluene-d8			*21.0*	*ug/L*	*20.0*		*105*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*23.4*	*ug/L*	*20.0*		*117*	*58.9-123*		
Duplicate (BZE0016-DUP2)		**Parent: L25E016-01**			Prepared & Analyzed: 5/5/2025					
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L		ND				35
Benzene	ND		1.0	ug/L		ND				35
1,2-Dichloroethane (EDC)	ND		1.0	ug/L		ND				35
Toluene	ND		2.0	ug/L		ND				35
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L		ND				35
Ethylbenzene	ND		1.0	ug/L		ND				35
Total Xylenes	ND		2.0	ug/L		ND				35
Naphthalene	ND		5.0	ug/L		ND				35
2-Methylnaphthalene	ND		5.0	ug/L		ND				35
1-Methylnaphthalene	ND		5.0	ug/L		ND				35
Surrogate: Dibromofluoromethane			*25.8*	*ug/L*	*20.0*		*129*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*25.5*	*ug/L*	*20.0*		*128*	*29.2-203*		
Surrogate: Toluene-d8			*16.9*	*ug/L*	*20.0*		*84.7*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*12.9*	*ug/L*	*20.0*		*64.6*	*58.9-123*		

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Project: Estate of Cheryl A. Hamilton/Pacific Beach
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Work Order: L25E014
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Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (BZE0016-MS1)		**Parent: L25E014-12**			Prepared & Analyzed: 5/5/2025					
Methyl tert-Butyl Ether (MTBE)	14.9		5.0	ug/L	10.0	ND	149	12.3-211		
Benzene	11.6		1.0	ug/L	10.0	ND	116	34-162		
1,2-Dichloroethane (EDC)	12.3		1.0	ug/L	10.0	ND	123	18.4-205		
Toluene	9.23		2.0	ug/L	10.0	ND	92.3	14.5-177		
1,2-Dibromoethane (EDB)	7.27		2.0	ug/L	10.0	ND	72.7	27.1-161		
Ethylbenzene	8.08		1.0	ug/L	10.0	ND	80.8	49.5-141		
Total Xylenes	28.7		2.0	ug/L	30.0	ND	95.5	43.1-142		
Naphthalene	13.2		5.0	ug/L	10.0	ND	132	10-197		
2-Methylnaphthalene	12.8		5.0	ug/L	10.0	ND	128	10-200		
1-Methylnaphthalene	11.1		5.0	ug/L	10.0	ND	111	10-209		
Surrogate: Dibromofluoromethane			*24.9*	*ug/L*	*20.0*		*125*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*24.6*	*ug/L*	*20.0*		*123*	*29.2-203*		
Surrogate: Toluene-d8			*18.8*	*ug/L*	*20.0*		*93.9*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*21.8*	*ug/L*	*20.0*		*109*	*58.9-123*		
Matrix Spike Dup (BZE0016-MSD1)		**Parent: L25E014-12**			Prepared & Analyzed: 5/5/2025					
Methyl tert-Butyl Ether (MTBE)	12.4		5.0	ug/L	10.0	ND	124	12.3-211	17.8	35
Benzene	11.0		1.0	ug/L	10.0	ND	110	34-162	4.79	35
1,2-Dichloroethane (EDC)	12.1		1.0	ug/L	10.0	ND	121	18.4-205	2.22	35
Toluene	8.58		2.0	ug/L	10.0	ND	85.8	14.5-177	7.32	35
1,2-Dibromoethane (EDB)	9.53		2.0	ug/L	10.0	ND	95.3	27.1-161	26.8	35
Ethylbenzene	9.62		1.0	ug/L	10.0	ND	96.2	49.5-141	17.5	35
Total Xylenes	29.7		2.0	ug/L	30.0	ND	99.0	43.1-142	3.62	35
Naphthalene	9.46		5.0	ug/L	10.0	ND	94.6	10-197	32.9	35
2-Methylnaphthalene	11.4		5.0	ug/L	10.0	ND	114	10-200	11.2	35
1-Methylnaphthalene	10.9		5.0	ug/L	10.0	ND	109	10-209	2.00	35
Surrogate: Dibromofluoromethane			*25.0*	*ug/L*	*20.0*		*125*	*43.1-192*		
Surrogate: 1,2-Dichloroethane-d4			*25.4*	*ug/L*	*20.0*		*127*	*29.2-203*		
Surrogate: Toluene-d8			*17.7*	*ug/L*	*20.0*		*88.6*	*52.7-151*		
Surrogate: 4-Bromofluorobenzene			*20.1*	*ug/L*	*20.0*		*101*	*58.9-123*		

Terraphase Engineering, Inc.
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City/State: Pacific Beach, WA
Work Order: L25E014
Reported: 05/09/2025 15:13

