

April 1, 2025

Washington State Department of Ecology
PO Box 47600
Olympia, Washington 98503

Attention: Josh Morman

Subject: Riparian Area Soil Sampling and Analysis Progress Report
Quiet Cove Site
Anacortes, Washington
Agreed Order No. DE 11346
GeoEngineers File No. 5147-024-14

Introduction

This progress report describes the results of investigation activities completed at the Quiet Cove Site (Site) situated along the shoreline of Guemes Channel at 202 O Avenue (the intersection of 2nd Street and O Avenue) in Anacortes, Washington (Figure 1). Pursuant to Agreed Order No. DE11346 (Agreed Order) and the Washington Department of Ecology (Ecology) approved Remedial Investigation/Feasibility Study (RI/FS) Work Plan Addendum No. 2 (Work Plan Addendum No. 2; GeoEngineers 2024), the Port of Anacortes (Port) completed investigation activities in the Riparian Area of the site to achieve the following objectives:

- Locate and map the extent of the remaining portion of the product pipe extending to the west of the 2020 Interim Action¹ excavation limit: and
- Complete soil sampling and analysis to fill data gaps in the existing soil data to refine the delineation of contamination at the Site.

Additional investigation work is required by RI/FS Work Plan Addendum No. 2, including soil sampling and analysis in the Southern Boundary Area of the Site. Completion of the Southern Boundary Area investigation is pending completion of an access agreement with the property owner. After completion of the Southern Boundary Area investigation, a technical memorandum data report describing the investigation activities completed for both the Riparian and South Boundary Areas will be prepared and submitted to Ecology for

¹ Pursuant to the Washington Administrative Code (WAC) 173-340-430 and in coordination with Ecology, the Port completed an Interim Action between August and November 2020 (2020 Interim Action) to remediate a portion of the Site to facilitate redevelopment of the property for commercial purposes. Specific details regarding the 2020 Interim Action are presented in the Interim Action Completion Report (GeoEngineers 2021).

review to ensure that the remaining data gaps have been addressed and that there is sufficient information to prepare the RI/FS.

Summary of Riparian Area Field Investigation Activities

ABANDONED PIPE LOCATE

During the 2020 Interim Action, multiple abandoned product pipes were encountered at depths of approximately 2.5 feet below ground surface (bgs) within the remedial excavation area (Figure 2). At the northwest limit of the remedial excavation, an approximate 4-inch diameter product pipe extending to the west was identified. Subsequently, a trench excavation was completed to expose and remove the observed product pipe. However, at the western edge of the trench excavation, the product pipe was observed to change direction with a new orientation extending to the northeast and could not be extracted at the time of construction.

In accordance with Work Plan Addendum No. 2, an underground utility locate was completed on November 11, 2024 to identify and map the extent of the previously identified product pipe remaining in-place. Using electromagnetic methods, APS Locates (APS) successfully located the remaining length and alignment of the buried product pipe. The position of the located pipe was surveyed referencing existing physical features at the Site and surrounding area (i.e., chain-link fence and building corners) to ensure accuracy of the pipe alignment and facilitate ease in future relocation. The location of the product pipe is shown in Figure 2.

SOIL INVESTIGATION

Soil sampling and analysis was completed on November 13, 2024, to further characterize contaminated soil in the Riparian Area using direct-push drilling methods. Within the Riparian Area, a total of seven (7) soil borings (GEI-54 through GEI-60; Figure 3) were completed to depths ranging from 14 to 20 feet bgs. During drilling activities, representatives from GeoEngineers' staff were present to examine, field screen and classify the soils encountered. Field screening results and a description of the material encountered in each exploration are presented in the attached exploration logs. Sampling activities and a summary of chemical analytical results are presented below.

Utility Locate

Prior to drilling, a public one-call utility locate was completed. Additionally, a private utility locate was completed to clear potential utilities and/or underground physical hazards within an approximate 15-foot radius of each exploration location. The results of the public and private utility locate did not identify potential utilities and/or underground physical hazards in the vicinity of the planned explorations requiring their relocation.

Soil Sample Collection and Processing

Soil samples from each exploration were collected continuously on 2-foot intervals for chemical analysis of different material types, including:

- Non-saturated fill material.

- Saturated fill material at the water table level observed at the time of drilling.
- Native material without evidence of petroleum contamination and at least 1-foot below the fill/native soil interface.

Collected sample intervals were individually homogenized and placed into the appropriate laboratory-supplied sample containers. Samples for volatile chemical analysis (i.e., gasoline and/or volatile organic compounds [VOCs]) were collected from the approximate center of the sampling interval from undisturbed soil sample prior to homogenization using United States Environmental Protection Agency (EPA) Method 5035A sampling procedures and consistent with Ecology guidance to reduce volatilization and biodegradation of the sample constituents. Upon collection, the samples were placed into a cooler with ice for transport to the testing laboratory.

Chemical Analysis

The collected soil samples were submitted to OnSite Environmental, Inc. (OnSite) located in Redmond, Washington for analysis of the following chemical parameters:

- Metals (arsenic, cadmium, chromium, lead and mercury) by EPA 6000/7000 Method Series.
- Gasoline-range petroleum hydrocarbons by NWTPH-Gx.
- Heavy oil- and diesel-range petroleum hydrocarbons by NWTPH-Dx.
- Volatile Organic Compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX), ethylene dibromide (EDB), ethylene dichloride (EDC), methyl tert-butyl ether (MTBE) and n-hexane by EPA Method 8260.
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270-SIM.

In accordance with RI/FS Work Plan Addendum No. 2, a minimum of three soil samples were submitted from each completed boring. Samples collected from the borings that were not submitted for initial chemical analysis were archived for potential follow-up testing based on a review of the initial sample data results. Initial samples were analyzed on an expedited turnaround time to ensure that samples for potential follow up analysis could be completed within the method hold times.

A total of twenty-three (23) soil samples from borings GEI-54 through GEI-60 (including duplicate samples) were initially submitted for chemical analysis. Nine (9) soil samples from borings GEI-56, GEI-57, GEI-58, GEI-59 and GEI-60 were submitted for follow up chemical analysis based on review of initial analytical results.

Analytical Results

Analytical results for the Riparian Zone soil investigation are summarized in Table 1 and shown in Figures 4 through 7. Based on a review of the chemical analytical data, the following exceedances of the preliminary screening levels (PSLs) were identified:

- **Metals** including chromium, lead and mercury exceeded the PSL in soil samples collected at depths ranging from approximately 2 and 8 feet bgs in borings GEI-56 through GEI-59.

- **Gasoline-range petroleum hydrocarbons** exceeded the PSL in soil samples collected at depths ranging from approximately 6 to 8 feet bgs in boring GEI-56 and at depths ranging from approximately 4 to 6 feet bgs in boring GEI-59.
- **PAHs** including acenaphthylene, fluoranthene, naphthalene and phenanthrene exceeded the PSL in soil samples collected at depths ranging from approximately 2 and 8 feet bgs in borings GEI-56, GEI-58 and GEI-59. Additionally, total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency quotient (TEQ) methodology exceeded the PSL in soil samples collected at depths ranging from approximately 2 and 8 feet bgs in borings GEI-55 through GEI-58 and GEI-60. At boring GEI-56, PSL exceedances of total cPAH in soil extend to a depth of approximately 14 feet bgs. At boring GEI-57, PSL exceedances of total cPAH in soil extend to a depth of approximately 12 feet bgs.

Analytical results for previous soil investigation results are presented in the 2nd Street Right-of-Way Soil Investigation Data Report (GeoEngineers 2022) and Interim Action Construction Completion Report. Analytical results for previous groundwater monitoring events are presented in Quiet Cove Data Report (GeoEngineers 2019) and October 2024 Groundwater Monitoring Progress Report (GeoEngineers 2025). A copy of the chemical analytical data report for the Riparian Area soil samples is attached.

DEVIATIONS FROM THE WORK PLAN

No deviations from Work Plan Addendum No. 2 were made in completing the Riparian Zone investigation.

Limitations

This progress report has been prepared for the exclusive use of the Port of Anacortes and the Washington State Department of Ecology. No other party may rely on the product of our services unless we agree in advance and in writing to such reliance. Any use of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and written authorization by GeoEngineers, Inc., shall be at the user's sole risk. Any unauthorized use of (or reliance on) this report shall release GeoEngineers from any liability resulting from such use (or reliance). Within the limitations of scope, schedule, and budget, GeoEngineers, Inc.'s respective services have been provided in a manner consistent with that level of care and skill exercised by members of the profession currently practicing in the same locality under similar conditions as this project. No warranty or other conditions, expressed or implied, should be understood. GeoEngineers, Inc. assumes no responsibility for any consequence arising from any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available.

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References

GeoEngineers Inc. (GeoEngineers) 2020. Interim Action Work Plan; Quiet Cove Site; Anacortes, Washington; Ecology Agreed Order No. DE 11346, GeoEngineers File No. 5147-024-07, dated January 9, 2020.

GeoEngineers, Inc. (GeoEngineers) 2021. Interim Action Construction Completion Report; Quiet Cove Interim Action; Anacortes, Washington; Ecology Agreed Order No. DE 11346. GeoEngineers File No. 5147-024-10. June 22, 2021.

GeoEngineers, Inc. (GeoEngineers) 2022. Supplemental 2nd Street Right-of-Way Soil Investigation Data Report for the Quiet Cove Site, Anacortes, Washington Ecology Agreed Order No. 11346. GeoEngineers File No. 5147-024-13. October 3, 2022.

GeoEngineers, Inc. (GeoEngineers) 2024. Remedial Investigation/Feasibility Study Work Plan Addendum No. 2 for Supplemental Soil and Groundwater Characterization in the Riparian and Southern Boundary Areas of the Quiet Cove Site, Anacortes, Washington; Ecology Agreed Order No. DE 11346. GeoEngineers File No. 5147-024-12. March 8, 2024.

GeoEngineers, Inc. (GeoEngineers) 2025. Groundwater Monitoring Progress Report – October 2024 Monitoring Event, Quiet Cove Site, Anacortes, Washington; Ecology Agreed Order No. DE 11346. GeoEngineers File No. 5147-024-14. February 18, 2025.

Further soil investigation activities will be completed for the Southern Boundary Area when an access agreement is completed.

Sincerely,
GeoEngineers, Inc.,



Brian J. Tracy, PE
Senior Environmental Engineer



John M. Herzog, PhD, LG
Senior Principal

DK:BJT:RST:JMH:ch:seh

Attachments:

- Table 1. Riparian Zone Soil Analytical Results
- Figure 1. Vicinity Map
- Figure 2. Abandoned Product Pipe Survey
- Figure 3. Remedial Investigation Sampling Locations
- Figure 4. Metals Soil Analytical Results
- Figure 5. TPH Soil Analytical Results
- Figure 6. VOCs Soil Analytical Results
- Figure 7. PAHs Soil Analytical Results
- Attachment A. Explorations Logs
- Attachment B. Laboratory Data Report

cc: Brad Tesch, Port of Anacortes
Tim Bishop, Chevron Environmental Management and Real Estate Co. (CEMREC)

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Tables

Table 1
Riparian Zone Soil Analytical Results
 Quiet Cove Site
 Anacortes, Washington

Sample Location ¹	Preliminary Screening Level ²		GEI-54			GEI-55			GEI-56						GEI-57					
			GEI-54_2.0-4.0	GEI-54_6.0-8.0	GEI-54_12.0-14.0	GEI-55_2.0-4.0	GEI-55_6.0-8.0	GEI-55_10.0-12.0	GEI-56_2.0-4.0	GEI-56_6.0-8.0	GEI-56_8.0-10.0	GEI-56_12.0-14.0	GEI-56_14.0-16.0	GEI-56_18.0-20.0	GEI-57_2.0-4.0	GEI-57_4.0-6.0	GEI-57_8.0-10.0	GEI-57_10.0-12.0	GEI-57_12.0-14.0	GEI-57_16.0-18.0
Sample Identification	Level ²		11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24
Sample Date	Vadose Zone	Saturated Zone	2-4 ft	6-8 ft	12-14 ft	2-4 ft	6-8 ft	10-12 ft	2-4 ft	6-8 ft	8-10 ft	12-14 ft	14-16 ft	18-20 ft	2-4 ft	4-6 ft	8-10 ft	10-12 ft	12-14 ft	16-18 ft
Sample Interval (feet bgs)			Vadose	Saturated	Vadose	Saturated	Saturated	Vadose	Saturated	Saturated	Vadose	Saturated	Saturated	Saturated	Saturated	Saturated	Vadose	Vadose	Saturated	Saturated
Sample Type																				
Field Measured Parameters																				
Sheen	NE	NE	NS	NS	NS	NS	NS	SS	NS	NS	NS	NS	NS	NS	SS	NS	NS	NS	NS	NS
Headspace Vapors (ppm)	NE	NE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Metals by EPA 6000/7000 Series (mg/kg)																				
Arsenic	20	20	11 U	12 U	11 U	12 U	12 U	12 U	11 U	12 U	--	11 U	--	--	11 U	12 U	--	11 U	--	--
Cadmium	1.2	1	0.55 U	0.58 U	0.53 U	0.59 U	0.59 U	0.59 U	0.57 U	0.60 U	--	0.54 U	--	--	0.53 U	0.59 U	--	0.57 U	--	--
Chromium	1,000	50	18	13	23	18	9.1	29	25	52	32	23	--	--	21	11	--	22	--	--
Lead	250	24	5.5 U	5.8 U	5.3 U	7.5	5.9 U	5.9 U	47	46	6.0 U	19	--	--	190	130	--	6.2	--	--
Mercury	0.07	0.07	0.055 U	0.058 U	0.053 U	0.059 U	0.059 U	0.059 U	0.093	0.073	0.06 U	0.054 U	--	--	0.057	0.14	0.056 U	0.057 U	--	--
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)																				
Gasoline-Range	30 ³	30 ³	6.1 U	6.7 U	4.4 U	5.7 U	6.7 U	5.6 U	10	74	--	4.7 U	--	--	5.5 U	6.5 U	--	5.3 U	--	--
Diesel-Range	2,000	2,000	28 U	44	26 U	30 U	30 U	30 U	29 U	55	--	27 U	--	--	26 U	29 U	--	29 U	--	--
Heavy Oil-Range	2,000	2,000	55 U	58 U	53 U	59 U	59 U	59 U	82	99	--	54 U	--	--	53 U	84	--	57 U	--	--
Total Diesel and Heavy Oil-Range	2,000	2,000	80 U	102	79 U	89 U	89 U	89 U	111	154	--	81 U	--	--	79 U	113	--	116 U	--	--
Volatile Organic Compounds (VOCs) by EPA 8260 (mg/kg)																				
Benzene	0.05	0.05	0.0010 U	0.0011 U	0.00088 U	0.0010 U	0.0012 U	0.0011 U	0.00098 U	0.0019	--	0.0016	--	--	0.0011 U	0.0011 U	--	0.00099 U	--	--
Toluene	3.8	0.22	0.0010 U	0.0011 U	0.00088 U	0.0010 U	0.0012 U	0.0011 U	0.00098 U	0.0010 U	--	0.0010 U	--	--	0.0011 U	0.0011 U	--	0.00099 U	--	--
Ethylbenzene	1.1	1.1	0.0010 U	0.0011 U	0.00088 U	0.0010 U	0.0012 U	0.0011 U	0.00098 U	0.0010 U	--	0.0010 U	--	--	0.0011 U	0.0011 U	--	0.00099 U	--	--
Total Xylenes	2.8	0.16	0.003 U	0.0034 U	0.00268 U	0.003 U	0.0035 U	0.0034 U	0.00298 U	0.0562	--	0.003 U	--	--	0.0033 U	0.0032 U	--	0.00299 U	--	--
1,2-Dibromoethane (EDB)	0.002	0.001	0.00050 U	0.00057 U	0.00044 U	0.00050 U	0.00059 U	0.00057 U	0.00049 U	0.00051 U	--	0.00051 U	--	--	0.00055 U	0.00053 U	--	0.00049 U	--	--
1,2-Dichloroethane (EDC)	0.02	0.001	0.00050 U	0.00057 U	0.00044 U	0.00050 U	0.00059 U	0.00057 U	0.00049 U	0.00051 U	--	0.00051 U	--	--	0.00055 U	0.00053 U	--	0.00049 U	--	--
Methyl t-butyl ether (MTBE)	2.6	0.18	0.0010 U	0.0011 U	0.00088 U	0.0010 U	0.0012 U	0.0011 U	0.00098 U	0.0010 U	--	0.0010 U	--	--	0.0011 U	0.0011 U	--	0.00099 U	--	--
n-Hexane	0.27	0.01	0.0050 U	0.0057 U	0.0044 U	0.0050 U	0.0059 U	0.0057 U	0.0049 U	0.0051 U	--	0.0051 U	--	--	0.0055 U	0.0053 U	--	0.0049 U	--	--
Non-Carcinogenic Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270-SIM (mg/kg)																				
1-Methylnaphthalene	35	35	0.0037 U	0.0038 U	0.0035 U	0.0039 U	0.0040 U	0.0039 U	0.011	0.033	--	0.0042	0.0040 U	0.0037 U	0.0035 U	0.011	--	0.0038 U	0.0036 U	0.0040 U
2-Methylnaphthalene	0.77	0.04	0.0047	0.0038 U	0.0035 U	0.0058	0.0040 U	0.0039 U	0.019	0.025	--	0.0070	0.0040 U	0.0037 U	0.0035 U	0.017	--	0.0038 U	0.0036 U	0.0040 U
Acenaphthene	0.32	0.02	0.0037 U	0.0038 U	0.0035 U	0.0039 U	0.0040 U	0.0039 U	0.0038 U	0.010 U	--	0.0036 U	0.0040 U	0.0037 U	0.0035 U	0.0053	--	0.0038 U	0.0036 U	0.0040 U
Acenaphthylene	NE	0.068	0.0047	0.0038 U	0.0035 U	0.030	0.0040 U	0.0039 U	0.055	0.074	--	0.0044	0.0040 U	0.0037 U	0.0070	0.051	--	0.0038 U	0.0036 U	0.0040 U
Anthracene	4.4	0.2	0.0037 U	0.0038 U	0.0035 U	0.038	0.0040 U	0.0039 U	0.049	0.039	--	0.0042	0.0040 U	0.0037 U	0.0083	0.049	--	0.0043	0.0036 U	0.0040 U
Benzo(g,h,i)perylene	NE	2	0.0089	0.0038 U	0.0035 U	0.14	0.0040 U	0.0039 U	0.14	0.094	--	0.012	0.0040 U	0.0037 U	0.025	0.16	--	0.0060	0.0036 U	0.0040 U
Fluoranthene	0.5	0.16	0.0060	0.0038 U	0.0035 U	0.36	0.0040 U	0.0039 U	0.27	0.22	--	0.027	0.0040 U	0.0037 U	0.040	0.32	--	0.017	0.0036 U	0.0040 U
Fluorene	0.5	0.16	0.0037 U	0.0038 U	0.0035 U	0.0068	0.0040 U	0.0039 U	0.011	0.022	--	0.0036 U	0.0040 U	0.0037 U	0.0035 U	0.014	--	0.0038 U	0.0036 U	0.0040 U
Naphthalene	0.25	0.013	0.0037 U	0.0038 U	0.0035 U	0.012	0.0040 U	0.0039 U	0.021	0.030	--	0.0036 U	0.0040 U	0.0037 U	0.0035 U	0.026	--	0.0038 U	0.0036 U	0.0040 U
Phenanthrene	NE	0.1	0.0056	0.0038 U	0.0035 U	0.13	0.0040 U	0.0039 U	0.14	0.14	--	0.0086	0.0040 U	0.0037 U	0.016	0.13	--	0.011	0.0036 U	0.0040 U
Pyrene	20	1	0.0074	0.0038 U	0.0035 U	0.41	0.0040 U	0.0039 U	0.32	0.24	--	0.028	0.0040 U	0.0037 U	0.042	0.37	--	0.018	0.0036 U	0.0040 U
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) by EPA 8270-SIM (mg/kg)																				

Sample Location ¹	Sample Identification	Preliminary Screening Level ²	GEI-54			GEI-55			GEI-56					GEI-57								
			GEI-54_2.0-4.0	GEI-54_6.0-8.0	GEI-54_12.0-14.0	GEI-55_2.0-4.0	GEI-55_6.0-8.0	GEI-55_10.0-12.0	GEI-56_2.0-4.0	GEI-56_6.0-8.0	GEI-56_8.0-10.0	GEI-56_12.0-14.0	GEI-56_14.0-16.0	GEI-56_18.0-20.0	GEI-57_2.0-4.0	GEI-57_4.0-6.0	GEI-57_8.0-10.0	GEI-57_10.0-12.0	GEI-57_12.0-14.0	GEI-57_16.0-18.0		
Sample Date	Sample Interval (feet bgs)	Sample Type	Vadose Zone	Saturated Zone																		
Field Measured Parameters																						
Benzo(a)anthracene					0.0047	0.0038 U	0.0035 U	0.23	0.0040 U	0.0039 U	0.17	0.12	--	0.015	0.0040 U	0.0037 U	0.028	0.21	--	0.0089	0.0036 U	0.0040 U
Benzo(a)pyrene					0.0089	0.0038 U	0.0035 U	0.23	0.0040 U	0.0039 U	0.19	0.14	--	0.018	0.0040 U	0.0037 U	0.036	0.22	--	0.0093	0.0036 U	0.0040 U
Benzo(b)fluoranthene					0.0085	0.0038 U	0.0035 U	0.23	0.0040 U	0.0039 U	0.20	0.15	--	0.021	0.0040 U	0.0037 U	0.037	0.21	--	0.0092	0.0036 U	0.0040 U
Benzo(k)fluoranthene					0.0037 U	0.0038 U	0.0035 U	0.069	0.0040 U	0.0039 U	0.071	0.048	--	0.0069	0.0040 U	0.0037 U	0.011	0.083	--	0.0038 U	0.0036 U	0.0040 U
Chrysene					0.0059	0.0038 U	0.0035 U	0.22	0.0040 U	0.0039 U	0.19	0.13	--	0.019	0.0040 U	0.0037 U	0.028	0.18	--	0.0081	0.0036 U	0.0040 U
Dibenzo(a,h)anthracene					0.0037 U	0.0038 U	0.0035 U	0.035	0.0040 U	0.0039 U	0.025	0.027	--	0.0036 U	0.0040 U	0.0037 U	0.0045	0.027	--	0.0038 U	0.0036 U	0.0040 U
Indeno(1,2,3-c,d)pyrene					0.0082	0.0038 U	0.0035 U	0.15	0.0040 U	0.0039 U	0.15	0.10	--	0.014	0.0040 U	0.0037 U	0.025	0.16	--	0.0065	0.0036 U	0.0040 U
Total cPAH TEQ ⁴ (ND=0.5RL)			0.19 ⁵	0.01 ⁵	0.012	0.006	0.0053	0.304	0.006	0.006	0.254	0.186	--	0.024	0.006	0.0056	0.047	0.29	--	0.013	0.0054	0.006

Notes:

¹ Sample locations and summary of remedial investigation results are shown on Figure 3 through 7.

² Preliminary screening levels are from the RI/FS Work Plan (GeoEngineers, 2017).

³ Value for gasoline-range petroleum hydrocarbons if benzene is present. If benzene is not present, screening level is 100 mg/kg.

⁴ Total cPAH Toxic Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) values referenced from MTCA Table 708.2 (WAC 173-340-900).

⁵ Value for vadose and saturated soil based on Ecology's Revised July 2021 cPAH guidance for protection of surface water.

⁶ Samples analyzed beyond hold time for PAHs as requested by Ecology and estimated (J) qualifier added.

ppm = parts per million

mg/kg = milligrams per kilogram

-- = not analyzed

NE = Not Established

ND = Not Detected

NS- No Sheen; MS- Medium Sheen; HS- High Sheen

U = The analyte was not detected at a concentration greater than the value identified.

J = The analyte was detected and the detected concentration is considered an estimate.

Blue shading indicates that the practical quantitation limit (PQL) is above screening level.

 Yellow shading indicates that the identified concentration is greater than the preliminary screening level.

Bold font type indicates the analyte was detected at the reported concentration.

Table 1
Riparian Zone Soil Analytical Results
 Quiet Cove Site
 Anacortes, Washington

Sample Location ¹	Preliminary Screening Level ²		GEI-58				GEI-59					GEI-60				
			GEI-58_2.0-4.0	GEI-58_4.0-6.0	GEI-58_8.0-10.0	GEI-58_10.0-12.0	GEI-59_2.0-4.0	GEI-59_4.0-6.0	GEI-DUP1	GEI-59_6.0-8.0	GEI-59_10.0-12.0	GEI-60_2.0-4.0	GEI-60_6.0-8.0	GEI-60_8.0-10.0	GEI-60_10.0-12.0	GEI-DUP2
Sample Identification	Sample Date		11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24
Sample Interval (feet bgs)	Vadose Zone	Saturated Zone	2-4 ft	4-6 ft	8-10 ft	10-12 ft	2-4 ft	4-6 ft	4-6 ft	6-8 ft	10-12 ft	2-4 ft	6-8 ft	8-10 ft	10-12 ft	10-12 ft
Sample Type			Vadose	Vadose	Saturated	Saturated	Vadose	Vadose	Vadose	Saturated	Saturated	Vadose	Saturated	Saturated	Saturated	Saturated
Field Measured Parameters																
Sheen	NE	NE	NS	NS	NS	NS	NS	HS	HS	NS	NS	NS	NS	NS	NS	NS
Headspace Vapors (ppm)	NE	NE	<1	<1	<1	<1	<1	179.3	179.3	<1	<1	<1	<1	<1	<1	<1
Metals by EPA 6000/7000 Series (mg/kg)																
Arsenic	20	20	10 U	12 U	--	11 U	11 U	12 U	12 U	--	12 U	12 U	12 U	--	11 U	12 U
Cadmium	1.2	1	0.51 U	0.58 U	--	0.56 U	0.54 U	0.62 U	0.62 U	--	0.59 U	0.59 U	0.60 U	--	0.57 U	0.58 U
Chromium	1,000	50	21	15	--	15	13	12	11	--	25	20	19	--	25	24
Lead	250	24	240	150	--	5.6 U	160	10	10	--	5.9 U	5.9 U	6.0 U	--	5.7 U	5.8 U
Mercury	0.07	0.07	0.051 U	0.15	0.051 U	0.056 U	0.075	0.062 U	0.062 U	--	0.059 U	0.059 U	0.060 U	--	0.057 U	0.058 U
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)																
Gasoline-range hydrocarbons	30 ³	30 ³	5.3 U	6.1 U	--	5.1 U	6.5 U	65	65	6.4 U	5.0 U	6.2 U	6.8 U	6.9 U	6.3 U	6.1 U
Diesel-range hydrocarbons	2,000	2,000	26 U	29 U	--	28 U	84	44	70	--	29 U	30 U	30 U	--	28 U	29 U
Lube Oil-range hydrocarbons	2,000	2,000	77	58 U	--	56 U	180	62 U	63 U	--	59 U	59 U	60 U	--	57 U	58 U
Lube Oil-range hydrocarbons	2,000	2,000	103	87 U	--	84 U	264	106	133	--	88 U	89 U	90 U	--	85 U	57 U
Volatile Organic Compounds (VOCs) by EPA 8260 (mg/kg)																
Benzene	0.05	0.05	0.0011 U	0.0010 U	--	0.00073 U	0.0011 U	0.0011 U	0.0012 U	--	0.00094 U	0.0011 U	0.0010 U	--	0.00079 U	0.0010 U
Toluene	3.8	0.22	0.0011 U	0.0010 U	--	0.00073 U	0.0011 U	0.0011 U	0.0012 U	--	0.00094 U	0.0011 U	0.0010 U	--	0.00079 U	0.0010 U
Ethylbenzene	1.1	1.1	0.0011 U	0.0010 U	--	0.00073 U	0.0011 U	0.0011 U	0.0012 U	--	0.00094 U	0.0011 U	0.0010 U	--	0.00079 U	0.0012 U
Total Xylenes	2.8	0.16	0.0032 U	0.0031 U	--	0.00223 U	0.0034 U	0.0042 U	0.0035 U	--	0.00284 U	0.0032 U	0.0031 U	--	0.00239 U	0.003 U
1,2-Dibromoethane (EDB)	0.002	0.001	0.00053 U	0.00052 U	--	0.00037 U	0.00057 U	0.00057 U	0.00058 U	--	0.00047 U	0.00053 U	0.00052 U	--	0.00039 U	0.00051 U
1,2-Dichloroethane (EDC)	0.02	0.001	0.00053 U	0.00052 U	--	0.00037 U	0.00057 U	0.00057 U	0.00058 U	--	0.00047 U	0.00053 U	0.00052 U	--	0.00039 U	0.00051 U
Methyl t-butyl ether (MTBE)	2.6	0.18	0.0011 U	0.0010 U	--	0.00073 U	0.0011 U	0.0011 U	0.0012 U	--	0.00094 U	0.0011 U	0.0010 U	--	0.00079 U	0.0010 U
n-Hexane	0.27	0.01	0.0053 U	0.0052 U	--	0.0037 U	0.0057 U	0.0057 U	0.0058 U	--	0.0047 U	0.0053 U	0.0052 U	--	0.0039 U	0.0051 U
Non-Carcinogenic Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270-SIM (mg/kg)																
1-Methylnaphthalene	35	35	0.0086 U	0.0038 U	--	0.0037 U	0.10	0.0042 U	0.0042 U	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
2-Methylnaphthalene	0.77	0.04	0.0086 U	0.0038 U	--	0.0037 U	0.18	0.0065	0.0081	--	0.0039 U	0.0040 U	0.0053	--	0.0038 U	0.0039 U
Acenaphthene	0.32	0.02	0.0086 U	0.0038 U	--	0.0037 U	0.010	0.0042 U	0.0042 U	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
Acenaphthylene	NE	0.068	0.024	0.017	--	0.0037 U	0.55	0.0067	0.011	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
Anthracene	4.4	0.2	0.018	0.069	--	0.0037 U	0.39	0.0042 U	0.0055	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
Benzo(g,h,i)perylene	NE	2	0.045	0.11	--	0.0037 U	0.89	0.018	0.028	--	0.0039 U	0.0040 U	0.0044	--	0.0038 U	0.0039 U
Fluoranthene	0.5	0.16	0.056	0.32	--	0.0037 U	0.98	0.028	0.042	--	0.0039 U	0.0040 U	0.012	--	0.0038 U	0.0039 U
Fluorene	0.5	0.16	0.0086 U	0.0061	--	0.0037 U	0.045	0.0042 U	0.0042 U	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
Naphthalene	0.25	0.013	0.0086 U	0.010	--	0.0037 U	0.22	0.0059	0.012	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
Phenanthrene	NE	0.1	0.028	0.12	--	0.0037 U	0.22	0.0068	0.011	--	0.0039 U	0.0040 U	0.0041	--	0.0038 U	0.0038 U
Pyrene	20	1	0.079	0.37	--	0.0037 U	1.4	0.034	0.054	--	0.0039 U	0.0040 U	0.012	--	0.0038 U	0.0039 U
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) by EPA 8270-SIM (mg/kg)																