Quality Control
(Continued)

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BZE0034 - VOA										
Blank (BZE0034-BLK1)					Prepared & Analyzed: 5/6/2025					
Gasoline	ND		10	mg/kg wet						
Surrogate: Toluene-d8			*17.2*	*ug/L*	*20.0*		*86.2*	*52.7-151*		
Duplicate (BZE0034-DUP1)		**Parent: L25E014-03**			Prepared & Analyzed: 5/6/2025					
Gasoline	ND		19	mg/kg dry		ND				35
Surrogate: Toluene-d8			*17.6*	*ug/L*	*20.0*		*88.0*	*52.7-151*		
Batch: BZE0016 - VOA										
Blank (BZE0016-BLK1)					Prepared & Analyzed: 5/5/2025					
Gasoline	ND		100	ug/L						
Surrogate: Toluene-d8			*18.8*	*ug/L*	*20.0*		*94.2*	*52.7-151*		
Duplicate (BZE0016-DUP1)		**Parent: L25E014-07**			Prepared & Analyzed: 5/5/2025					
Gasoline	15300		100	ug/L		14000			9.45	35
Surrogate: Toluene-d8			*21.0*	*ug/L*	*20.0*		*105*	*52.7-151*		
Duplicate (BZE0016-DUP2)		**Parent: L25E016-01**			Prepared & Analyzed: 5/5/2025					
Gasoline	ND		100	ug/L		ND				35
Surrogate: Toluene-d8			*16.9*	*ug/L*	*20.0*		*84.7*	*52.7-151*		

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Tacoma, WA 98402

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Project Number: W196.001
Project Manager: John Hildenbrand

City/State: Pacific Beach, WA
Work Order: L25E014
Reported: 05/09/2025 15:13

Quality Control
(Continued)

Diesel and Oil by NWTPH-Dx/Dx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BZE0018 - Extraction										
Blank (BZE0018-BLK1)					Prepared & Analyzed: 5/5/2025					
Diesel	ND		50	mg/kg wet						
Oil	ND		250	mg/kg wet						
Surrogate: 2-FBP			*17.9*	*ug/mL*	*20.0*		*89.4*	*33.2-156*		
LCS (BZE0018-BS1)					Prepared & Analyzed: 5/5/2025					
Diesel	160		50	mg/kg wet	100		160	82-198		
Surrogate: 2-FBP			*23.2*	*ug/mL*	*20.0*		*116*	*33.2-156*		
Duplicate (BZE0018-DUP1)		**Parent: L25E014-01**			Prepared & Analyzed: 5/5/2025					
Diesel	ND		81	mg/kg dry		ND				35
Oil	ND		410	mg/kg dry		ND				35
Surrogate: 2-FBP			*13.1*	*ug/mL*	*20.0*		*65.6*	*33.2-156*		

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Quality Control
(Continued)

Total Metals by EPA Method 7010

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BZE0038 - Metals Digest										
Blank (BZE0038-BLK1)					Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	ND		5.0	mg/kg wet						
LCS (BZE0038-BS1)					Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	9.33		5.0	mg/kg wet	10.0		93.3	80-120		
Duplicate (BZE0038-DUP1)		**Parent: L25E014-01**			Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	21.1	R1	8.1	mg/kg dry		17.2			20.5	20
Matrix Spike (BZE0038-MS1)		**Parent: L25E014-01**			Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	36.1		16	mg/kg dry	16.2	17.2	117	75-125		
Matrix Spike Dup (BZE0038-MSD1)		**Parent: L25E014-01**			Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	32.7		16	mg/kg dry	16.2	17.2	96.0	75-125	9.89	20
Batch: BZE0040 - Metals Digest										
Blank (BZE0040-BLK1)					Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	ND		5.0	ug/L						
LCS (BZE0040-BS1)					Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	23.1		5.0	ug/L	20.0		115	80-120		
Duplicate (BZE0040-DUP1)		**Parent: L25E014-07**			Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	27.7		5.0	ug/L		24.6			11.8	20
Duplicate (BZE0040-DUP2)		**Parent: L25E016-05**			Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	ND		5.0	ug/L		ND				20
Matrix Spike (BZE0040-MS1)		**Parent: L25E014-07**			Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	46.2		5.0	ug/L	20.0	24.6	108	75-125		
Matrix Spike Dup (BZE0040-MSD1)		**Parent: L25E014-07**			Prepared: 5/7/2025 Analyzed: 5/8/2025					
Lead	48.9		5.0	ug/L	20.0	24.6	121	75-125	5.68	20

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Quality Control
(Continued)

Moisture by ASTM D2216-19

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BZE0025 - Gen Chem										
LCS (BZE0025-BS1)					Prepared & Analyzed: 5/5/2025					
Moisture	18			%	17.0		105	90-115		