Sample Location ¹	Preliminary Screening Level ²		GEI-58				GEI-59					GEI-60				
Sample Identification			GEI-58_2.0-4.0	GEI-58_4.0-6.0	GEI-58_8.0-10.0	GEI-58_10.0-12.0	GEI-59_2.0-4.0	GEI-59_4.0-6.0	GEI-DUP1	GEI-59_6.0-8.0	GEI-59_10.0-12.0	GEI-60_2.0-4.0	GEI-60_6.0-8.0	GEI-60_8.0-10.0	GEI-60_10.0-12.0	GEI-DUP2
Sample Date	Level ²		11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	11/13/24	
Sample Interval (feet bgs)	Vadose Zone	Saturated Zone	2-4 ft	4-6 ft	8-10 ft	10-12 ft	2-4 ft	4-6 ft	4-6 ft	6-8 ft	10-12 ft	2-4 ft	6-8 ft	8-10 ft	10-12 ft	
Sample Type			Vadose	Vadose	Saturated	Saturated	Vadose	Vadose	Vadose	Saturated	Saturated	Vadose	Saturated	Saturated	Saturated	
Field Measured Parameters																
Benzo(a)anthracene	See Total cPAH TEQ	See Total cPAH TEQ	0.051	0.18	--	0.0037 U	0.98	0.018	0.028	--	0.0039 U	0.0040 U	0.0076	--	0.0038 U	0.0039 U
Benzo(a)pyrene			0.060	0.17	--	0.0037 U	1.2	0.024	0.037	--	0.0039 U	0.0040 U	0.0043	--	0.0038 U	0.0039 U
Benzo(b)fluoranthene			0.059	0.17	--	0.0037 U	1.0	0.021	0.035	--	0.0039 U	0.0040 U	0.0080	--	0.0038 U	0.0039 U
Benzo(k)fluoranthene			0.021	0.047	--	0.0037 U	0.40	0.0090	0.010	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
Chrysene			0.048	0.15	--	0.0037 U	0.89	0.019	0.029	--	0.0039 U	0.0040 U	0.0083	--	0.0038 U	0.0039 U
Dibenzo(a,h)anthracene			0.010	0.019	--	0.0037 U	0.19	0.0043	0.0054	--	0.0039 U	0.0040 U	0.0040 U	--	0.0038 U	0.0039 U
Indeno(1,2,3-c,d)pyrene			0.044	0.12	--	0.0037 U	0.90	0.018	0.028	--	0.0039 U	0.0040 U	0.0047	--	0.0038 U	0.0039 U
Total cPAH TEQ ⁴ (ND=0.5RL)			0.19 ⁵	0.01 ⁵	0.079	0.225	--	0.0056	1.56	0.031	0.048	--	0.0059	0.007	0.0112	--

Notes:

¹ Sample locations and summary of remedial investigation results are shown on Figure 3 through 7.

² Preliminary screening levels are from the RI/FS Work Plan (GeoEngineers, 2017).

³ Value for gasoline-range petroleum hydrocarbons if benzene is present. If benzene is not present, screening level is 100 mg/kg.

⁴ Total cPAH Toxic Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) values referenced from MTCA Table 708.2 (WAC 173-340-900).

⁵ Value for vadose and saturated soil based on Ecology's Revised July 2021 cPAH guidance for protection of surface water.

⁶ Samples analyzed beyond hold time for PAHs as requested by Ecology and estimated (J) qualifier added.

ppm = parts per million

mg/kg = milligrams per kilogram

-- = not analyzed

NE = Not Established

ND = Not Detected

NS- No Sheen; MS- Medium Sheen; HS- High Sheen

U = The analyte was not detected at a concentration greater than the value identified.

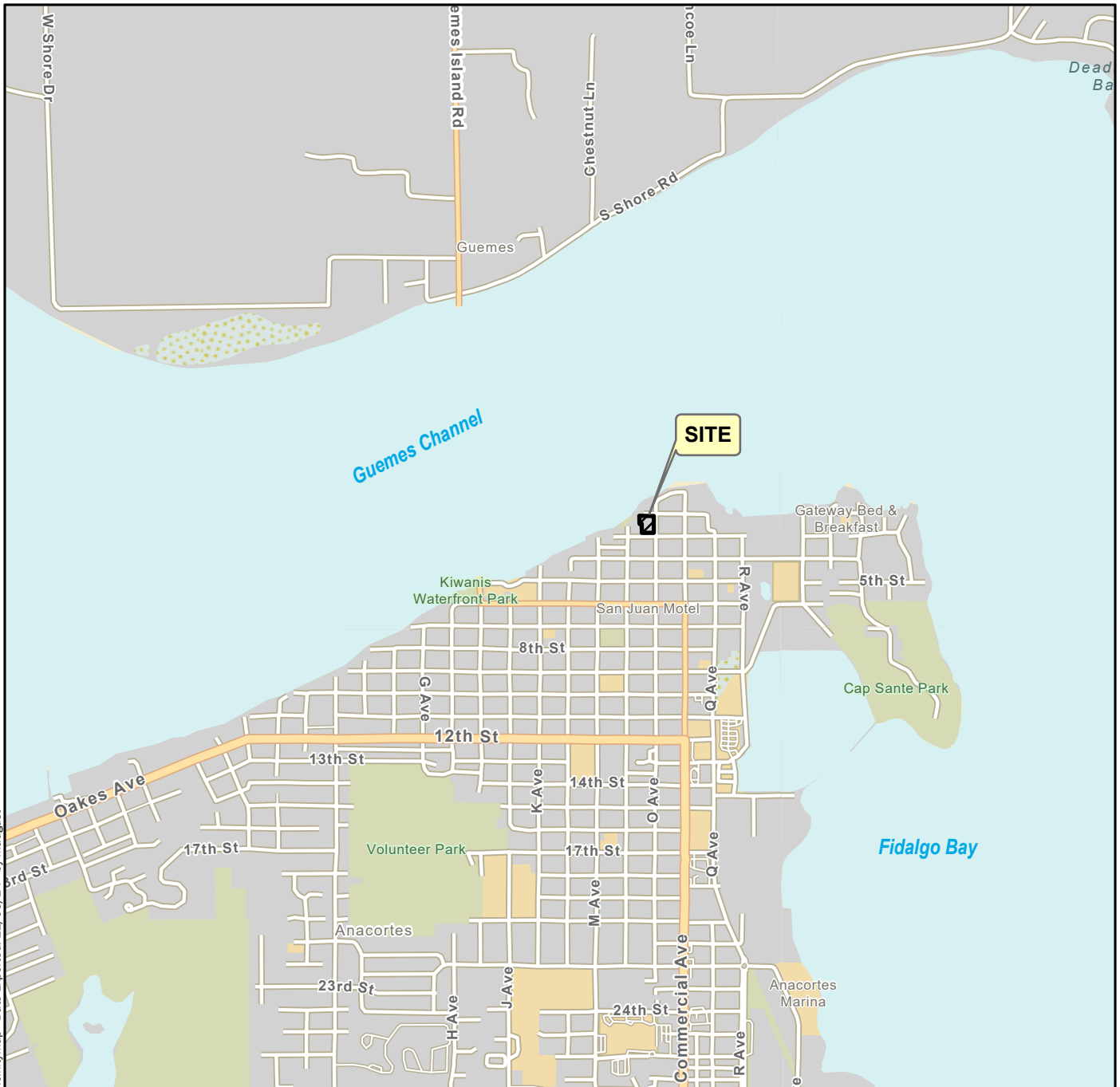
J = The analyte was detected and the detected concentration is considered an estimate.

Blue shading indicates that the practical quantitation limit (PQL) is above screening level.

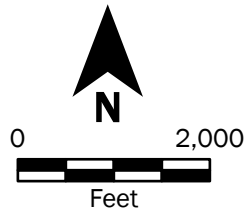
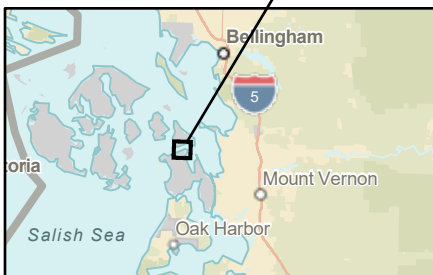
Yellow shading indicates that the identified concentration is greater than the preliminary screening level.

Bold font type indicates the analyte was detected at the reported concentration.

Figures



P:\15147024_GIS\15147024-Project.aprx\15147024-14_F01_VicinityMap Date Exported: 12/09/24 by maugust



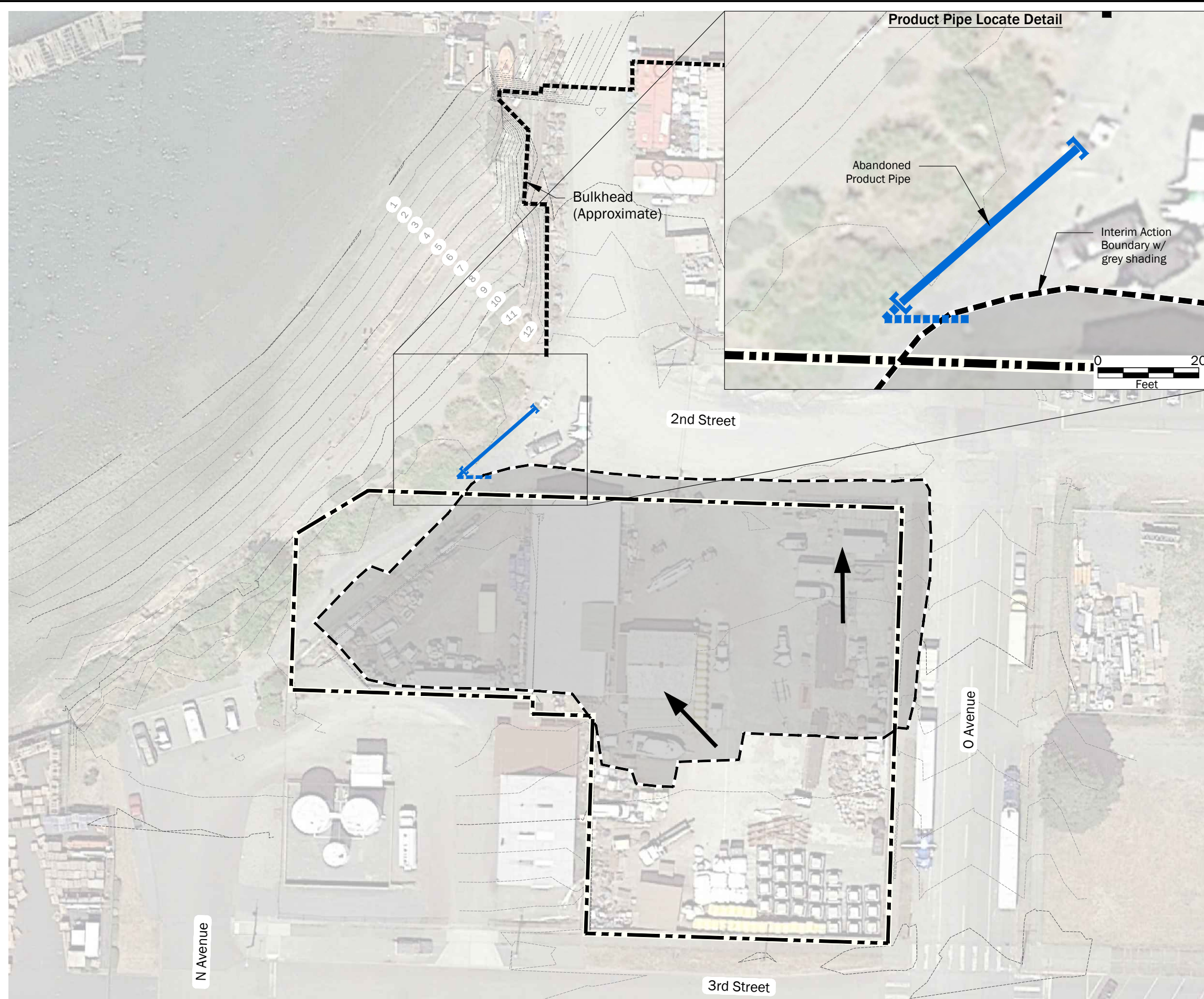
Vicinity Map	
Quiet Cove Site Anacortes, Washington	
	Figure 1

Source(s):
 • ESRI

Coordinate System: NAD 1983 UTM Zone 10N

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P:\5147024\CAD\14\RIFS Work Plan Addenda\514702414_F02_Abandoned Product Pipe Survey.dwg TAB:2 Date Exported: 02/20/25 - 15:10 by Jfellows





- Legend**
- Port of Anacortes Properties at Quiet Cove Site
 - 10 Contour (Feet, NAVD 88)
 - Interim Action Remedial Excavation Horizontal Limits
 - Abandoned Product Pipe (Existing)
 - Product Pipe (Removed)


Source(s):

- Aerial from Google Earth Pro, dated 8/15/2020
- Survey from Sound Development Group, dated 10/11/2017

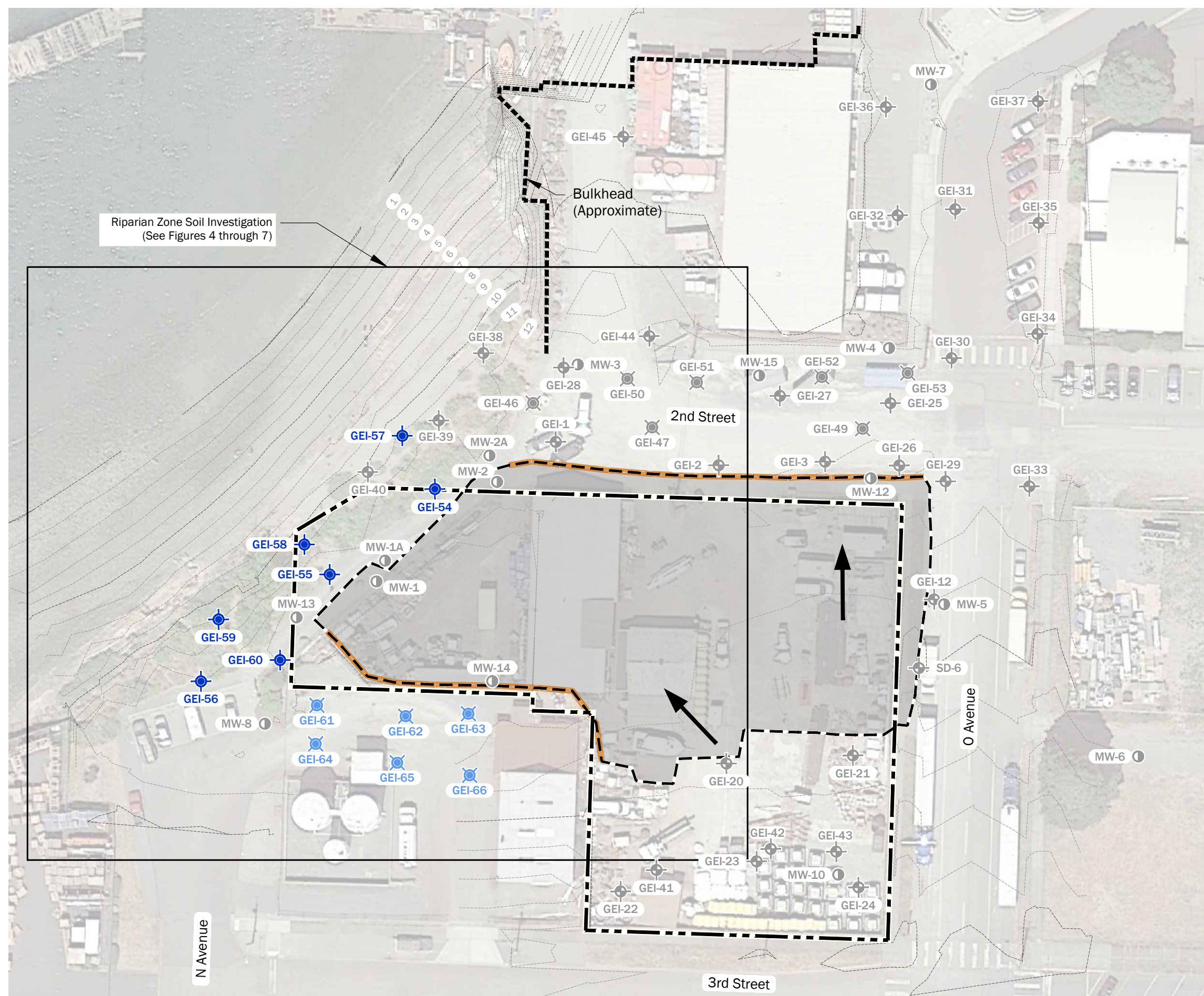
Coordinate System: WA State Plane, North Zone, NAD83, US Foot, NAVD88

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Abandoned Product Pipe Survey	
Quiet Cove Site Anacortes, Washington	
	Figure 2

P:\5147024\CAD\14\RIFS Work Plan Addenda\514702414_F03_Remedial Investigation Soil Sampling Locations for Riparian and Southern Boundary Area (2024).dwg TAB:F03 Date Exported: 02/12/25 - 15:33 by jfellows




- Legend**
- Port of Anacortes Properties at Quiet Cove Site
 - 10 Contour (Feet, NAVD 88)
 - Interim Action Remedial Excavation Horizontal Limits
 - Interim Action Sidewall Soil Sample with Preliminary Screening Level Exceedance
 - GEI-62 Proposed Southern Boundary Soil Boring Location
 - GEI-54 Riparian Area Soil Boring Location (GeoEngineers 2024)
 - GEI-51 2nd Street Data Gap Soil Boring Location (GeoEngineers 2022)
 - MW-1A Historical Monitoring Wells (GeoEngineers, 2017-2021)
 - GEI-39 Historical Soil Boring Borings (GeoEngineers, 2014-2017)
 - Inferred Groundwater Flow Direction


Source(s):


- Aerial from Google Earth Pro, dated 8/15/2020
- Survey from Sound Development Group, dated 10/11/2017

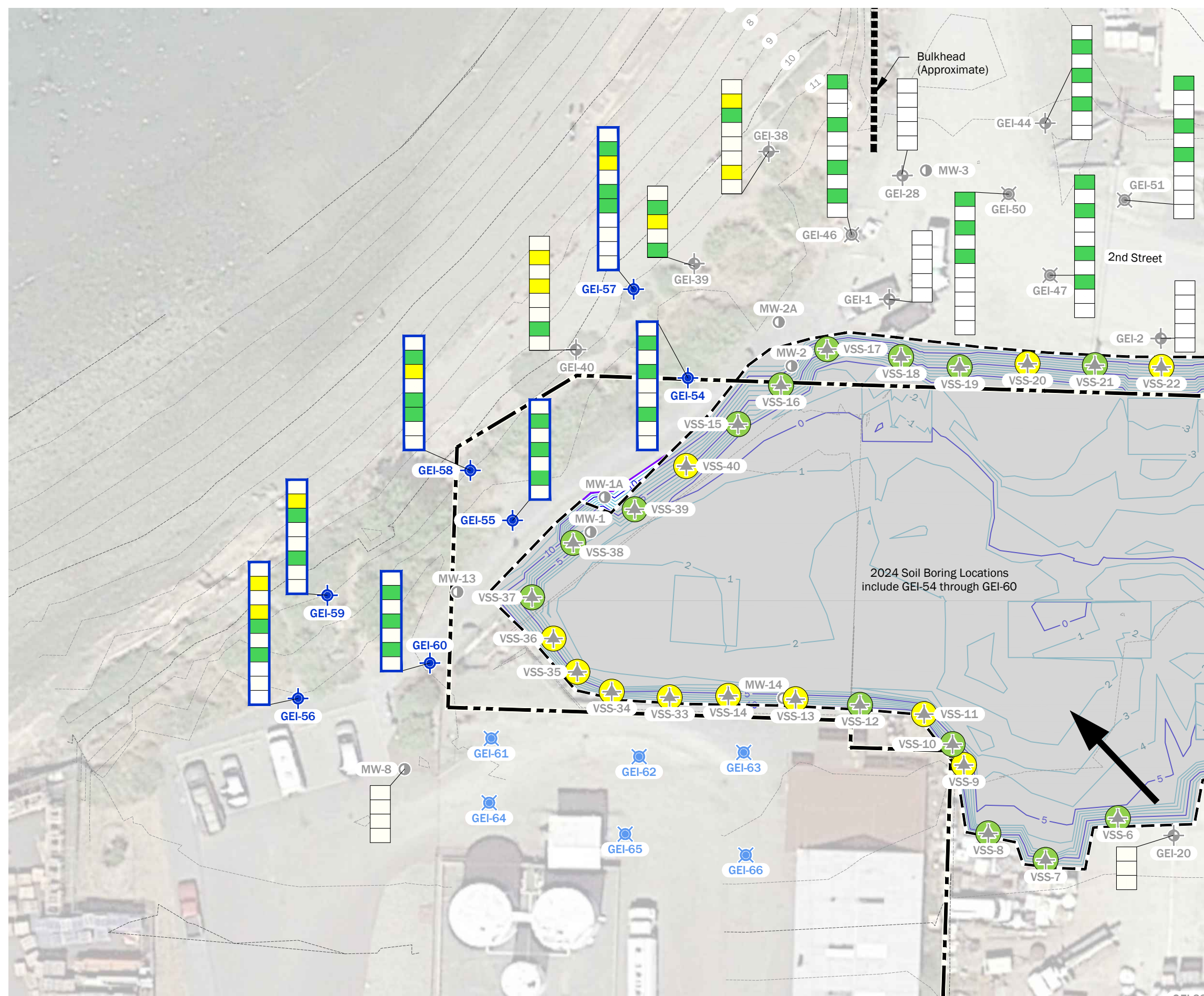
Coordinate System: WA State Plane, North Zone, NAD83, US Foot, NAVD88

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Remedial Investigation Sampling Locations	
Quiet Cove Site Anacortes, Washington	
	Figure 3



- Legend**
- Port of Anacortes Properties at Quiet Cove Site
 - 10 --- Contour (Feet, NAVD 88)
 - Interim Action Remedial Excavation Horizontal Limits
 - 5 --- Excavation Major Contours (ft NAD83)
 - 4 --- Excavation Minor Contours (ft NAD83)
 - GEI-62 Proposed Southern Boundary Soil Boring Location
 - GEI-54 Riparian Area Soil Boring Location (GeoEngineers 2024)
 - GEI-51 2nd Street Data Gap Soil Boring Location (GeoEngineers 2022)
 - VSS-16 Interim Action Side Wall Confirmation Sample (GeoEngineers 2020)
 - MW-1A Historical Monitoring Wells (GeoEngineers, 2017-2021)
 - GEI-39 Historical Soil Boring Borings (GeoEngineers, 2014-2017)
 - Inferred Groundwater Flow Direction

- Depth Interval of Soil Boring Samples**
- Soil Boring - Each Box Represents a 2-foot Sample Interval (Feet Below Ground Surface)
- Soil Chemical Analytical Result**
- Yellow: One or More Metals Detected Greater than the Preliminary Screening Level (PSL)
 - Green: Contaminants Either Not Detected or Detected Less than the PSL
 - White: No Soil Data

Source(s):

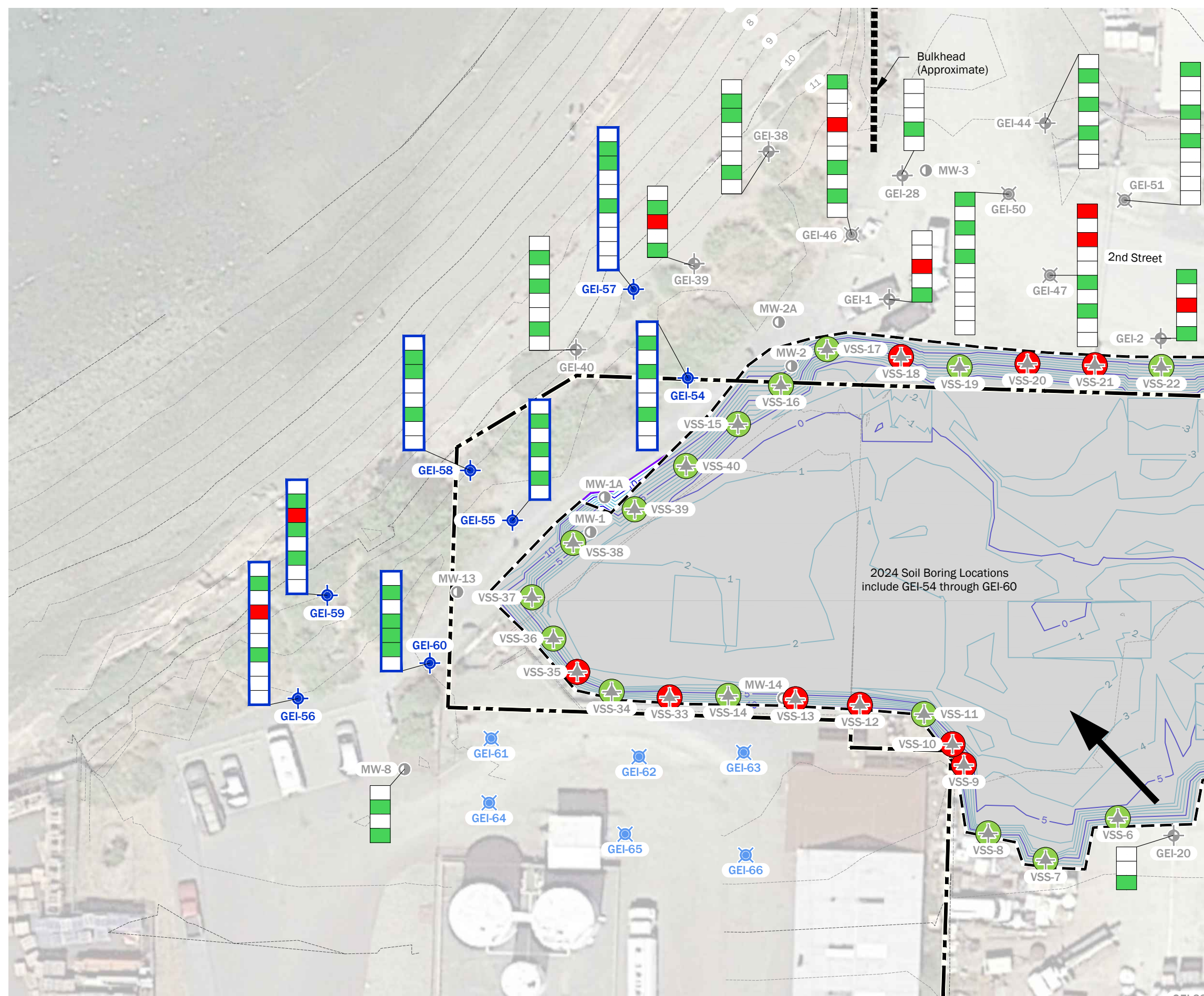
- Aerial from Google Earth Pro, dated 8/15/2020
- Survey from Sound Development Group, dated 10/11/2017

Coordinate System: WA State Plane, North Zone, NAD83, US Foot, NAVD88

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Metals Soil Analytical Results	
Quiet Cove Site Anacortes, Washington	
	Figure 4



- Legend**
- Port of Anacortes Properties at Quiet Cove Site
 - Contour (Feet, NAVD 88)
 - Interim Action Remedial Excavation Horizontal Limits
 - Excavation Major Contours (ft NAD83)
 - Excavation Minor Contours (ft NAD83)
 - Proposed Southern Boundary Soil Boring Location
 - Riparian Area Soil Boring Location (GeoEngineers 2024)
 - 2nd Street Data Gap Soil Boring Location (GeoEngineers 2022)
 - Interim Action Side Wall Confirmation Sample (GeoEngineers 2020)
 - Historical Monitoring Wells (GeoEngineers, 2017-2021)
 - Historical Soil Boring Borings (GeoEngineers, 2014-2017)
 - Inferred Groundwater Flow Direction

- Depth Interval of Soil Boring Samples**
- Soil Boring - Each Box Represents a 2-foot Sample Interval (Feet Below Ground Surface)
- Soil Chemical Analytical Result**
- Gasoline or Total Diesel/Heavy Oil-Range Hydrocarbons (TPH) Detected Greater than the Preliminary Screening Level (PSL)
 - Contaminants Either Not Detected or Detected Less than the PSL
 - No Soil Data

Source(s):

- Aerial from Google Earth Pro, dated 8/15/2020
- Survey from Sound Development Group, dated 10/11/2017

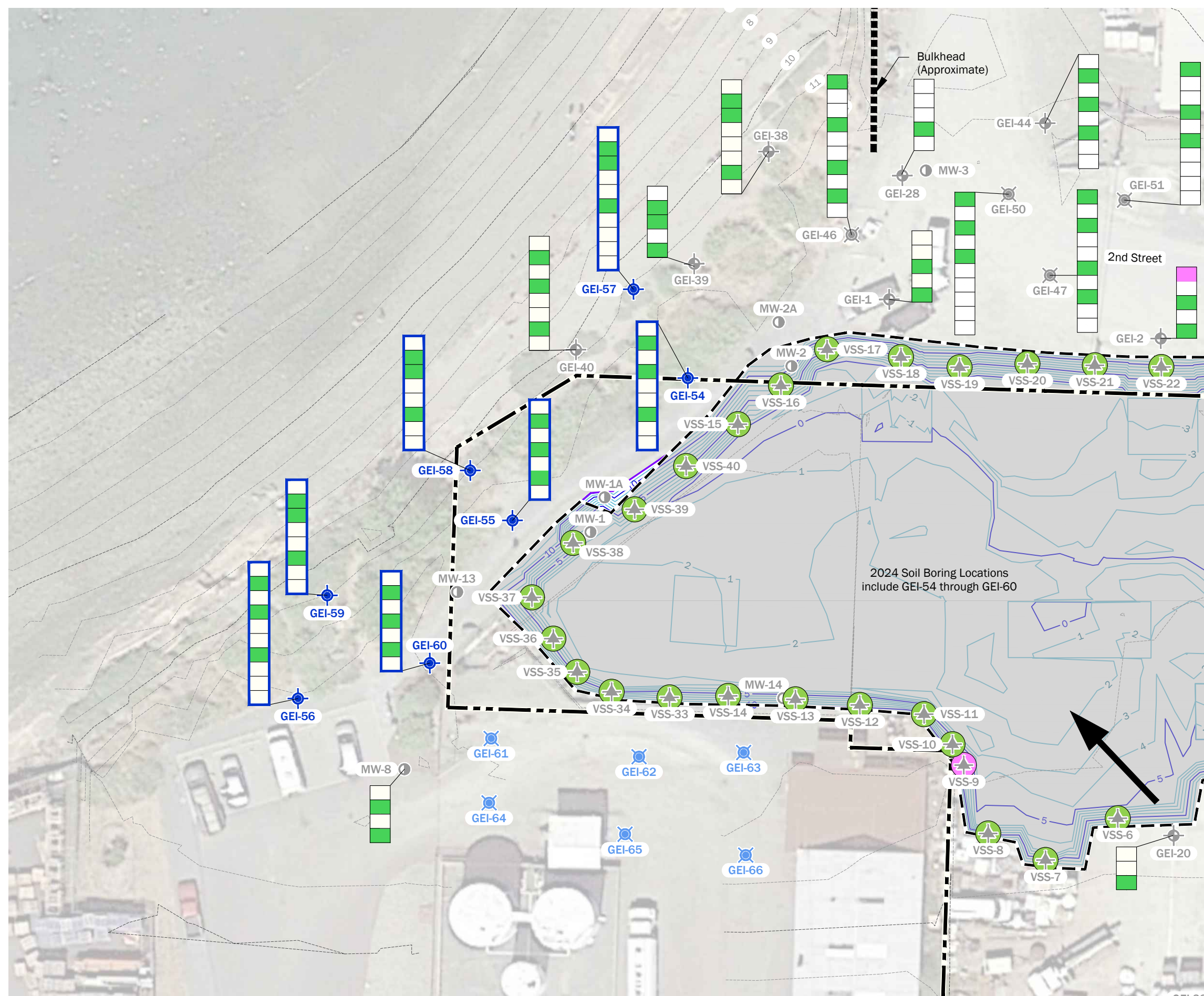
Coordinate System: WA State Plane, North Zone, NAD83, US Foot, NAVD88

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TPH Soil Analytical Results	
Quiet Cove Site Anacortes, Washington	
	Figure 5

P:\5147024\CAD\14\RIFS Work Plan Addenda\514702414_F06_VOC's Soil Analytical Results.dwg TAB:6 Date Exported: 02/21/25 - 14:09 by tmichaud



Legend

- Port of Anacortes Properties at Quiet Cove Site
- Contour (Feet, NAVD 88)
- Interim Action Remedial Excavation Horizontal Limits
- Excavation Major Contours (ft NAD83)
- Excavation Minor Contours (ft NAD83)
- Proposed Southern Boundary Soil Boring Location (GEI-62)
- Riparian Area Soil Boring Location (GeoEngineers 2024) (GEI-54)
- 2nd Street Data Gap Soil Boring Location (GeoEngineers 2022) (GEI-51)
- Interim Action Side Wall Confirmation Sample (GeoEngineers 2020) (VSS-16)
- Historical Monitoring Wells (GeoEngineers, 2017-2021) (MW-1A)
- Historical Soil Boring Borings (GeoEngineers, 2014-2017) (GEI-39)
- Inferred Groundwater Flow Direction

Depth Interval of Soil Boring Samples

- Soil Boring - Each Box Represents a 2-foot Sample Interval (Feet Below Ground Surface)

Soil Chemical Analytical Result

- One or More Volatile Organic Compound (VOC) Analytes Detected Greater than the Preliminary Screening Level (PSL)
- Contaminants Either Not Detected or Detected Less than the PSL
- No Soil Data

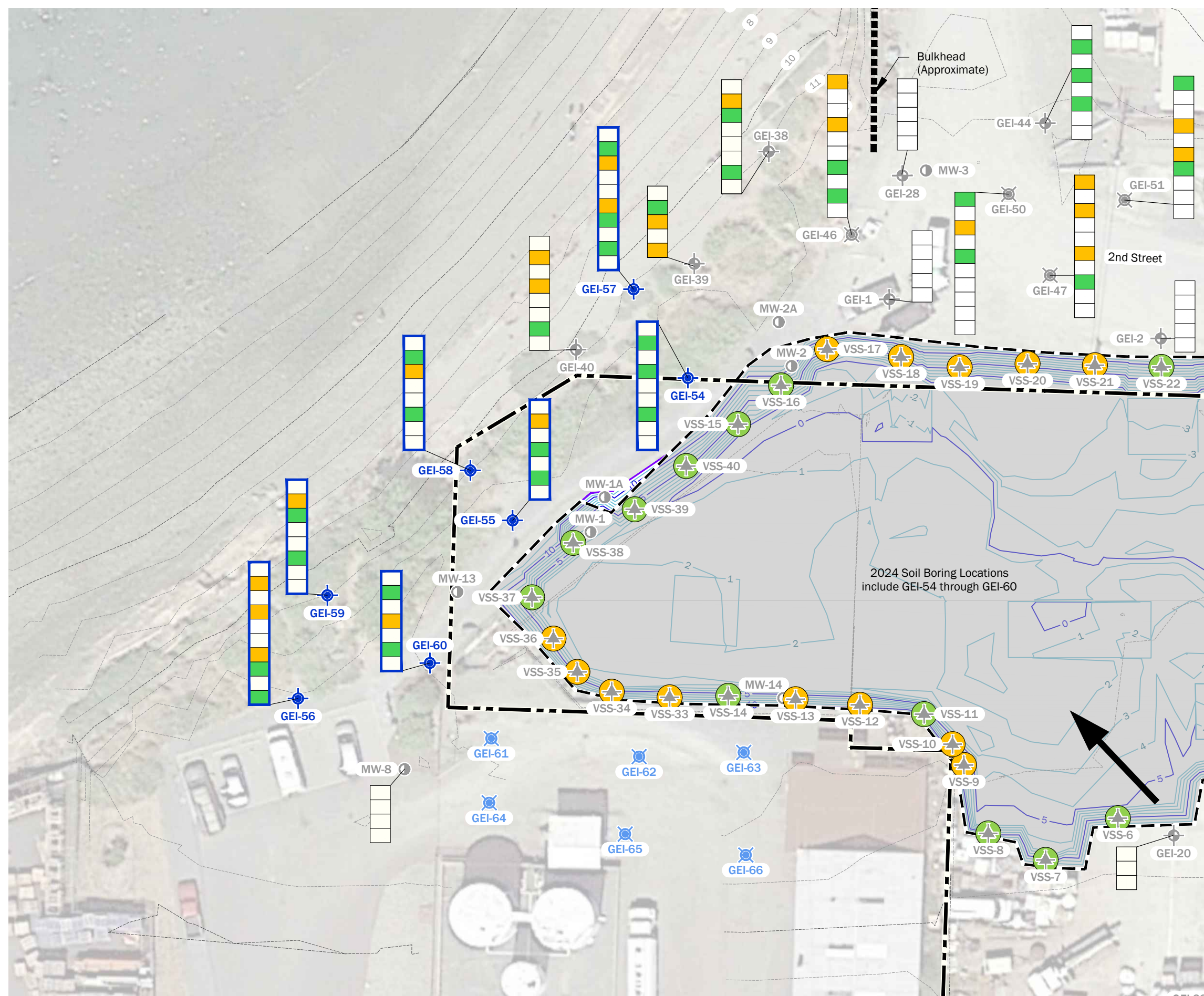
Source(s):
 • Aerial from Google Earth Pro, dated 8/15/2020
 • Survey from Sound Development Group, dated 10/11/2017

Coordinate System: WA State Plane, North Zone, NAD83, US Foot, NAVD88

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VOCs Soil Analytical Results	
Quiet Cove Site Anacortes, Washington	
	Figure 6



- Legend**
- Port of Anacortes Properties at Quiet Cove Site
 - 10----- Contour (Feet, NAVD 88)
 - Interim Action Remedial Excavation Horizontal Limits
 - 5 Excavation Major Contours (ft NAD83)
 - 4 Excavation Minor Contours (ft NAD83)
 - GEI-62 Proposed Southern Boundary Soil Boring Location
 - GEI-54 Riparian Area Soil Boring Location (GeoEngineers 2024)
 - GEI-51 2nd Street Data Gap Soil Boring Location (GeoEngineers 2022)
 - VSS-16 Interim Action Side Wall Confirmation Sample (GeoEngineers 2020)
 - MW-1A Historical Monitoring Wells (GeoEngineers, 2017-2021)
 - GEI-39 Historical Soil Boring Borings (GeoEngineers, 2014-2017)
 - Inferred Groundwater Flow Direction

- Depth Interval of Soil Boring Samples**
- Soil Boring - Each Box Represents a 2-foot Sample Interval (Feet Below Ground Surface)
- Soil Chemical Analytical Result**
- One or More Polycyclic Aromatic Hydrocarbons (PAHs) Analytes Detected Greater than the Preliminary Screening Level (PSL)
 - Contaminants Either Not Detected or Detected Less than the PSL
 - No Soil Data

Source(s):

- Aerial from Google Earth Pro, dated 8/15/2020
- Survey from Sound Development Group, dated 10/11/2017

Coordinate System: WA State Plane, North Zone, NAD83, US Foot, NAVD88














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PAHs Soil Analytical Results	
Quiet Cove Site Anacortes, Washington	
	Figure 7








Attachment A
Exploration Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	Modified California Sampler (6-inch sleeve) or Dames & Moore
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

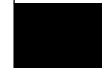


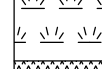

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/Quarry Spalls
	SOD	Sod/Forest Duff
	TS	Topsoil

Groundwater Contact




Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer


Graphic Log Contact

 Distinct contact between soil strata

 Approximate contact between soil strata

Material Description Contact

 Contact between geologic units

 Contact between soil of the same geologic unit

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point load test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
UU	Unconsolidated undrained triaxial compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

Key to Exploration Logs

Start Drilled	11/13/2024	End	11/13/2024	Total Depth (ft)	18	Logged By	NRS	Checked By	BJT	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	12 NAVD88			Hammer Data	NA			Drilling Equipment	Track Drill Rig				
Easting (X) Northing (Y)	1208626.76 559690.41			System Datum	WA State Plane North Zone			See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0		41			GEI-54_0.0-2.0	SM	Dark brown silty fine to coarse sand with gravel and trace organics (moist)	NS	<1	Groundwater observed at approximately 6½ feet bgs during drilling
					GEI-54_2.0-4.0 CA	SM	Brown silty fine to coarse sand with trace gravel (moist)	NS	<1	
					GEI-54_4.0-6.0	SP	Dark brown fine to coarse sand with trace silt (moist)	NS	<1	
5		47			GEI-54_6.0-8.0 CA	SP-SM	Brown fine to coarse sand with silt (moist)	NS	<1	
					GEI-54_8.0-10.0	SP-SM	Dark gray fine to coarse sand with trace silt (moist)	NS	<1	
					GEI-54_10.0-12.0	SP	Becomes wet	NS	<1	
10		57			GEI-54_12.0-14.0 CA	SP	Light gray fine to coarse sand with gravel and trace silt (wet)	NS	<1	
					GEI-54_14.0-16.0	ML	Brown-gray silt with sand and trace gravel (moist)	NS	<1	
15		36			GEI-54_16.0-18.0	ML	Brown silt with sand (moist)	NS	<1	
						ML	Brown silt with sand (moist)	NS	<1	
Boring terminated at approximately 18 feet below ground surface (bgs) due to refusal										

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on handheld GPS unit. Vertical approximated based on 2017 Sound Development Group survey.

Log of Boring GEI-54



Project: Quiet Cove Site
Project Location: Anacortes, Washington
Project Number: 5147-024-14

Date: 2/1/25 Path: P:\5147024\GINT\5147024\GINT_5147024\GIB\GIB_ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	11/13/2024	End	11/13/2024	Total Depth (ft)	14	Logged By	NRS	Checked By	BJT	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	12 NAVD88			Hammer Data	NA			Drilling Equipment	Track Drill Rig				
Easting (X) Northing (Y)	1208574.62 559648.06			System Datum	WA State Plane North Zone			See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	40				GEI-55_0.0-2.0	SM	Brown silty fine to medium sand with trace organics (wet)	NS	<1	Groundwater observed at approximately 5 feet bgs during drilling	
10					GEI-55_2.0-4.0 CA	SM	Light brown silty fine to coarse sand (moist)	NS	<1		
					GEI-55_4.0-6.0	SM	Black-dark brown silty fine to medium sand with trace organics (moist)	NS	<1		
5	50				GEI-55_6.0-8.0 CA	SP-SM	Dark gray fine to medium sand with silt and occasional gravel (wet)	NS	<1		
					GEI-55_8.0-10.0	SP-SM	Dark brown fine to medium sand with silt and occasional gravel (wet)	NS	<1		
					GEI-55_10.0-12.0 CA	SP-SM	Dark brown fine to medium sand with silt and occasional gravel (wet)	SS	<1		
	40				GEI-55_12.0-14.0	CR	Light brown crushed rock (wet) (railroad ballast?)	NS	<1		
						ML	Gray silt with fine sand (moist)	NS	<1		

Boring terminated at approximately 14 feet bgs due to refusal

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on handheld GPS unit. Vertical approximated based on 2017 Sound Development Group survey.

Log of Boring GEI-55



Project: Quiet Cove Site
Project Location: Anacortes, Washington
Project Number: 5147-024-14

Date: 2/1/25 Path: P:\5147024\GINT\5147024\4.GPJ DBLibrary/Library\GEOENGINEERS_DF_STD_US_JUNE_2017\GLB\GEI6_ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	11/13/2024	End	11/13/2024	Total Depth (ft)	20	Logged By	NRS	Checked By	BJT	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	13.01 NAVD88			Hammer Data	NA			Drilling Equipment	Track Drill Rig				
Easting (X) Northing (Y)	1208510.81 559595.08			System Datum	WA State Plane North Zone			See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0	30			GEI-56_0.0-2.0	CA	SM	Dark brown silty fine to coarse sand with trace organics (wet)	NS	<1	Groundwater observed at approximately 5 feet bgs during drilling
				GEI-56_2.0-4.0	CA	SM	Brown silty fine to coarse sand with gravel (moist)	NS	<1	
				GEI-56_4.0-6.0		ML	Gray silt with sand, gravel and organic matter (moist)	NS	<1	
5	50			GEI-56_6.0-8.0	CA	SM	Dark gray silty fine to medium sand with occasional gravel (wet)	NS	<1	
				GEI-56_8.0-10.0	CA			SS	5.1	
10	24					NR	No recovery	NS	<1	
				GEI-56_12.0-14.0	CA	SP	Dark gray fine to coarse sand with gravel and trace silt (wet)	NS	<1	
				GEI-56_14.0-16.0	CA			NS	<1	
15	48			GEI-56_16.0-18.0		SM	Light brown silty fine to medium sand (wet)	NS	<1	
				GEI-56_18.0-20.0	CA			NS	<1	

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on handheld GPS unit. Vertical approximated based on 2017 Sound Development Group survey.

Log of Boring GEI-56



Project: Quiet Cove Site
Project Location: Anacortes, Washington
Project Number: 5147-024-14

Date: 2/21/25 Path: P:\5147024\GINT_5147024_14.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017\GLB\GEI6_ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	11/13/2024	End	11/13/2024	Total Depth (ft)	20	Logged By	NRS	Checked By	BJT	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	11.19 NAVD88			Hammer Data	NA			Drilling Equipment	Track Drill Rig				
Easting (X) Northing (Y)	1208610.61 559716.81			System Datum	WA State Plane North Zone			See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0	51			GEI-57_0.0-2.0		SP	Brown fine to medium sand with silt (moist)	NS	<1	
				GEI-57_2.0-4.0	CA	Rock	Rock	NS	<1	
				GEI-57_4.0-6.0	CA	SP	Brown fine to coarse sand with silt (moist)	NS	8.5	
5	34			GEI-57_6.0-8.0		SM	Dark brown-black silty fine to coarse sand with gravel (moist)	NS	<1	Groundwater observed at approximately 6 feet bgs during drilling
				GEI-57_8.0-10.0	CA	SM	Dark brown silty fine to coarse sand with gravel (wet)	NS	<1	
				GEI-57_10.0-12.0	CA	SM	Brown silty fine to coarse sand with occasional gravel (wet)	NS	<1	
				GEI-57_12.0-14.0	CA			SS	<1	
				GEI-57_14.0-16.0		ML	Light gray silt with sand (wet)	NS	<1	
15	60			GEI-57_16.0-18.0	CA	ML	Brown-gray silt with trace sand (moist)	NS	<1	
				GEI-57_18.0-20.0				NS	<1	

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on handheld GPS unit. Vertical approximated based on 2017 Sound Development Group survey.

Log of Boring GEI-57



Project: Quiet Cove Site
Project Location: Anacortes, Washington
Project Number: 5147-024-14

Date: 2/1/25 Path: P:\5147024\GINT_5147024\GINT_5147024\GPI_DB\Library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017\GLB\GEI6_ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	11/13/2024	End	11/13/2024	Total Depth (ft)	15	Logged By	NRS	Checked By	BJT	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft)	10.99 NAVD88			Hammer Data	NA			Drilling Equipment	Track Drill Rig				
Easting (X)	1208562.06			System Datum	WA State Plane North Zone			See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0	40			GEI-58_0.0-2.0		SP	Light brown-gray fine to coarse sand with occasional gravel (moist)	NS	<1	
				GEI-58_2.0-4.0 CA		SP	Brown-light brown fine to coarse sand with silt (moist)	NS	<1	
				GEI-58_4.0-6.0 CA		SP-SM	Dark brown-brown fine to coarse sand with silt and occasional gravel (moist)	NS	<1	
5	55			GEI-58_6.0-8.0		SM	Dark gray silty fine to coarse sand with gravel (wet)	NS	<1	Groundwater observed at approximately 6 feet bgs during drilling
				GEI-58_8.0-10.0 CA				NS	<1	
10	60			GEI-58_10.0-12.0 CA				NS	<1	
				GEI-58_12.0-14.0		ML	Gray-brown silt with sand (wet)	NS	<1	
				GEI-58_14.0-15.0				NS	<1	

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on handheld GPS unit. Vertical approximated based on 2017 Sound Development Group survey.

Log of Boring GEI-58



Project: Quiet Cove Site
Project Location: Anacortes, Washington
Project Number: 5147-024-14

Date: 2/21/25 Path: P:\5147024\GINT\5147024\GINT\5147024\GPI DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB\ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	11/13/2024	End	11/13/2024	Total Depth (ft)	16	Logged By	NRS	Checked By	BJT	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	11.03 NAVD88			Hammer Data	NA			Drilling Equipment	Track Drill Rig				
Easting (X) Northing (Y)	1208519.52 559625.78			System Datum	WA State Plane North Zone			See "Remarks" section for groundwater observed					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	48				GEI-59_0.0-2.0	SP	Light gray fine to coarse sand with trace organics (moist)	NS	<1		
					GEI-59_2.0-4.0 CA	SP	Brown-orange fine to coarse sand with trace silt and occasional gravel (moist)	SS	<1		
					GEI-59_4.0-6.0 CA	SM	Dark brown silty fine to coarse sand with occasional gravel (moist)	NS	<1		
	50				GEI-59_Dup-1	SM	Dark brown silty fine to coarse sand with occasional gravel and trace organics (moist)	NS	<1		
					GEI-59_6.0-8.0 CA	SP-SM	Dark gray fine to coarse sand with silt and occasional gravel (moist)	HS	179.3		
					GEI-59_8.0-10.0		Becomes wet	NS	<1	Groundwater observed at approximately 6 feet bgs during drilling	
10	42				GEI-59_10.0-12.0 CA	SM	Dark gray silty fine to coarse sand with gravel (wet)	NS	<1		
					GEI-59_12.0-14.0			NS	<1		
					GEI-59_14.0-16.0	SM	Brown silty fine to medium sand (wet)	NS	<1		
	12					ML	Light gray silt with sand and trace gravel (moist)	NS	<1		

Boring terminated at approximately 16 feet bgs due to refusal

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on handheld GPS unit. Vertical approximated based on 2017 Sound Development Group survey.

Log of Boring GEI-59



Project: Quiet Cove Site
Project Location: Anacortes, Washington
Project Number: 5147-024-14

Date: 2/21/25 Path: P:\5147024\GINT\5147024\GINT\5147024\GPI DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017\GLB\GEI6_ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	11/13/2024	End	11/13/2024	Total Depth (ft)	14	Logged By	NRS	Checked By	BJT	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft)	12.96			Hammer Data	NA			Drilling Equipment	Track Drill Rig				
Vertical Datum	NAVD88			System Datum	WA State Plane North Zone			See "Remarks" section for groundwater observed					
Easting (X)	1208550.02												
Northing (Y)	559605.63												
Notes:													

Elevation (feet)	FIELD DATA					Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
0		31			GEI-60_0.0-2.0	SM	Gray silty fine to coarse sand with gravel (moist)	NS	<1	Groundwater observed at approximately 5 feet bgs during drilling
					GEI-60_2.0-4.0 CA	SM	Black silty fine to coarse sand (moist)	NS	<1	
					GEI-60_4.0-6.0	SM	Light brown silty fine to coarse sand (moist)	NS	<1	
					GEI-60_6.0-8.0 CA	SM	Brown silty fine to coarse sand with gravel (moist)	NS	<1	
5		25			GEI-60_8.0-10.0 CA	SP	Dark gray fine to coarse sand with silt (wet)	NS	<1	
					GEI-60_10.0-12.0 CA	SM	Dark gray silty fine to coarse sand with gravel (wet)	NS	<1	
					GEI-60_Dup-1	SM		NS	<1	
					GEI-60_12.0-14	ML	Gray silt with sand and trace gravel (moist)	NS	<1	
						ML	Gray silt with sand (moist)	NS	<1	

Boring terminated at approximately 14 feet bgs due to refusal

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on handheld GPS unit. Vertical approximated based on 2017 Sound Development Group survey.

Log of Boring GEI-60



Project: Quiet Cove Site
Project Location: Anacortes, Washington
Project Number: 5147-024-14

Date: 2/21/25 Path: P:\5147024\GINT\5147024\GINT\5147024\GPI DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017\GLB\GEI6_ENVIRONMENTAL_STANDARD_NO_GW

Attachment B
Laboratory Data Report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 18, 2024

Brian Tracy
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 05147-024-14
Laboratory Reference No. 2411-196

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on November 14, 2024.

Please note that the data for the standard turn around analyses will follow in the final report.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Goodrow", written over a circular scribble.

Blair Goodrow
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 18, 2024
Samples Submitted: November 14, 2024
Laboratory Reference: 2411-196
Project: 05147-024-14

Case Narrative

Samples were collected on November 13, 2024 and received by the laboratory on November 14, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

All four internal standards did not meet acceptance criteria for sample GEI-DUP1. The sample was re-analyzed with similar results. Leaks in the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. Method 5035A states that for low-level VOC analysis the purge-and-trap system employed must be capable of agitating the sealed sample during the purging process. The purge-and-trap system that OnSite Environmental utilizes for the analysis of low-level VOCs has a stir motor that spins a magnetic stir bar within the sample thereby agitating the sample and providing more efficient purging. Due to the aforementioned failed analyses, a VOA vial without a stir bar was analyzed and reported for the low-level VOC analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: November 18, 2024
 Samples Submitted: November 14, 2024
 Laboratory Reference: 2411-196
 Project: 05147-024-14

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
GEI-54_2.0-4.0	11-196-02	Soil	11-13-24	11-14-24	
GEI-54_6.0-8.0	11-196-04	Soil	11-13-24	11-14-24	
GEI-54_12.0-14.0	11-196-07	Soil	11-13-24	11-14-24	
GEI-55_2.0-4.0	11-196-11	Soil	11-13-24	11-14-24	
GEI-55_6.0-8.0	11-196-13	Soil	11-13-24	11-14-24	
GEI-55_10.0-12.0	11-196-15	Soil	11-13-24	11-14-24	
GEI-56_2.0-4.0	11-196-17	Soil	11-13-24	11-14-24	
GEI-56_6.0-8.0	11-196-19	Soil	11-13-24	11-14-24	
GEI-56_12.0-14.0	11-196-21	Soil	11-13-24	11-14-24	
GEI-57_2.0-4.0	11-196-26	Soil	11-13-24	11-14-24	
GEI-57_4.0-6.0	11-196-27	Soil	11-13-24	11-14-24	
GEI-57_10.0-12.0	11-196-30	Soil	11-13-24	11-14-24	
GEI-58_2.0-4.0	11-196-36	Soil	11-13-24	11-14-24	
GEI-58_4.0-6.0	11-196-37	Soil	11-13-24	11-14-24	
GEI-58_10.0-12.0	11-196-40	Soil	11-13-24	11-14-24	
GEI-59_2.0-4.0	11-196-44	Soil	11-13-24	11-14-24	
GEI-59_4.0-6.0	11-196-45	Soil	11-13-24	11-14-24	
GEI-59_10.0-12.0	11-196-48	Soil	11-13-24	11-14-24	
GEI-60_2.0-4.0	11-196-52	Soil	11-13-24	11-14-24	
GEI-60_6.0-8.0	11-196-54	Soil	11-13-24	11-14-24	
GEI-60_10.0-12.0	11-196-56	Soil	11-13-24	11-14-24	
GEI-DUP1	11-196-58	Soil	11-13-24	11-14-24	
GEI-DUP2	11-196-59	Soil	11-13-24	11-14-24	



Date of Report: November 18, 2024
 Samples Submitted: November 14, 2024
 Laboratory Reference: 2411-196
 Project: 05147-024-14

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-54_2.0-4.0					
Laboratory ID:	11-196-02					
Gasoline	ND	6.1	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	77	62-134				
Client ID:	GEI-54_6.0-8.0					
Laboratory ID:	11-196-04					
Gasoline	ND	6.7	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	62-134				
Client ID:	GEI-54_12.0-14.0					
Laboratory ID:	11-196-07					
Gasoline	ND	4.4	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	70	62-134				
Client ID:	GEI-55_2.0-4.0					
Laboratory ID:	11-196-11					
Gasoline	ND	5.7	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	62-134				
Client ID:	GEI-55_6.0-8.0					
Laboratory ID:	11-196-13					
Gasoline	ND	6.7	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	62-134				
Client ID:	GEI-55_10.0-12.0					
Laboratory ID:	11-196-15					
Gasoline	ND	5.6	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	62-134				
Client ID:	GEI-56_2.0-4.0					
Laboratory ID:	11-196-17					
Gasoline Range Organics	10	6.0	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	62-134				



Date of Report: November 18, 2024
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 Laboratory Reference: 2411-196
 Project: 05147-024-14

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-56_6.0-8.0					
Laboratory ID:	11-196-19					
Gasoline Range Organics	74	7.3	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	62-134				
Client ID:	GEI-56_12.0-14.0					
Laboratory ID:	11-196-21					
Gasoline	ND	4.7	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	62-134				
Client ID:	GEI-57_2.0-4.0					
Laboratory ID:	11-196-26					
Gasoline	ND	5.5	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	62-134				
Client ID:	GEI-57_4.0-6.0					
Laboratory ID:	11-196-27					
Gasoline	ND	6.5	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	62-134				
Client ID:	GEI-57_10.0-12.0					
Laboratory ID:	11-196-30					
Gasoline	ND	5.3	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	62-134				
Client ID:	GEI-58_2.0-4.0					
Laboratory ID:	11-196-36					
Gasoline	ND	5.3	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	62-134				
Client ID:	GEI-58_4.0-6.0					
Laboratory ID:	11-196-37					
Gasoline	ND	6.1	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	62-134				



Date of Report: November 18, 2024
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 Laboratory Reference: 2411-196
 Project: 05147-024-14

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-58_10.0-12.0					
Laboratory ID:	11-196-40					
Gasoline	ND	5.1	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	62-134				
Client ID:	GEI-59_2.0-4.0					
Laboratory ID:	11-196-44					
Gasoline	ND	6.5	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	62-134				
Client ID:	GEI-59_4.0-6.0					
Laboratory ID:	11-196-45					
Gasoline Range Organics	65	7.1	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	62-134				
Client ID:	GEI-59_10.0-12.0					
Laboratory ID:	11-196-48					
Gasoline	ND	5.0	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	62-134				
Client ID:	GEI-60_2.0-4.0					
Laboratory ID:	11-196-52					
Gasoline	ND	6.2	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	62-134				
Client ID:	GEI-60_6.0-8.0					
Laboratory ID:	11-196-54					
Gasoline	ND	6.8	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	62-134				
Client ID:	GEI-60_10.0-12.0					
Laboratory ID:	11-196-56					
Gasoline	ND	6.3	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	62-134				



Date of Report: November 18, 2024
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 Project: 05147-024-14

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-DUP1					
Laboratory ID:	11-196-58					
Gasoline Range Organics	65	7.4	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	62-134				
Client ID:	GEI-DUP2					
Laboratory ID:	11-196-59					
Gasoline	ND	6.1	NWTPH-Gx	11-15-24	11-15-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	62-134				



Date of Report: November 18, 2024
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Project: 05147-024-14

**DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx**



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 18, 2024
Samples Submitted: November 14, 2024
Laboratory Reference: 2411-196
Project: 05147-024-14

**DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx**



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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**DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx**



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Project: 05147-024-14

**DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx**



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 18, 2024
 Samples Submitted: November 14, 2024
 Laboratory Reference: 2411-196
 Project: 05147-024-14

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-54_2.0-4.0					
Laboratory ID:	11-196-02					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0050	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00050	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00050	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	103	69-124				
<i>Toluene-d8</i>	101	80-118				
<i>4-Bromofluorobenzene</i>	98	75-123				

Client ID:	GEI-54_6.0-8.0					
Laboratory ID:	11-196-04					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0057	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0023	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	109	69-124				
<i>Toluene-d8</i>	107	80-118				
<i>4-Bromofluorobenzene</i>	110	75-123				



Date of Report: November 18, 2024
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 Project: 05147-024-14

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-54_12.0-14.0					
Laboratory ID:	11-196-07					
Methyl t-Butyl Ether	ND	0.00088	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0044	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.00088	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00044	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.00088	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00044	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.00088	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0018	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.00088	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>75-123</i>				

Client ID:	GEI-55_2.0-4.0					
Laboratory ID:	11-196-11					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0050	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00050	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00050	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>75-123</i>				



Date of Report: November 18, 2024
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 Laboratory Reference: 2411-196
 Project: 05147-024-14

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-55_6.0-8.0					
Laboratory ID:	11-196-13					
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0059	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0012	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00059	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0012	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00059	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0012	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0023	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0012	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	106	69-124				
<i>Toluene-d8</i>	104	80-118				
<i>4-Bromofluorobenzene</i>	103	75-123				

Client ID:	GEI-55_10.0-12.0					
Laboratory ID:	11-196-15					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0057	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0023	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	105	69-124				
<i>Toluene-d8</i>	103	80-118				
<i>4-Bromofluorobenzene</i>	102	75-123				



Date of Report: November 18, 2024
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 Project: 05147-024-14

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-56_2.0-4.0					
Laboratory ID:	11-196-17					
Methyl t-Butyl Ether	ND	0.00098	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0049	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.00098	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00049	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.00098	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00049	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.00098	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.00098	EPA 8260D	11-16-24	11-16-24	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	108	69-124
Toluene-d8	101	80-118
4-Bromofluorobenzene	95	75-123

Client ID:	GEI-56_6.0-8.0					
Laboratory ID:	11-196-19					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0051	EPA 8260D	11-16-24	11-16-24	
Benzene	0.0019	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00051	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00051	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	0.0055	0.0020	EPA 8260D	11-16-24	11-16-24	
o-Xylene	0.0012	0.0010	EPA 8260D	11-16-24	11-16-24	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	105	69-124
Toluene-d8	105	80-118
4-Bromofluorobenzene	103	75-123



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VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-56_12.0-14.0					
Laboratory ID:	11-196-21					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
n-Hexane	ND	0.0051	EPA 8260D	11-18-24	11-18-24	
Benzene	0.0016	0.0010	EPA 8260D	11-18-24	11-18-24	
1,2-Dichloroethane	ND	0.00051	EPA 8260D	11-18-24	11-18-24	
Toluene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
1,2-Dibromoethane	ND	0.00051	EPA 8260D	11-18-24	11-18-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-18-24	11-18-24	
o-Xylene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>75-123</i>				

Client ID:	GEI-57_2.0-4.0					
Laboratory ID:	11-196-26					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0055	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00055	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00055	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0022	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>75-123</i>				



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 Project: 05147-024-14

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-57_4.0-6.0					
Laboratory ID:	11-196-27					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0053	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00053	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00053	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0021	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	103	69-124				
<i>Toluene-d8</i>	102	80-118				
<i>4-Bromofluorobenzene</i>	99	75-123				

Client ID:	GEI-57_10.0-12.0					
Laboratory ID:	11-196-30					
Methyl t-Butyl Ether	ND	0.00099	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0049	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.00099	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00049	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.00099	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00049	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.00099	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.00099	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	105	69-124				
<i>Toluene-d8</i>	101	80-118				
<i>4-Bromofluorobenzene</i>	101	75-123				



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VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-58_2.0-4.0					
Laboratory ID:	11-196-36					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0053	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00053	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00053	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0021	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	104	69-124
<i>Toluene-d8</i>	100	80-118
<i>4-Bromofluorobenzene</i>	98	75-123

Client ID:	GEI-58_4.0-6.0					
Laboratory ID:	11-196-37					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0052	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00052	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00052	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0021	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	104	69-124
<i>Toluene-d8</i>	102	80-118
<i>4-Bromofluorobenzene</i>	101	75-123



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VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-58_10.0-12.0					
Laboratory ID:	11-196-40					
Methyl t-Butyl Ether	ND	0.00073	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0037	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.00073	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00037	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.00073	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00037	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.00073	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0015	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.00073	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>75-123</i>				

Client ID:	GEI-59_2.0-4.0					
Laboratory ID:	11-196-44					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0057	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0023	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>75-123</i>				



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VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-59_4.0-6.0					
Laboratory ID:	11-196-45					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0057	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00057	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0031	EPA 8260D	11-16-24	11-16-24	U1
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	102	69-124
Toluene-d8	106	80-118
4-Bromofluorobenzene	108	75-123

Client ID:	GEI-59_10.0-12.0					
Laboratory ID:	11-196-48					
Methyl t-Butyl Ether	ND	0.00094	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0047	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.00094	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00047	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.00094	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00047	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.00094	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0019	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.00094	EPA 8260D	11-16-24	11-16-24	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	101	69-124
Toluene-d8	100	80-118
4-Bromofluorobenzene	99	75-123



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VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-60_2.0-4.0					
Laboratory ID:	11-196-52					
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0053	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00053	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00053	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0021	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0011	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>75-123</i>				

Client ID:	GEI-60_6.0-8.0					
Laboratory ID:	11-196-54					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0052	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00052	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00052	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0021	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>75-123</i>				



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VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-60_10.0-12.0					
Laboratory ID:	11-196-56					
Methyl t-Butyl Ether	ND	0.00079	EPA 8260D	11-18-24	11-18-24	
n-Hexane	ND	0.0039	EPA 8260D	11-18-24	11-18-24	
Benzene	ND	0.00079	EPA 8260D	11-18-24	11-18-24	
1,2-Dichloroethane	ND	0.00039	EPA 8260D	11-18-24	11-18-24	
Toluene	ND	0.00079	EPA 8260D	11-18-24	11-18-24	
1,2-Dibromoethane	ND	0.00039	EPA 8260D	11-18-24	11-18-24	
Ethylbenzene	ND	0.00079	EPA 8260D	11-18-24	11-18-24	
m,p-Xylene	ND	0.0016	EPA 8260D	11-18-24	11-18-24	
o-Xylene	ND	0.00079	EPA 8260D	11-18-24	11-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>75-123</i>				

Client ID:	GEI-DUP1					
Laboratory ID:	11-196-58					
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	11-18-24	11-18-24	
n-Hexane	ND	0.0058	EPA 8260D	11-18-24	11-18-24	
Benzene	ND	0.0012	EPA 8260D	11-18-24	11-18-24	
1,2-Dichloroethane	ND	0.00058	EPA 8260D	11-18-24	11-18-24	
Toluene	ND	0.0012	EPA 8260D	11-18-24	11-18-24	
1,2-Dibromoethane	ND	0.00058	EPA 8260D	11-18-24	11-18-24	
Ethylbenzene	ND	0.0012	EPA 8260D	11-18-24	11-18-24	
m,p-Xylene	ND	0.0023	EPA 8260D	11-18-24	11-18-24	
o-Xylene	ND	0.0012	EPA 8260D	11-18-24	11-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>75-123</i>				



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VOLATILE ORGANICS EPA 8260D

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	GEI-DUP2					
Laboratory ID:	11-196-59					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
n-Hexane	ND	0.0051	EPA 8260D	11-18-24	11-18-24	
Benzene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
1,2-Dichloroethane	ND	0.00051	EPA 8260D	11-18-24	11-18-24	
Toluene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
1,2-Dibromoethane	ND	0.00051	EPA 8260D	11-18-24	11-18-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-18-24	11-18-24	
o-Xylene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>69-124</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-118</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>75-123</i>				



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1115S1					
Gasoline	ND	5.0	NWTPH-Gx	11-15-24	11-15-24	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	98	62-134				
Laboratory ID:	MB1115S2					
Gasoline	ND	5.0	NWTPH-Gx	11-15-24	11-15-24	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	102	62-134				
Laboratory ID:	MB1115S3					
Gasoline	ND	5.0	NWTPH-Gx	11-15-24	11-15-24	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	93	62-134				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-196-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				77	75	62-134		
Laboratory ID:	11-196-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				89	81	62-134		
Laboratory ID:	11-196-07							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				70	92	62-134		



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**GASOLINE RANGE ORGANICS
NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD1115G-1	5.00	4.47	11	+/- 20%
CCVD1115G-2	5.00	4.22	16	+/- 20%



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116S1					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
n-Hexane	ND	0.0050	EPA 8260D	11-16-24	11-16-24	
Benzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dichloroethane	ND	0.00050	EPA 8260D	11-16-24	11-16-24	
Toluene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
1,2-Dibromoethane	ND	0.00050	EPA 8260D	11-16-24	11-16-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-16-24	11-16-24	
o-Xylene	ND	0.0010	EPA 8260D	11-16-24	11-16-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	69-124				
<i>Toluene-d8</i>	97	80-118				
<i>4-Bromofluorobenzene</i>	102	75-123				
Laboratory ID:	MB1118S1					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
n-Hexane	ND	0.0050	EPA 8260D	11-18-24	11-18-24	
Benzene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
1,2-Dichloroethane	ND	0.00050	EPA 8260D	11-18-24	11-18-24	
Toluene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
1,2-Dibromoethane	ND	0.00050	EPA 8260D	11-18-24	11-18-24	
Ethylbenzene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
m,p-Xylene	ND	0.0020	EPA 8260D	11-18-24	11-18-24	
o-Xylene	ND	0.0010	EPA 8260D	11-18-24	11-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	103	69-124				
<i>Toluene-d8</i>	100	80-118				
<i>4-Bromofluorobenzene</i>	98	75-123				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		
					Recovery	Limits	RPD	Limit	Flags	
SPIKE BLANKS										
Laboratory ID:		SB1116S1								
	SB	SBD	SB	SBD	SB	SBD				
Methyl t-Butyl Ether	0.0534	0.0578	0.0500	0.0500	107	116	76-129	8	15	
Benzene	0.0514	0.0556	0.0500	0.0500	103	111	75-126	8	15	
1,2-Dichloroethane	0.0524	0.0560	0.0500	0.0500	105	112	70-133	7	15	
Toluene	0.0509	0.0544	0.0500	0.0500	102	109	78-124	7	17	
1,2-Dibromoethane	0.0494	0.0545	0.0500	0.0500	99	109	80-125	10	15	
Ethylbenzene	0.0488	0.0526	0.0500	0.0500	98	105	80-120	7	15	
m,p-Xylene	0.0973	0.105	0.100	0.100	97	105	80-121	8	15	
o-Xylene	0.0481	0.0517	0.0500	0.0500	96	103	80-120	7	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					105	105	69-124			
<i>Toluene-d8</i>					105	104	80-118			
<i>4-Bromofluorobenzene</i>					110	111	75-123			
Laboratory ID:		SB1118S1								
	SB	SBD	SB	SBD	SB	SBD				
Methyl t-Butyl Ether	0.0540	0.0531	0.0500	0.0500	108	106	76-129	2	15	
Benzene	0.0508	0.0509	0.0500	0.0500	102	102	75-126	0	15	
1,2-Dichloroethane	0.0514	0.0514	0.0500	0.0500	103	103	70-133	0	15	
Toluene	0.0507	0.0508	0.0500	0.0500	101	102	78-124	0	17	
1,2-Dibromoethane	0.0560	0.0535	0.0500	0.0500	112	107	80-125	5	15	
Ethylbenzene	0.0518	0.0524	0.0500	0.0500	104	105	80-120	1	15	
m,p-Xylene	0.103	0.104	0.100	0.100	103	104	80-121	1	15	
o-Xylene	0.0513	0.0517	0.0500	0.0500	103	103	80-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					104	103	69-124			
<i>Toluene-d8</i>					100	99	80-118			
<i>4-Bromofluorobenzene</i>					100	100	75-123			



Date of Report: November 18, 2024
 Samples Submitted: November 14, 2024
 Laboratory Reference: 2411-196
 Project: 05147-024-14

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
GEI-54_2.0-4.0	11-196-02	10	11-18-24
GEI-54_6.0-8.0	11-196-04	13	11-18-24
GEI-54_12.0-14.0	11-196-07	5	11-18-24
GEI-55_2.0-4.0	11-196-11	15	11-18-24
GEI-55_6.0-8.0	11-196-13	16	11-18-24
GEI-55_10.0-12.0	11-196-15	15	11-18-24
GEI-56_2.0-4.0	11-196-17	12	11-18-24
GEI-56_6.0-8.0	11-196-19	17	11-18-24
GEI-56_12.0-14.0	11-196-21	8	11-18-24
GEI-57_2.0-4.0	11-196-26	5	11-18-24
GEI-57_4.0-6.0	11-196-27	15	11-18-24
GEI-57_10.0-12.0	11-196-30	13	11-18-24
GEI-58_2.0-4.0	11-196-36	3	11-18-24
GEI-58_4.0-6.0	11-196-37	13	11-18-24
GEI-58_10.0-12.0	11-196-40	11	11-18-24
GEI-59_2.0-4.0	11-196-44	8	11-18-24
GEI-59_4.0-6.0	11-196-45	20	11-18-24
GEI-59_10.0-12.0	11-196-48	15	11-18-24
GEI-60_2.0-4.0	11-196-52	16	11-18-24
GEI-60_6.0-8.0	11-196-54	17	11-18-24
GEI-60_10.0-12.0	11-196-56	12	11-18-24
GEI-DUP1	11-196-58	20	11-18-24
GEI-DUP2	11-196-59	14	11-18-24





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





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Chain of Custody

Laboratory Number: **11-196**

Terraround Request (in working days)

(Check One)
 Same Day 1 Day
 2 Days (6x, 10x, 15x) 3 Days
 Standard (7 Days)
 _____ (other)

Company: **GEOENGINEERS INC.**
Project Number: **OS147-024-14**
Project Name: **POA-QC BAPTIST ZONE SOIL INV.**
Project Manager: **BRYAN TRACY**
Sampled by: **MATE BARNWOOD**

Lab ID _____ Sample Identification _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input checkbox="" type="checkbox/>)</th> <th>NWTPH-Gx</th> <th>NWTPH-Dx (SG Clean-up <input type="/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	ARCHIVE	% Moisture		
1	GE1-54-0.0-2.0	11/13/24	1150	Soil	5			X	X	X			X							X				X
2	GE1-54-2.0-4.0		1155		5			X	X	X			X							X				X
3	GE1-54-4.0-6.0		1200		5																			X
4	GE1-54-6.0-8.0		1205		5			X	X	X			X								X			X
5	GE1-54-8.0-10.0		1210		5																			X
6	GE1-54-10.0-12.0		1215		5																			X
7	GE1-54-12.0-14.0		1220		5			X	X	X			X								X			X
8	GE1-54-14.0-16.0		1225		5																			X
9	GE1-54-16.0-18.0		1230		5																			X
10	GE1-55-0.0-2.0		1300		5																			X

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Received	<i>Mate Barnwood</i>	GE1	11/14/24	1340	* BTEX, MTBE, EDB, EDC, n-Hexane
Relinquished	<i>Nickolas</i>	OSE	11/14/24	1340	
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date	Data Package: Standard <input type="checkbox"/> Level III <input checked="" type="checkbox"/> Level IV <input type="checkbox"/>		
			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>		



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Chain of Custody

Turnaround Request (in working days) (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (other) _____

Laboratory Number: **11-196**

Company: **GEOENGINEERS INC.**
 Project Number: **05147-024-14**
 Project Name: **POA - GC RIPARIAN ZONE SOIL MW**
 Project Manager: **BRYAN TRACY**
 Sampled by: **NATE SODOMON**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	GE1-SS-2.0-4.0	11.18.24	1305	Soil
12	GE1-SS-4.0-6.0		1310	5
13	GE1-SS-6.0-8.0		1315	5
14	GE1-SS-8.0-10.0		1320	5
15	GE1-SS-10.0-12.0		1325	5
16	GE1-SS-0.0-2.0		1430	5
17	GE1-SS-2.0-4.0		1435	5
18	GE1-SS-4.0-6.0		1440	5
19	GE1-SS-6.0-8.0		1445	5
20	GE1-SS-8.0-10.0		1450	5

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total ROA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
5			X	X	X			X	X					X				X
5																		X
5			X	X	X			X	X					X				X
5			X	X	X			X	X					X				X
5			X	X	X			X	X					X				X
5			X	X	X			X	X					X				X
5			X	X	X			X	X					X				X
5			X	X	X			X	X					X				X
5			X	X	X			X	X					X				X

Signature: *M. R. E.*
 Company: **GEI**
 Date: **11.14.24** Time: **1340**
 Received: *Nicholas Jones* Company: **BSG** Date: **11.14.24** Time: **1340**

Reviewed/Date: _____

Comments/Special Instructions: _____

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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Chain of Custody

Laboratory Number: **11-196**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)

Date Sampled: 11.13.24 Time Sampled: 1500 Matrix: Soil
 (other) _____

Company: **GEOTECHNICAL ENGINEERS INC.**
 Project Number: **05147-024-14**
 Project Name: **POA - GC RIPRAP ZONE SOIL INC.**
 Project Manager: **BRAD TRACY**
 Sampled by: **NATE SOLOMONOV**

Lab ID	Sample Identification
21	GE1-56-12.0-14.0
22	GE1-56-14.0-16.0
23	GE1-56-16.0-18.0
24	GE1-56-18.0-20.0
25	GE1-57-0.0-2.0
26	GE1-57-2.0-4.0
27	GE1-57-4.0-6.0
28	GE1-57-6.0-8.0
29	GE1-57-8.0-10.0
30	GE1-57-10.0-12.0

Company	Date	Time	Number of Containers	Comments/Special Instructions
GE1	11.14.24	1340	5	
OSE	11.14.24	1340	5	

Signature: *[Handwritten Signature]*
 Received: _____
 Relinquished: _____
 Received: _____
 Relinquished: _____
 Received: _____
 Relinquished: _____
 Reviewed/Date: _____

Number of Containers: **5**
 NWTPH-HCID
 NWTPH-Gx/BTEX (8021 8260
 NWTPH-Gx
 NWTPH-Dx (SG Clean-up
 Volatiles 8260
 Halogenated Volatiles 8260
 EDB EPA 8011 (Waters Only)
 Semivolatiles 8270/SIM (with low-level PAHs)
 PAHs 8270/SIM (low-level)
 PCBs 8082
 Organochlorine Pesticides 8081
 Organophosphorus Pesticides 8270/SIM
 Chlorinated Acid Herbicides 8151
 Total RCRA Metals
 Total MTCA Metals
 TCLP Metals
 HEM (oil and grease) 1664
 ARCHIVE
 % Moisture

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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Chain of Custody

Laboratory Number: **11-196**

Company: **GEOTECHNICALS INC.**
Project Number: **05147-024-14**
Project Name: **POA - GC RIPARIAN ZONE SOIL W/L**
Project Manager: **BRYAN TRACY**
Sampled By: **NATE SOLOMON**

Turnaround Request (in working days)
(Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
Date Sampled: 11.13.24 Time Sampled: 0920 Matrix: SOIL
Number of Containers: 5
Other: _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input checkbox="" type="checkbox/>)</th> <th>NWTPH-Gx</th> <th>NWTPH-Dx (SG Clean-up <input type="/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture			
31	GE1-57-12.0-14.0	11.13.24	0920	SOIL	5					X													X	
32	GE1-57-14.0-16.0		0925		5																		X	
33	GE1-57-16.0-18.0		0930		5																		X	
34	GE1-57-18.0-20.0		0935		5																		X	
35	GE1-58-0.0-2.0		0950		5																		X	
36	GE1-58-2.0-4.0		0955		5			X	X	X					X								X	
37	GE1-58-4.0-6.0		1000		5			X	X	X					X								X	
38	GE1-58-6.0-8.0		1005		5																		X	
39	GE1-58-8.0-10.0		1610		5																		X	
40	GE1-58-10.0-12.0		1615		5			X	X	X					X								X	

Signature: *Nate Solomon* Company: **GE1** Date: **11.14.24** Time: **1340** Comments/Special Instructions:

Relinquished Received Relinquished Received Relinquished Received Relinquished Received Relinquished Received Relinquished

Reviewed/Date: _____ Data Package: Standard Level III Level IV Chromatograms with final report Electronic Data Deliverables (EDDs)



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Chain of Custody

Laboratory Number: **11-196**

Company: **GEOTECH ENGINEERS INC.**
 Project Number: **05149-024-14**
 Project Name: **POA - GO BARABAN ZONE SOIL INV.**
 Project Manager: **BRIAN TRACY**
 Sampled by: **MATE SOLOMON**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input checkbox="" type="checkbox/>)</th> <th>NWTPH-Gx</th> <th>NWTPH-Dx (SG Clean-up <input type="/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	ARCHIVE	% Moisture		
41	GEI-SB-12.0-14.0	11.18.24	1020	SOIL	5					*													X	
42	GEI-SB-14.0-15.0		1025		5																		X	
43	GEI-S9-0.0-2.0		1045		5																		X	
44	GEI-S9-2.0-4.0		1050		5			X	X	X			X										X	
45	GEI-S9-4.0-6.0		1055		5			X	X	X			X										X	
46	GEI-S9-6.0-8.0		1105		5																		X	
47	GEI-S9-8.0-10.0		1110		5																		X	
48	GEI-S9-10.0-12.0		1115		5			X	X	X			X										X	
49	GEI-S9-12.0-14.0		1120		5																		X	
50	GEI-S9-14.0-16.0		1125		5																		X	

Signature: *Nick...* Company: **GEI** Date: **11.14.24** Time: **1340**

Received/Date: _____

Reviewed/Date: _____

Comments/Special Instructions:

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
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Chain of Custody

Laboratory Number: **11-196**

Company:

GEOTECHNICAL SERVICES INC.

Project Number:

05147 - 024 - 14

Project Name:

ROA - QC RIPARIAN ZONE SOIL INV.

Project Manager:

BRYAN TRACY

Sampled by:

NATE SLOANON

Lab ID Sample Identification

Lab ID	Sample Identification
51	GE1-60-0.0-2.0
52	GE1-60-2.0-4.0
53	GE1-60-4.0-6.0
54	GE1-60-6.0-8.0
55	GE1-60-8.0-10.0
56	GE1-60-10.0-12.0
57	GE1-60-12.0-14.0
58	GE1-DOP1
59	GE1-DOP2

Signature

Nate Sloanon

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Date Sampled	Time Sampled	Matrix
11.13.24	1540	Soil
	1545	
	1550	
	1555	
	1600	
	1605	
	1610	
	1605	
	1607	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (SG Clean-up <input type="checkbox"/>)	Volatiles 8260 <input checked="" type="checkbox"/>	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	ARCHIVE	% Moisture
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	
5			X		X			X						X				X	

Company

GEI
OSB

Date

11.14.24
11/14/24

Time

1340
1340

Comments/Special Instructions

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)

Received

Reviewed/Date

Received

Reviewed/Date

Sample/Cooler Receipt and Acceptance Checklist

Client: GES
 Client Project Name/Number: 05147-024-14
 OnSite Project Number: 11-196

Initiated by: [Signature]
 Date Initiated: 1/1/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.2 Were the custody seals intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	Temperature:	<u>S, 2, 1</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	<input checked="" type="radio"/> Yes	<input type="radio"/> N/A			
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4
3.2 Were any sample labels missing or illegible?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		1 2 3 4
3.8 Was method 5035A used?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	<input type="radio"/> #	<input type="radio"/> 1	<input type="radio"/> N/A	1 2 3 4

Explain any discrepancies:

2,4) #5) 120S on vials #6) 1210 on vials #7) 1215 on vials #8) 1220 on vials
#9) 1225 on vials #10) 1255 on vials #11) 1305 on vials #17) 1430 on 1 stir
#34) -16.0 -18.0 on 1 stir #39) GEI-54-8.0-10.0 on 1 vial
#40) 1 vial unlabeled #41) GEI-58 on 1 vial
#44) GEI-59-2.0- on 1 stir #57) 1615 on vials

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed