GROUNDWATER MONITORING REPORT
3rd Quarter 2024

September 27, 2024

Site Name: BLT Trucking
Site Address: 8010 S 259th Street, Kent, Washington 98032
Facility/Site No.: 60800
Cleanup Site ID: 16551
VCP Project No.: NW3338

BLT Trucking
8010 South 259th Street
Kent, Washington 98032

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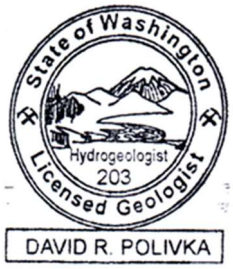

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1.0 INTRODUCTION

ECI Environmental Services Inc. (ECI) has prepared this Groundwater Monitoring Report to present findings following the completion of a groundwater sampling event on August 26, 2024, at 8010 South 259th Street, Kent, Washington (Property/Subject Property) (Figure 1, Appendix A).

This report documents the results of groundwater samples collected from the five (5) installed groundwater monitoring wells (Figure 2, Appendix A). This report details field activities and observations, sampling activities, analytical results, and provides conclusions and recommendations.

As established in WAC 173-340-200, the "Site" means the same as "Facility" and is defined as:

> *"...any area where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, or placed or otherwise come to be located..."*

For this report, the "Site" is defined by the full lateral and vertical extent of petroleum hydrocarbons originating from a former automobile wrecking yard that was present on the Subject Property. Therefore, the contaminants of concern (COCs) at the Site are:

- Diesel-range Organics (DRO),
- Oil-range Organics (ORO),
- Total & Dissolved Arsenic,
- Polychlorinated biphenyls (PCBs) in soil

1.1 Property Description/Location

According to the King County Assessor, the Property consists of a single tax parcel (Number 000660-0045) 65,015 square feet in size, currently zoned Commercial Manufacturing II (CM-2) by the City of Kent and is listed by the King County Assessor's office as being used for light industrial purposes as is the rest of the vicinity. The lot is currently an asphalt paved dispatch, staging, and service yard for BLT Transport LLC that has been improved with one structure used for maintenance and office purposes.

2.0 PHYSICAL SETTING

Geological and hydrogeological conditions can often affect, to some extent, the environmental integrity of a property. Underlying soil and bedrock formations may facilitate or impede the migration of chemical contaminants in groundwater and may even be the source of contaminants such as radon and metals. This section of the report summarizes geologic factors that may affect the Subject Property regarding environmental concerns.

2.1 Geology

The Subject Property is located within the Puget Sound Basin, which is classified as unconsolidated Pleistocene continental glacial drift. The glacial deposits predominantly consist of sand and silt, with varying amounts of gravel and cobbles (United States Geological Survey, 2005). More specifically, according to the Washington State Department Natural Resources Geologic Portal, the Subject Property is part of a meandering river valley characterized by thick fluvial and floodplain deposits of the Green and White Rivers, and numerous small streams. These deposits consist of gravel, sand, silt, with some clay. Locally could contain low-level terrace, marsh, peat, and glacial deposits locally.

The Natural Resources Conservation Service (NRCS) Web Soil Survey describes the soils at the Subject Property as Urban land.

2.2 Hydrogeology

The primary aquifers in the Puget Sound region are typically in glacial sands and gravels overlain by relatively impermeable glacial till deposits, which are present at or near the ground surface. Within these till deposits are localized areas or lenses of water-bearing sands and gravels that may result in a shallow, localized, perched water table. Lateral and vertical migration of shallow groundwater may be impeded by the relatively impermeable nature of the till and by the sometimes-discontinuous nature of the perched water-bearing sands and gravel. In some areas, the hydrogeology is controlled by large gravel deposits that are the result of advance and recessional glacial outwash or non-glacial alluvium deposited by rivers in the region.

Perched and discontinuous zones of shallow groundwater may be seasonally or perennially present, depending on site-specific conditions. Shallow groundwater flow directions fluctuate and tend to follow topographic gradient but are also affected by seasonal high-water tables and variable soil characteristics. Groundwater migration pathways may also follow underground conduits.

According to ECI well logs, the depth to groundwater at the Site ranges from 5 to 10 feet below ground surface (bgs). According to the United States Geological Survey (USGS) Auburn, WA, 2020, 7.5-minute quadrangle topographic map, the Property is in the Green River Valley at an elevation of approximately 40 feet above Mean Sea Level (MSL).

The Property is located between the beginning and end of a significant meander in the Green River which is situated approximately 480 feet to the southwest and 825 feet southeast of the Property and flows in a general north-northwesterly direction into Puget Sound (Elliott Bay) approximately 12.5 miles north-northwest of the Subject Property. State Route 167 is approximately 0.66 miles west of the Subject Property.

3.0 PREVIOUS INVESTIGATIONS / INTERIM ACTIONS

3.1 Preliminary Site Investigation (Paul Siebenaler, February 1995)

On February 12, 1995, Paul Siebenaler conducted a preliminary site investigation at Atomic Auto Wrecking Property. The property at the time was approximately 2 acres which includes the Subject Property. According to Mr. Siebenaler, a property transfer assessment conducted by Enviros identified an area that is described as " heavy stained." The heavily stained area was adjacent to a building referred to as the storage shed located in the south-central portion of the current Subject Property. Mr. Siebenaler noted that the storage shed had engines, gasoline tanks, and transmissions stored on the ground and that the area was heavily stained with petroleum products.

Based on visual observations made at the site, Mr. Siebenaler divided the Property into three areas, 1) the heavily stained area identified in the property transfer assessment, 2) the area near a building known as the woodshed located in the southeastern portion of the current Subject Property, 3) and the rest of the site. It was noted that in Area 1, the top 4 inches were highly saturated with petroleum. The soil 6 inches below the ground surface (bgs) to 1.5 feet bgs also had significant amounts of petroleum but was visually less contaminated than the top 4 inches and the soil at 2 feet bgs did not show signs of significant contamination.

Three grab samples and 4 composite samples were collected in Area 1 ranging in depth from the surface to 2 feet bgs. Two grab Samples were collected from Area 2 at 4-inches and 1-foot bgs, and one sample was collected from a localized stained area in Area 3 in what appears to be the current adjacent parcel to the east.

The samples were analyzed for Hydrocarbon Identification (HCID), Total Petroleum hydrocarbons (TPH) using EPA Method 418.1, TPH- gasoline, and the metals chromium, copper, lead, and zinc. The analytical results revealed that total petroleum hydrocarbons via EPA Method 418.1 was above the MTCA Method A Cleanup Levels in effect at that time (200 mg/kg) in all samples except one sample from Area 1 at a depth of 2.5 feet bgs. The concentrations of TPH were also greater than the current MTCA Method A Cleanup Level of 2,000 mg/kg in all the samples collected at the site except two in Area 1, gasoline, BTEX, lead and chromium were also found in several the samples from Area 1 above the MTCA Method A Cleanup Levels.

Based on the results of the Preliminary Site Investigation, Mr. Siebenaler indicated that the approximate 400 cubic yards of contaminated soil in Area 1 and the approximate 80 cubic yard of contaminated soil in area 2 could be excavated for disposal off-site at a landfill. He also indicated that the soil to a depth of 6 inches in Area 3, the main portion of the site, could be excavated and stockpiled and that doing so would likely mix the soils enough to be below cleanup levels.

3.2 Environmental Restoration Work Plan-Atomic Auto Wrecking (Galloway 1995)

In June 1995, Galloway Environmental Inc. (GEI) prepared an "Environmental Restoration Work Plan" for the Atomic Auto Wrecking Site, which included the current Subject Property. The work plan outlined the scope of work that would be used in the site restoration. The site restoration would include:

- Temporarily stockpiling the "clean" materials on-site to be used as backfill following affected soil removal.
- Excavating the affected soil.
- Transporting approximately 400 cubic yards of the most highly impacted soil to a thermal treatment facility in Tacoma, Washington.
- On-site bioremediation of the remaining affected soils in an on-site engineered bio-treatment cell.
- Backfilling the excavation with approved materials and paving the surface with asphalt.

A figure in the Site Restoration Plan indicated that the entire area of the current Subject Property would be excavated with a soil processing area near the north central portion of the Subject Property and the paved bio-treatment cell along the western Subject Property boundary.

3.3 Phase II Site Assessment (Stemen Environmental, October 1999)

In September 1999, Stemen Environmental Inc. (Stemen) conducted a Phase II Site Assessment on the adjacent parcel to the east of the current Subject Property. The property, then known as the Boyd Investment Properties, was part of the Atomic Auto Wrecking investigations and remedial actions conducted in 1995 and described above.

During the 1999 investigation, Stemen collected eight discreet soil samples from eight selected sampling locations on the property and one groundwater sample. However, none of the samples were collected on the current Subject Property. The soil samples were collected from a depth of 5 to 6 feet bgs with one sample collected at a depth of 3 feet bgs. The groundwater sample was collected at a depth of approximately 9 feet bgs. All the samples were analyzed for diesel-range organics (DRO) and oil-range organics (ORO).

The analytical results of the samples analyzed revealed that DRO and ORO were not detected in the samples. Based on the results of the investigation, Stemen concluded that:

> *"…the past uses of the subject property and the past and/or current uses of adjacent properties have not adversely impacted the environmental integrity of the subject property."*

3.4 No Further Action Letter-Boyd Investment Properties (Ecology, March 2000)

Based on the 1995 Paul Siebenaler preliminary site investigation and the 1999 Stemen Environmental, Inc. Phase II Site Assessment, Ecology issued a No Further Action Determination for the Boyd Investment Properties adjacent to the current Subject Property. Ecology stated:

> *"Based upon the above listed information, Ecology has determined that, at this time, the release of total petroleum hydrocarbons into the soil no longer poses a threat to human health or the environment. Therefore, Ecology is issuing this determination that no further remedial action is necessary at Parcel #09260024000, Boyd Investment Properties…"*

And:

"Ecology's no further action determination is made only with respect to the characterization work identified in the Stemen Environmental, Inc. report listed above, and applies only to the .45-acre area of the property formerly occupied by the wrecking yards office and customer parking lot of the former Atomic Auto Wrecking Yard, located at 1037 South Central, Kent, Washington as identified in the reports. It does not apply to any other release or potential release at the property, any other areas on the property, nor any other properties owned or operated by Boyd Investment Properties."

3.5 Summary File Review-Atomic Auto Wrecking 1037 Central Ave (Aerotech, May 2016)

In January 2016, Aerotech Environmental Consulting Inc. (Aerotech) performed a Phase I Environmental Site Assessment Phase I ESA). That Phase I ESA indicated that:

"The Subject Property was originally part of a 2.0-acre Parcel of land that housed Atomic Auto Wrecking from 1980 through early 1990s. In 1994, Atomic Auto Wrecking reported a release to the Washington State Department of Ecology and subsequently completed an Independent Cleanup. In 2000, the State of Washington Department of Ecology granted the property a No Further Action determination to the 0.45-acre area that did not include the portion of the subject Property, only the land to the east. One of the two options are recommended: 1) Completion of a File Review with State of Washington Department of Ecology which will require approximately ten weeks to complete, or: 2) Perform a Phase II Subsurface Investigation that will require approximately 2 weeks and cost $8,900.

Following the completion of the Phase I Environmental Site Assessment, BLT Transport LLC elected to have Aerotech Environmental Consulting Inc. conduct a File Review with the State of Department of Ecology."

Aerotech indicated that their file review found that:

"…petroleum impacted soils were discovered on the subject Property and east adjoining property. However, remedial activities were only conducted on the east adjoining property and not on the subject Property. No documentation of any completed remedial activities for the subject Property was contained within the State of Washington Department of Ecology Northwest Regional Office records. As such, further investigation is recommended."

3.6 Focused Subsurface Investigation (ECI, May and June 2016)

As a result of the Phase I Environmental Site Assessment completed by Aerotech Environmental in 2015 identifying the Property as having been an automobile wrecking yard, on May 16, 2016, ECI oversaw the advancement of eight borings on the Property to determine if the soil and/or groundwater on and beneath the Property had been impacted. These boring were located after dividing the Property into a grid of eight equal sections. One boring was advanced in each section. One soil sample was collected from each boring at a depth of 2 to 4 feet bgs. In addition, groundwater was encountered at a depth of 7 to 7.5 feet bgs and a sample was collected from each boring. The samples were analyzed for hydrocarbon Identification using the NWTPH-HCID analytical method.

The analytical results of the HCID analyses revealed that four of the soil samples contained ORO contaminants. GRO and DRO were not detected above the laboratory practical quantitation limits (PQLs). These four samples were subsequently analyzed for ORO. ORO was identified at concentrations exceeding the MTCA Method A Cleanup Level in two of the four soil samples. These were in samples from borings B2 and B3.

The analytical results of the groundwater samples revealed the presence of ORO in three of the samples analyzed by NWTPH-HCID. GRO and DRO were not detected above the laboratory PQLs. The samples that contained ORO were subsequently analyzed for ORO using method NWTPH-Dx extended with a silica gel cleanup to remove the effects of natural organic matter and silt in the samples. The analytical results did not report DRO or ORO above the laboratory PQLs.

Based on the analytical results of the soil samples, ECI returned to the Property on June 1, 2016, and excavated eight test pits in the northern portion of the Property to delineate the ORO contamination previously found. Soil samples were collected from a depth of 3 and 6 feet bgs in each test pit.

Ten of the samples were analyzed for DRO and ORO. Of the ten samples analyzed, four detected DRO and/or ORO above the laboratory PQLs but below the MTCA Method A Cleanup Levels.

ECI concluded that the use of the Property as an automobile wrecking yard resulted in the release of oil-range hydrocarbons onto the surface soil in the northern portion of the Property. ECI also indicated that clean surface rock had been brought onto the Property after the automobile wrecking yard was no longer operating, which would explain why the contamination was not observed at the immediate surface.

ECI recommended:

> *"That soil containing concentrations in excess of the MTCA Method A Cleanup Level… be excavated, removed from the Property, and disposed of at an appropriate Subtitle D Landfill."*

3.7 Site Characterization Report-(ECI, July 2016)

After the initial FSI and sometime between June 1, 2016, and June 15 -16, 2016, soil was excavated to a depth of approximately 6 to 7 feet below ground surface (bgs) at the site for a stormwater detention system. The soil was segregated into two stockpiles. The first stockpile (SP1) was the top 2 to 3 feet bgs of clean imported surface rock and soil over the entire stormwater detention system area. This pile was estimated to contain 1,000 cubic yards (1,500 tons) of material and was potentially to be reused on the site.

The second stockpile (SP2) was from a depth of 4 to 6 feet bgs beneath the soil excavated for stockpile SP1. This stockpile was the native soil below the imported fill and was estimated to contain 1,000 cubic yards (1,500 tons) of material and may have contained the ORO contaminated soils observed during ECI's previous investigation.

Following the stockpiling of the excavated soil by the excavation contractor, ECI returned to the site on June 15 and 16, 2016 to sample the stockpiles. ECI collected 10 samples from each stockpile for analysis. In addition, ECI collected 10 soil samples from the sidewalls and base of the northern portion of the excavation near where ORO contamination had previously been observed.

A total of 30 samples were analyzed for DRO and ORO. The analytical results revealed that 24 of the samples had detectable concentrations of DRO and/or ORO. However, only one sample from stockpile SP2 (SP2-9) contained a concentration of ORO above the MTCA Method A Cleanup Level. Based on these results, 15 samples, (five from each stockpile and five from the excavation) were analyzed for PCBs and MTCA 5 metals.

The analytical results from the additional analyses revealed that PCBs were present above the MTCA Method A Industrial Cleanup Level in one of the samples from the northern sidewall of the excavation and that cadmium was present above the MTCA Method A Industrial Cleanup Level in six of the stockpile samples and five of the excavation samples.

ECI recommended further excavation within the stormwater detention system to remove the area with PCB contaminated soil, as well as removal of the area of stockpile SP2 with ORO contaminated soil. This was performed without ECI oversight and placed into a separate stockpile (SP3). In addition, ECI recommended engaging with Ecology on possible cleanup alternatives and closure pathways.

On June 29, 2016, ECI returned to the Property and collected a composite sample from stockpile SP3 for a disposal profile (SP3-Composite). In addition, one sample from the sidewall of the over-excavated PCB area within the stormwater detention system excavation was collected for analysis. The analytical results of the sidewall sample were reported as being below the Method A Industrial Cleanup Levels. The composite sample from stockpile SP3 did not detect concentrations of the contaminants of concern above their respective laboratory PQLs and or above their respective MTCA Method A Industrial Cleanup Levels.

Based on the analytical results of the sample from stockpile SP3, a special waste profile was completed for disposal of the soil in stockpile SP3 at Republic Services Roosevelt Regional Landfill in Klickitat, Washington via their 3rd and Lander transfer station in Seattle, Washington. Copies of disposal receipts obtained by ECI showed that BLT Trucking transported a total of 175.38 tons of contaminated soil to the transfer facility on July 13 and 18, 2016. It should be noted that the disposal receipts were obtained after the completion of ECI's July 2016 Site Characterization Report.

3.8 Stormwater Detention System Installation

Following the excavation, stockpiling, and sampling of potentially contaminated soils and the disposal of the soils in stockpile SP3, the excavation contractor completed excavation of the stormwater detention system, and the stormwater detention system piping was installed and backfilled with pea gravel, and the stockpiled soils consisting of silty sand with gravel. After ECI's investigations, it is estimated that the depth of the stormwater detention system excavation was extended approximately 6 to 8 feet.

Samples of the excavated soil were not collected by the property owner during the excavation and installation of the stormwater detention system. Due to samples not being collected, in March 2021, ECI recommended additional investigations which included the advancement of soil borings and groundwater monitoring in and around the stormwater detention system excavation to confirm that the soils in that area are not contaminated from previous activities on the Subject Property.

3.9 Focused Subsurface Investigation & Groundwater Monitoring (ECI, March-November 2021)

In March 2021, ECI oversaw the advancement of ten soil borings and the installation of five groundwater monitoring wells on the Property near where previous investigations had found contamination above cleanup levels during excavation for a stormwater detention system in 2016. The contaminated soil was reportedly independently remediated in 2016 by the previous owner of the Property through excavation, bioremediation, and off-site disposal. The borings advanced in March 2021 were to confirm that the soils around and beneath the stormwater detention system excavation had been effectively remediated and/or not affected by previous activities on the Property.

A total of 25 soil samples were collected from the borings and 15 were analyzed for COCs. The analytical results revealed that with the exception of lead, total chromium, and arsenic, the contaminants of concern were reported as not being present above their respective laboratory PQLs. Lead, total chromium, and arsenic were reported above the respective laboratory PQLs in every sample analyzed. However, arsenic was the only contaminant reported to exceed the MTCA Method A Cleanup Levels in five of the samples collected from a depth of 15 feet bgs. The concentrations were just above the cleanup level of 20 mg/kg and ranged from 20 mg/kg to 26 mg/kg. Because arsenic was not detected above 6.92 mg/kg in shallow samples during the previous investigations or above the cleanup level in the shallow samples from the March 2021 investigation, it was ECI's opinion that the arsenic found at 15 feet bgs was not a result of activities on the Subject Property.

Between March 2021 and November 2021, ECI conducted four groundwater quarterly sampling events, where samples were collected from the five groundwater monitoring wells installed at the Site. The samples were collected to confirm that the groundwater had not been affected by the contamination previously found on the Property.

The analytical results showed total arsenic to be above its MTCA Method A Cleanup Level throughout the four quarters in samples from one or more monitoring wells. The samples reporting concentrations of total arsenic above the MTCA Method A Cleanup Level for the first through third consecutive groundwater monitoring events were further analyzed for dissolved arsenic. With the exception of the second consecutive groundwater monitoring event, the analytical results for all samples were reported below the laboratory PQL for dissolved arsenic. The remaining COCs were reported below their respective laboratory PQLs or below their respective MTCA Method A Cleanup Levels for each of the monitoring wells (MW1 through MW5).

The analytical results from the second quarter sampling event reported the concentrations of dissolved arsenic above the concentration levels of the total arsenic analytical results. This can occasionally occur due to numerous reasons ranging from sampling and/or laboratory errors to the EPA acknowledged

limitations with the analytical and sample preparation methods. A summary of the groundwater analytical results is presented in Table 2, Appendix B.

Because the root cause for the discrepancy between the total and dissolved arsenic in the samples cannot be determined and the dissolved arsenic analytical results reported during the first and third consecutive groundwater monitoring events conducted on March 30, 2021, and September 23, 2021, reported concentrations below the laboratory PQL for arsenic, ECI did not consider the analytical results for arsenic from second quarter sampling event to be representative of true concentrations of total and/or dissolved arsenic within the groundwater at the Site.

3.10 BLT Trucking: Arsenic in Groundwater at/near the BLT Trucking Site (ECI, November 2022)

During a June 24, 2022, meeting Ecology requested additional information regarding the elevated concentrations of arsenic found in the groundwater on the BLT Trucking Property. Ecology indicated that there were two possible options for addressing the arsenic. The first was to assess if there was enough empirical data to support a statistical analysis then perform a statistical analysis to show that the concentrations found were not statistically significant. The second option was to show that the arsenic was not from the Property and was within the background levels. ECI reviewed the options presented by Ecology and in a letter dated November 14, 2022, responded to Ecology's request.

In the response to Ecology, ECI indicated that based on a review of the Ecology requirements to determine that the analytical results were not statistically significant, and a review of the statistical programs used by both Ecology and EPA, it was ECI's opinion that the statistical analysis was not a straightforward option and would likely require more data. ECI decided to attempt to show that the arsenic was not from the Property and was within the background levels.

ECI's research revealed that the entire region was once agricultural from at least the 1930s to the mid-1960s and contained several cherry orchards. During that period, it was common to use lead-arsenic pesticides. Lead-arsenic pesticide residues have been found in both the soil and groundwater of many agricultural areas around the State of Washington and are likely what has been identified at the BLT site.

ECI found that there were 117 total sites within that 2-mile radius of the BLT Property but that only 11 mentioned having arsenic above the soil and groundwater cleanup levels. One of the sites was the Joseph Simon and Sons site immediately adjacent and potentially upgradient to the BLT Property to the north. The arsenic levels found in the monitoring wells on that site ranged from below the laboratory PQL to 12.4 µg/L. which was in the same range as was found at the BLT Trucking site at the time. The consultant for the Joseph Simon and Sons site concluded that arsenic found at that site was likely from an off-site source.

At Ecology's request, the consultant also researched background levels of arsenic in South King County and the vicinity of the site. The consultant concluded:

> *"Although specific groundwater sample locations do not appear to be in the immediate vicinity of the Joseph Simon and Sons site, the King County reports illustrate that arsenic concentrations above the MTCA Method A cleanup level of 5 µg/L are a common occurrence in the South King County area. The arsenic concentrations detected in groundwater samples collected at the*

Joseph Simon and Sons site appear to be consistent with those presented in the King County reports and appear to be indicative of regional background concentrations."

Based on ECI's research and the information presented for the Joesph Simon & Sons site, it was ECI's opinion that the arsenic that was found in the groundwater at the BLT site is not from the BLT site and is within the range of concentrations that are found regionally.

3.11 Further Action Letter, (Ecology, March 2023)

In a letter dated March 13, 2023, Ecology indicated that "Further Remedial Action" was required at the site. They stated that:

"Contaminated soil (TPH-D + TPH-O, PCBs, cadmium, lead, and arsenic) remains on the Property at concentrations exceeding the MTCA Method A soil cleanup levels for unrestricted land use. The vertical and lateral extents of soil contamination have not been delineated. The source of arsenic contamination has not been investigated or evaluated. The potential for soil contamination off the Property to the north has not been investigated."

Ecology also stated that:

"Contaminated groundwater (arsenic) has been confirmed beneath the Property at concentrations exceeding the MTCA Method A groundwater cleanup level for unrestricted land use. Arsenic exceeding the cleanup level and background level was present in groundwater at multiple of the existing groundwater monitoring wells (MW-1 through MW-5). The extents of the groundwater contamination at the Site have not been delineated and the potential for downgradient off-Property migration has not been assessed."

Ecology requested:

- Additional borings to sample the fill in the excavation area along with the additional borings requested outside the excavation area.
- Additional characterization of Total Petroleum Hydrocarbons for diesel (TPH-D) and oil (TPH-O) and required that TPH-D and TPH-O analytical values be combined, and the total compared to the MTCA Method A Cleanup Level to assess if an exceedance of the cleanup levels have occurred.
- Additional borings and soil samples be collected to determine if contamination has extended to the north off the Property and in a "downgradient" direction.
- That the vertical and lateral extent of arsenic in soil at the Site be further delineated and
- Additional groundwater monitoring wells that are not located within or near the stormwater detention gallery to evaluate the groundwater flow.
- Additional groundwater monitoring wells and groundwater sampling to delineate the extent of arsenic in groundwater at the Site and to determine whether contamination is migrating off the Property."

- That a complete Remedial Investigation and a Feasibility Study (RI/FS) with a disproportionate cost analysis (DCA) be performed.

3.12 Response November 2022-Arsenic in Groundwater BLT Trucking Site (Ecology, May 2023)

In an email dated May 31, 2023, Ecology indicated that they had performed a site wide statistical analysis on the soil and groundwater results from the BST site and indicated:

> "*Based on the findings, we do not think it is necessary to install any additional wells on the Property at this time. It would appear that for both groundwater and soil, the Site may be moving toward a statistical determination, however, that determination cannot be made without additional data."*

Ecology also stated that:

> *"…more arsenic groundwater data is needed, but we believe this can be achieved using the existing wells. The installation of additional monitoring wells is not needed at this time, but we request four quarters of groundwater data be collected form the existing wells…."*

3.13 Remedial Investigation Report (ECI, October 2023)

In July 2023, ECI professionals conducted a remedial investigation to meet the requirements of the MTCA regulations for an RI, to delineate contamination previously identified on the Property, and to fill in the data gaps remaining from the previous investigations.

The investigation consisted of five borings (B19 through B23) to approximately 20 feet bgs in various locations near and in the stormwater detention system. Thirty-eight (38) soil samples were collected of which twenty-four (24) were analyzed for the Site's COCs. Additionally, quarterly groundwater monitoring was also performed and all five of the existing monitoring wells on the Site were sampled.

The results from the investigation revealed PCBs in four soil samples and cadmium in one soil sample. No other contaminants of concern were reported as being above their respective laboratory PQLs or above their respective MTCA Method A Cleanup Levels. PCBs were found above MTCA Method A Cleanup Levels in the three borings along the northern Property boundary at a depth of 2 to 4 feet bgs and at the MTCA Method A Cleanup Level in one sample withing the stormwater detention system at a depth of 8 feet bgs. Cadmium was reported above the MTCA Method A Cleanup Level of 2 mg/kg in one sample collected at a depth of 2 feet bgs in one boring along the northern Property boundary and was not detected above the laboratory PQL in the remaining soil samples. ECI considered this to be an isolated occurrence.

The groundwater analytical results revealed that ORO was detected above the MTCA Method A Cleanup Levels in the sample collected from monitoring well MW4 located in the northeast portion of the stormwater detention system. It was ECI's opinion that this was an anomaly since DRO and ORO have not been detected above the laboratory PQL in any of the previous samples from the well except for one analytical result just above the laboratory PQL and that DRO/ORO has not been detected above the laboratory PQL in any of the other wells at the Site.

Ecology requested that arsenic be analyzed using EPA Method 7010 (Graphite Furnace Atomic Absorption Spectrophotometry [GF-AA]). However, due to the equipment to analyze the arsenic being apparently out for repair, the samples were analyzed at another laboratory using EPA method 6020B (Inductively Coupled Plasma-Mass Spectrometry [ICP-MS]).

As a result, ECI had selected soil samples, and all the water samples reanalyzed using the GF-AA method 7010. The results from the Method 7010 analyses revealed that all the groundwater samples contained arsenic above the MTCA Method A Cleanup Levels for total and dissolved arsenic. This was in contrast to the results from the ICP-MS method which revealed that total arsenic exceeded the MTCA Cleanup Levels in four of the five groundwater samples and that dissolved arsenic exceeded the MTCA Cleanup Level in two of the five groundwater samples.

ECI observed that the temperature of the groundwater and the conductivity were significantly higher than previously observed as well as the elevation of groundwater (9.74 and 10.70 feet below the top of the casing of each well) was the lowest observed compared to historical levels. Based on this, it was ECI's opinion that the arsenic concentrations observed in the groundwater during the July 2023 sampling event was not representative of the overall condition of groundwater at the site and may be outliers when compared to historical and future groundwater sampling events. ECI stated that future quarterly monitoring as specified in the May 2023 Remedial Investigation/Feasibility Study Work Plan would help determine if the July results were outliers.

At the time of the Remedial Investigation groundwater sampling, the groundwater flow direction at the Site appeared to be to the west in the western portion of the Site and to the east in the eastern portion of the Site. This was like what was observed on the adjacent Joseph Simon and Sons Site to the north. However, it should also be noted that the depths to groundwater were within the elevation of the infiltration pipes of the stormwater basin. It is likely that the groundwater levels and flow were affected by the stormwater basin.

Based on the results of this Remedial Investigation, it was ECI's opinion that the soil contamination found on the Subject Property had been adequately characterized and that the soil exposure pathway can be mitigated with maintaining the current asphalt parking area under an environmental covenant.

The results of the groundwater analyses revealed that the groundwater contamination appeared to be near and in the stormwater detention system and may be within the regional background levels and that future groundwater sampling events would provide the information required to determine if the results were within the regional background levels. Given the groundwater appeared to be located near the stormwater detention system, it was ECI's opinion that a "Conditional Point of Compliance" could be established at the Property boundaries.

3.14 First Quarter 2024 Groundwater Monitoring (ECI, February 2024)

On February 2, 2024, groundwater samples were collected from the five (5) monitoring wells (MW1 through MW5) as part of the Ecology requested quarterly sampling to evaluate the groundwater conditions at the Site.

The analytical results revealed a detection of heavy oil (ORO) contamination in monitoring well MW4 at 390 µg/L which was above the laboratory PQLs but below the MTCA Method A Cleanup level for ORO. Each of the samples reported total and dissolved arsenic above MTCA Method A Cleanup level of 5.0 µg/L except for monitoring well MW5 for total arsenic which was below the laboratory PQL of 5 µg/L. Even though MW5 was below the laboratory PQL for total arsenic, dissolved arsenic was reported at 22 µg/L which is above the MTCA Method A Cleanup Level.

Dissolved metals concentrations can occasionally be higher than the total concentrations reported due to numerous reasons ranging from sampling and/or laboratory errors to the EPA acknowledged limitations with the analytical and sample preparation methods. The root cause for the discrepancy between the total and dissolved arsenic in the samples cannot be determined. However, concentrations of dissolved arsenic have been observed in the range found in the sample from Well MW5 in other wells at the site at time.

3.15 Second Quarter 2024 Groundwater Monitoring (ECI, May 2024)

On May 17, 2024, ECI environmental professionals sampled all five (5) groundwater monitoring wells on the Subject Property (MW1 through MW5) as part of the Ecology requested quarterly sampling to evaluate the groundwater conditions at the Site.

The analytical results revealed that monitoring well MW4 contained concentrations of ORO at 630 µg/L prior to the use of a silica gel cleanup procedure on the sample to remove natural organic materials and petroleum hydrocarbon metabolites. After using the silica gel cleanup procedure on the sample, the concentration of ORO was reported at 570 µg/L. Both concentrations are above the MTCA Method A Cleanup level for ORO of 500 µg/L.

Monitoring Well MW3 reported an ORO concentration of 910 µg/L before the use of the silica gel cleanup on the sample. After the use of the silica gel cleanup, the concentration of ORO in the sample from well MW3 was reported as being below the laboratory PQL of 300 µg/L.

The analytical results for arsenic revealed that concentration of total arsenic in the sample from well MW1 was 7.6 µg/L, which is above the MTCA Method A Cleanup Level of 5 µg/L. However, the dissolved arsenic concentration in the sample from well MW1 was below the MTCA Cleanup Level at 2.6 µg/L. Except for the sample from well MW5, both the total and dissolved arsenic concentrations in the samples were above the laboratory PQLs but below the MTCA Method A Cleanup Level. The total and dissolved arsenic concentrations in the sample from well MW5 was reported as being below the laboratory PQL.

Based on the results of this groundwater monitoring event, it is ECI's opinion that the groundwater contamination appears to be near and in the stormwater detention system and the concentrations of arsenic in the groundwater may be within the regional background levels. Future groundwater sampling events will provide the information required to determine if the results are within the regional background levels. Given that groundwater appears to be located near the stormwater detention system, it is ECI's opinion that a "Conditional Point of Compliance" can be established at the Property boundaries.

4.0 REGULATORY COMPLIANCE & CONTAMINANTS OF CONCERN

Regulatory compliance for this project is based on the Washington Administrative Code (WAC), Chapter 173-340 (the Model Toxic Control Act (MTCA) regulations) and the Revised Code of Washington (RCW) Chapter 70A.305, implemented by the Washington State Department of Ecology (Ecology) and the Pollution Liability Insurance Agency (PLIA). Pursuant to Chapter 70A.305 RCW, Ecology has established procedures for developing cleanup levels and requirements for cleanup actions. The rules establishing these standards and requirements were developed by Ecology in consultation with a Science Advisory Board (established under the Act) and with representatives from local government, citizen, environmental, and business groups. The rules were first published in February 1991, with amendments in January 1996, February 2001, October 2007, and August 2023 (effective January 1, 2024).

4.1 Contaminants of Concern (COCs) and Cleanup Levels

Based on previous investigations, ECI and Ecology have determined that the contaminants of concern (COCs) for both soil and groundwater at the Subject Site are:

- Diesel-range Organics (DRO)
- Oil-range Organics (ORO)
- Arsenic
- Polychlorinated biphenyls (PCBs) in soil

For the arsenic in groundwater, both total and dissolved arsenic are contaminants of concern.

Given that the COCs Gasoline-Range Organics (GRO), BTEX, and cPAHs have been analyzed for in previous investigations and the analytical results have been reported either below their respective laboratory Practical Quantitation Limits (PQLs) or below their respective MTCA Method A Cleanup Levels, ECI does not consider GRO, BTEX, or cPAHs to be a concern to the Subject Property.

5.0 GROUNDWATER MONITORING

Because groundwater contamination was observed during the previous investigations conducted at the Site, the RI/FS workplan indicated that ECI would conduct quarterly groundwater monitoring events using the five (5) existing groundwater monitoring wells at the Subject Property as requested in a May 31, 2023, email from Ecology. ECI conducted the first of the quarterly groundwater monitoring events on July 26, 2023.

5.1 Monitoring Well Sampling

On August 26, 2024, groundwater samples were collected from the five (5) monitoring wells (MW1 through MW5), in accordance with American Society of Testing and Materials (ASTM) Guideline D6771-02 "*Standard Practice for Low-Flow Purging and Sampling for Wells and Devices Used for Ground-Water Quality Investigations*".

ECI field staff followed the procedures described below when collecting groundwater samples:

- The cap from each monitoring well at the Site was removed and the groundwater level was allowed to equilibrate to atmospheric pressure for a minimum of 20 minutes.
- The depth to groundwater in each monitoring well at the Site was measured relative to the top of the well casing using an electronic water-level meter and or interface probe.
- Each monitoring well was then purged at a low-flow rate (100-300 milliliters per minute) using a peristaltic pump and new polyethylene tubing. "Field parameters" of temperature, pH, turbidity, dissolved oxygen (DO), oxygen reduction potential (ORP), and specific conductivity were monitored during purging using a water quality meter and a flow-through cell to determine when these parameters stabilized. The groundwater sampling documentation is presented in Appendix C.

Samples were collected in new laboratory-provided analyte-specific sample containers and assigned a unique sample ID. The samples were placed in a climate-controlled container and maintained at or below four degrees (4°) Celsius until delivered to the analytical laboratory, Libby Environmental of Olympia, Washington, under industry standard chain of custody protocol. The samples for dissolved arsenic were field filtered through an inline 0.45-micron filter using clean filter at each well.

5.2 Analytical Results

On August 26, 2024, groundwater samples were collected from the five existing monitoring wells (MW1 through MW5) located on the property and submitted to Libby Environmental of Olympia, Washington and analyzed for the site-specific COCs. The samples were analyzed for contaminants of concern using Method NWTPH-Dx/Dx for DRO and ORO, Method NWTPH-Gx for GRO.

Although Ecology requested that arsenic be analyzed using EPA Method 7010 (Graphite Furnace Atomic Absorption Spectrophotometry [GF-AA]), the samples were analyzed using EPA Method 6020B (Inductively Coupled Plasma-Mass Spectrometry [ICP-MS]). The GF-AA instrument for Method 7010 at Libby Environmental is down and they had to subcontract the samples to another laboratory.

We have been told that EPA Method 7010 is outdated and has difficulty meeting some of the detection levels required by MTCA and other regulations and that there are not any labs other than Libby who are accredited by Ecology for Method 7010.

The analytical results revealed that DRO was present above the MTCA Method A Cleanup Level in the sample from well MW-2 and that ORO was present above the MTCA Method A Cleanup Level in wells MW-3 and MW-4. The results also revealed that ORO was present below the MTCA Method A Cleanup Level for ORO in wells MW-2 and MW-5.

The samples from monitoring wells MW2, MW3 and MW4 were reanalyzed for DRO and ORO using a silica gel cleanup procedure that removes naturally occurring organic matter and petroleum hydrocarbon metabolites. During purging of the wells, it was noted that there was a sulfur odor to the water as well as a low dissolved oxygen content. This indicates that there is organic material decomposing in an anerobic environment.

The analytical results using the silica gel cleanup reported the samples from MW2, MW3 and MW4 as being below the laboratory PQL for DRO and ORO which is below the MTCA Method A Cleanup Level.

Except for the samples from wells MW4, each of the samples reported total arsenic above the laboratory PQL and below the MTCA Method A Cleanup Level. The sample from well MW4 was reported with total arsenic at 7.40 µg/L which is above the MTCA Method A Cleanup Level of 5 µg/L.

Dissolved arsenic was reported above the laboratory PQL and below the MTCA Method A Cleanup Level in the samples from wells MW1, MW2, MW3 and MW5. The sample from well MW4 reported dissolved arsenic above the MTCA Method A Cleanup level at 7.46 µg/L.

A summary of the laboratory analytical results for this sampling event is provided in the table below. A summary of the analytical results for each of the monitoring well sampling events is provided in Table 2, Appendix B. The laboratory data sheets are presented in Appendix D.

Table 1: Groundwater Analytical Results

Sample Name	Date Sampled	Petroleum Hydrocarbons					Metals	
		Gasoline-range Organic	Diesel-range Organic	Oil-range Organic	Diesel-range Organic w/ Silica Gel	Oil-range Organic w/ Silica Gel	Total Arsenic (6020B)	Dissolved Arsenic (6020B)
		Sample Reported in Micrograms per Liter (µg/L)						
MW1	5/17/2024	<100	<170	<340	--	--	**4.56**	**3.92**
MW2	5/17/2024	<100	**1,000**	**460**	<170	<340	**2.46**	**2.31**
MW3	5/17/2024	<100	<170	**880**	<170	<340	**1.70**	**1.50**
MW4	5/17/2024	<100	<170	**790**	<170	<340	**7.40**	**7.46**
MW5	5/17/2024	<100	<160	**440**	--	--	**0.915**	**1.0**
Laboratory PQL[1]		100	160/170	Varies	170	340	0.5	0.5
Cleanup Levels		800/1,000	500	500	500	500	5	5

Red: Sample Report >CUL (Cleanup Level)
Bold: Sample Report >PQL (Practical Qualitative Limit)

5.3 Site Groundwater Characteristics

During the sampling event, groundwater was encountered at depths between 8.74 feet below ground surface (bgs) and 9.95 feet bgs (elevations between 38.67 feet Above Mean Sea Level (AMSL) to 40.11 feet AMSL) in the wells located on the Site (Table 3, Appendix B).

A survey of the installed monitoring wells was previously completed to locate the wells both vertically and horizontally. This data was used to prepare a groundwater contour map showing flow direction (Figure 3,

[1] PQL=Practical Quantitative Limits

Appendix A). The groundwater flow direction appeared to be to the northwest in the western portion of the Site with a very shallow gradient of 0.008 feet/foot (ft/ft) and to the northeast and east in the eastern portion of the Site with a steep gradient between wells MW3 and MW 4 of 0.049 ft/ft. (Figure 3, Appendix A). The groundwater divide observed is similar to what was observed on the adjacent Joseph Simon and Sons site to the north and in the May 2024 and July 2023 sampling events. It should also be noted that the depths to groundwater are within the elevation of the infiltration pipes of the stormwater basin. It is likely that the groundwater levels and flow are affected by the stormwater basin.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

On August 26, 2024, ECI environmental professionals sampled all five (5) groundwater monitoring wells on the Subject Property (MW1 through MW5). Five (5) groundwater samples were collected during the August 2024 investigation.

The analytical results revealed that DRO was present above the MTCA Method A Cleanup Level in the sample from well MW-2 and that ORO was present above the MTCA Method A Cleanup Level in wells MW-3 and MW-4. The results also revealed that ORO was present below the MTCA Method A Cleanup Level for ORO in wells MW-2 and MW-5

The samples from monitoring wells MW2, MW3 and MW4 were reanalyzed for DRO and ORO using a silica gel cleanup procedure that removes naturally occurring organic matter and petroleum hydrocarbon metabolites. During purging of the wells, it was noted that there was a sulfur odor to the water as well as a low dissolved oxygen content. This indicates that there is organic material decomposing in an anerobic environment.

The analytical results using the silica gel cleanup reported the sample from MW2, MW3 and MW4 as being below the laboratory PQL for DRO and ORO which is below the MTCA Method A Cleanup Level.

Except for the samples from wells MW4, each of the samples reported total arsenic above the laboratory PQL and below the MTCA Method A Cleanup Level. The sample from well MW4 was reported with total arsenic at 7.40 µg/L which is above the MTCA Method A Cleanup Level of 5 µg/L.

Dissolved arsenic was reported above the laboratory PQL and below the MTCA Method A Cleanup Level in the samples from wells MW1, MW2, MW3 and MW5. The sample from well MW4 reported dissolved arsenic above the MTCA Method A Cleanup level at 7.46 µg/L.

Based on the results of this groundwater monitoring event, it is ECI's opinion that the groundwater contamination appears to be near and in the stormwater detention system and the concentrations of arsenic in the groundwater may be within the regional background levels. Future groundwater sampling events will provide the information required to determine if the results are within the regional background levels. Given that groundwater appears to be located near the stormwater detention system, it is ECI's opinion that a "Conditional Point of Compliance" can be established at the Property boundaries.

6.2 Recommendations

It is ECI's opinion that groundwater sampling should continue as directed by the May 2023 Further Action opinion from the Department of Ecology until Ecology is satisfied that we can cease the monitoring. This report should be submitted to the Washington State Department of Ecology for review and an opinion under the Voluntary Cleanup Program. The objective is the receipt of a "*No Further Action*" (NFA) determination with an Environmental Covenant.

7.0 REPORT LIMITATIONS AND GUIDELINES FOR USE

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology, and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. ECI Environmental Services Inc. (ECI) includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with ECI if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or Site.

7.1 Use of this Report by Others

This report by ECI was prepared for the exclusive use of Mr. Preet Chohan/BLT Trucking (Client) and/or his designated parties. This report may be provided to regulatory agencies for review if requested or required. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide ECI with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule, and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted environmental practices in this area at the time this report was prepared.

This report has been prepared for subsurface investigation activities at the Subject Property. ECI considered a number of unique, project-specific factors when establishing the scope of services for this project and report. No one except our Client should rely on this environmental report without first conferring with ECI. This report should not be applied for any purpose or project except the one originally contemplated.

Unless ECI specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important site changes were made.

If important changes are made after the date of this report, ECI should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

7.2 Uncertainty May Remain after Completion of Site Investigation and Remedial Activities

The investigation and remediation activities completed in a portion of a site cannot wholly eliminate uncertainty regarding the potential for contamination in connection with the entire property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from the locations sampled. It is always possible that contamination exists in areas that were not explored, sampled, or analyzed.

7.3 Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the Site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability, or groundwater fluctuations. Always contact ECI before applying this report to determine if it is still applicable.

7.4 Soil and Groundwater End Use

The cleanup levels referenced in this report are Site- and situation-specific and could change with time due to regulatory or Site changes. The cleanup levels may not be applicable for other sites or for other on-site uses of the affected media (soil and/or groundwater).

Note that hazardous substances may be present in some of the Site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. Because these cleanup levels can change, ECI should be contacted to evaluate the potential for associated environmental liabilities prior to the export of soil or groundwater from the Subject Site or reuse of the affected media on the Site. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the Subject Site to another location or its reuse on the Site in instances that we were not aware of or could not control.

7.5 Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from the locations sampled at the Site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. ECI reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the Site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

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Sample Chain of Custody

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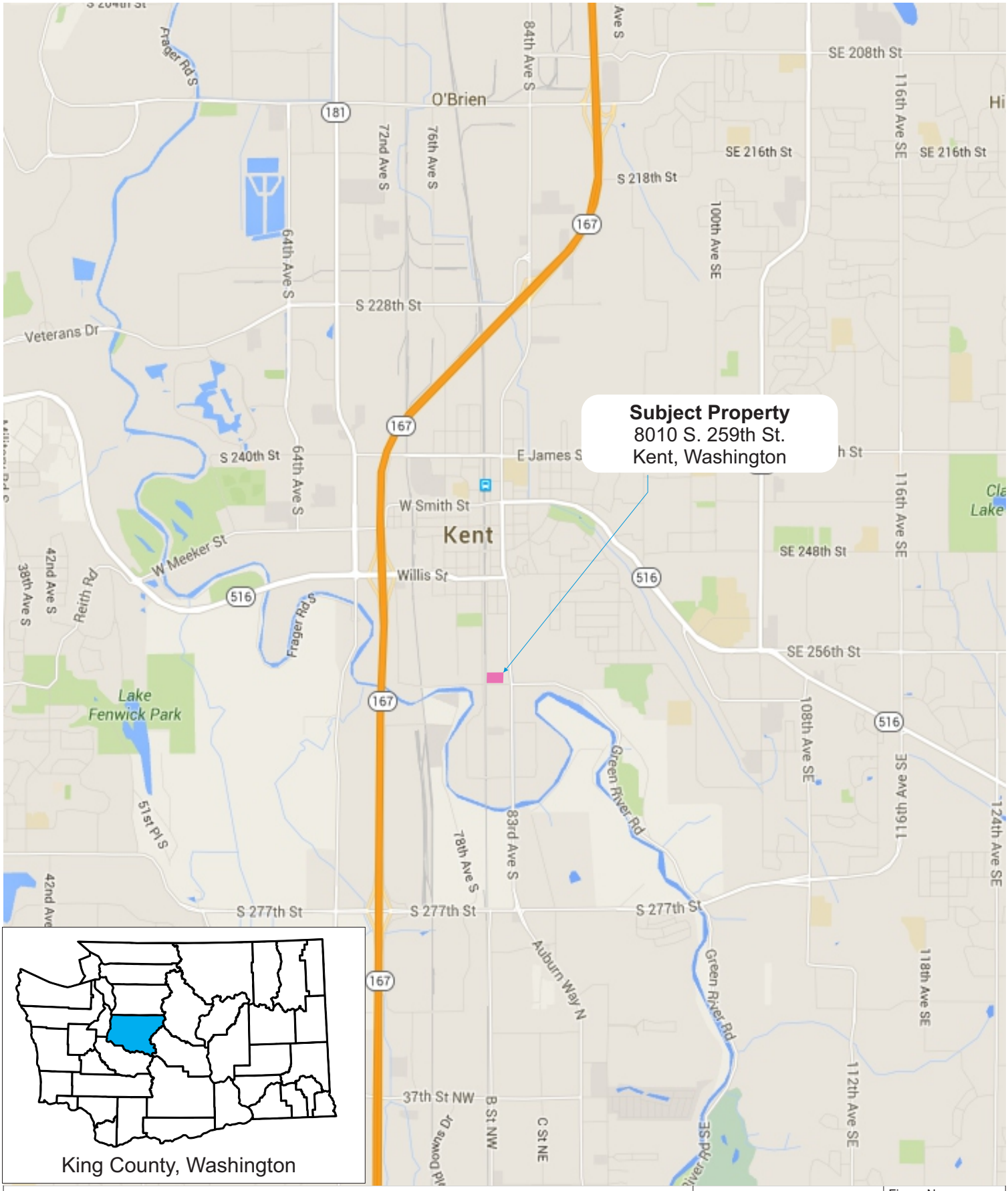
Figure 1: Site Vicinity Map

Figure 2: Groundwater Analytical Map

Figure 3: Groundwater Contour Map



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Not To Scale

Site Vicinity Map
Groundwater Monitoring Report Q3 2024
8010 South 259th Street
Kent, Washington

Date:	September 20, 2023
Completed By:	C.Long
Reviewed By.:	S.Spencer
Version:	ECI-001
Project No.:	0611-01-09

Figure No.: 01

Sheet 01 of 03

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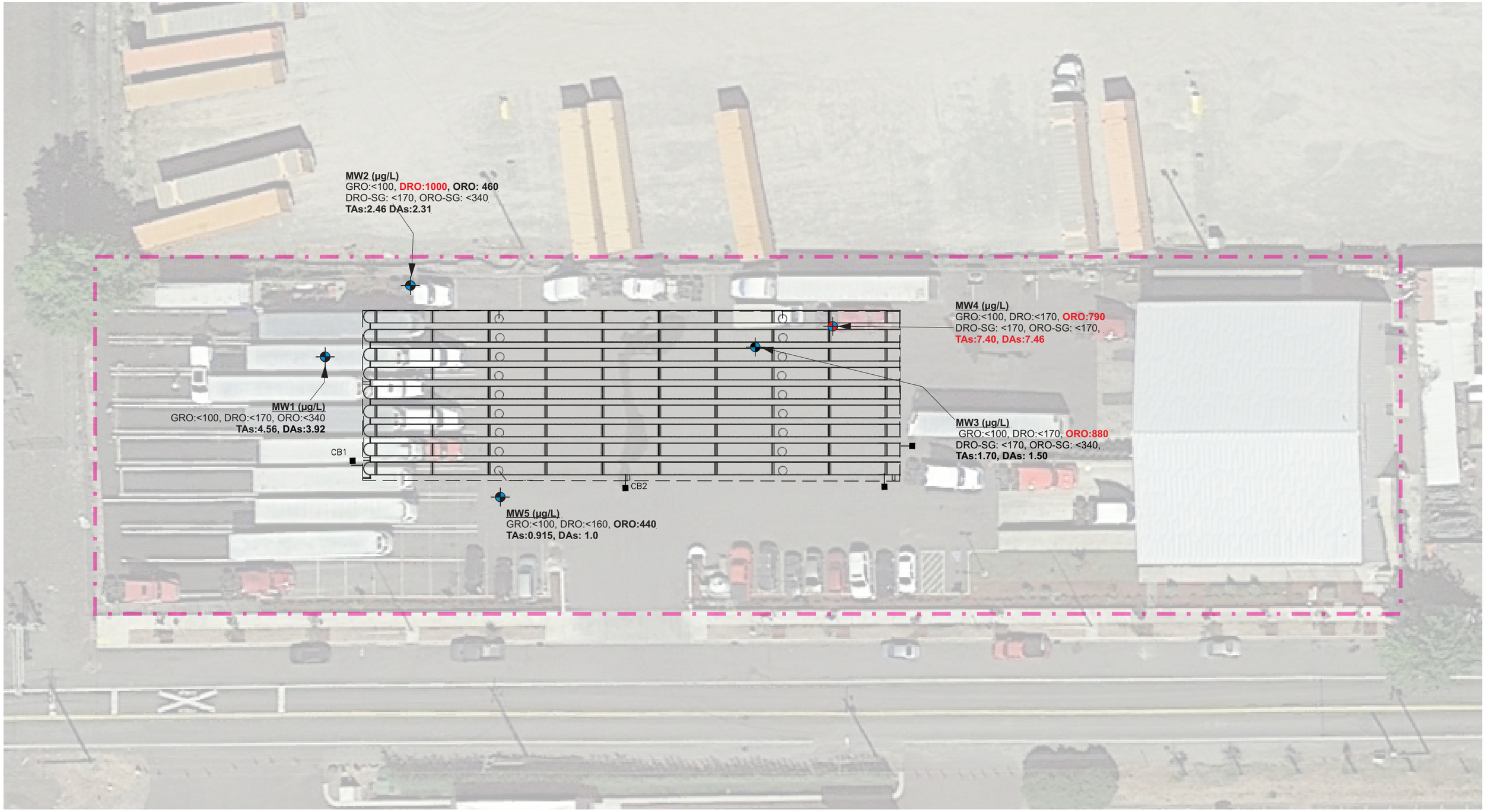
Offices in: Anchorage | Tacoma | Portland



N

0 15 30 60

Approximate Scale in Feet

Explanation

- Monitoring Well < MTCA CUL's
- Monitoring Well > MTCA CUL's

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
ORO-SG Oil Range Organics w/ Silica Gel Clean-up
Tas: Total Arsenic
DAs: Dissolved Arsenic

Groundwater Analytical Map
Quarterly Groundwater Monitoring Report Q3 2024
8010 South 259th Street
Kent, Washington

Date:	September 20, 2024
Completed By:	C.Long
Reviewed By.:	S.Spencer
Version:	ECI-001
Project No.:	0611-01-09

Figure No.: 02
Sheet 02 of 03

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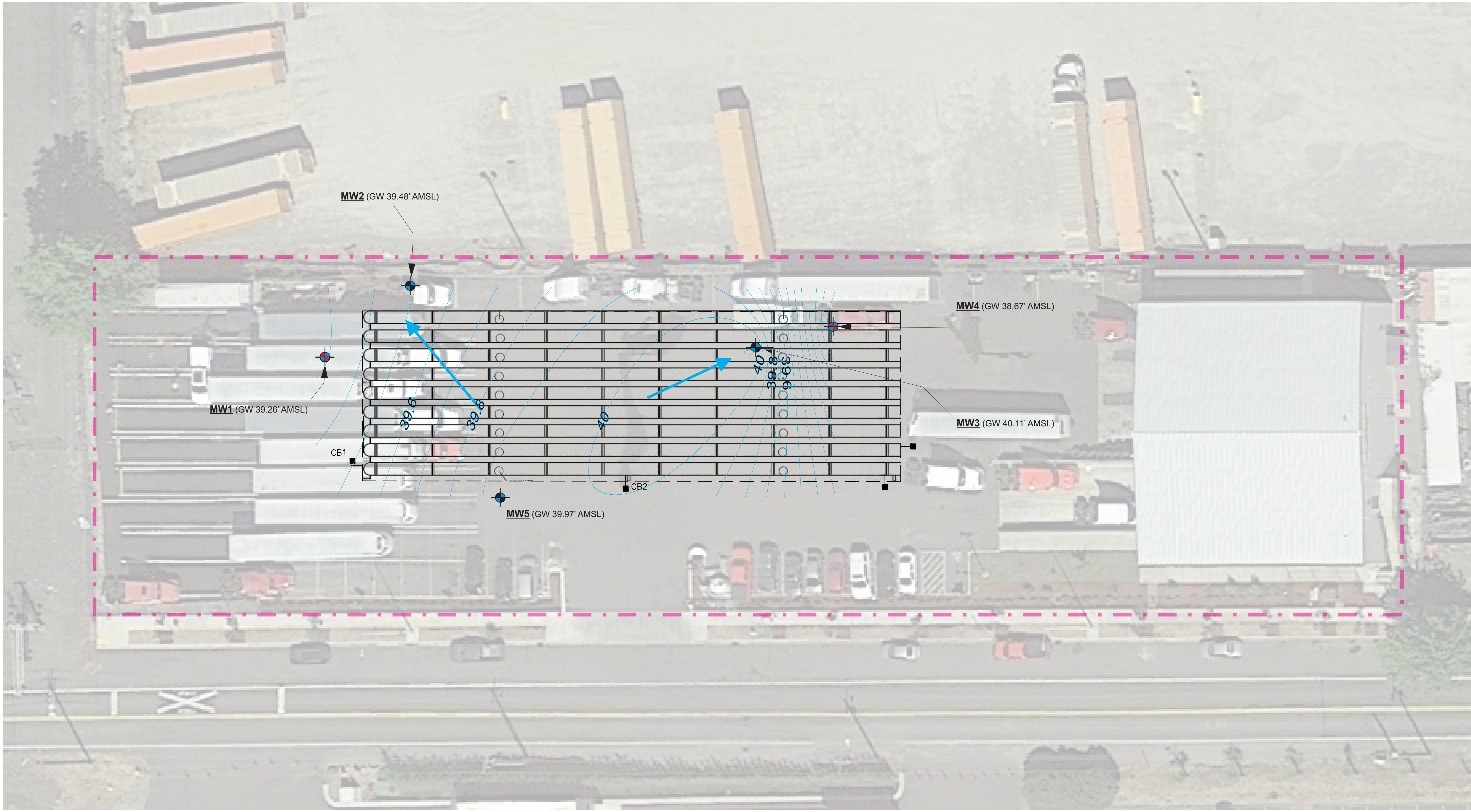

Explanation

- Monitoring Well < MTCA CUL's
- Monitoring Well > MTCA CUL's

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TAs: Total Arsenic
DAs: Dissolved Arsenic

0 15 30 60
Approximate Scale in Feet

N

Groundwater Contour Map
Quarterly Groundwater Monitoring Report Q3 2024
8010 South 259th Street
Kent, Washington

Date:	September 20, 2024
Completed By:	C.Long
Reviewed By.:	S.Spencer
Version:	ECI-001
Project No.:	0611-01-09

Figure No.:
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Appendix B: Project Tables

Table 2: Summary of Monitoring Well Analytical Results

Table 3: Summary of Groundwater Elevations

Table 2: Summary of Groundwater Monitoring Analytical Results
8010 South 259th Street, Kent, Washington
September 27, 2024

Sample Number	Date Sampled	Total Petroleum Hydrocarbons (µg/l)					Select Volatile Organic Constituents (µg/l)				Metals (µg/l)							PCBs
											EPA Method 7010 (AAGF)		EPA Method 6020B (ICP/MS)					
		Gasoline	Diesel	Oil	Diesel with Silica Gel	Oil with Silica Gel	Benzene	Ethyl benzene	Toluene	Xylenes	Total Arsenic	Dissolved Arsenic	Total Arsenic	Dissolved Arsenic	Cadmium	Chromium	Lead	
Monitoring Well 1 (MW1)																		
MW1	3/30/2021	<100	<200	<400	--	--	<1	<1	<2	<2	6.4	<3.0	--	--	<0.5	<5	<5	<0.02
	6/15/2021	<100	<200	<400	--	--	<1	<1	<2	<2	5.9	18	--	--	<0.5	<5	<5	<0.02
	9/23/2021	<100	<200	<400	--	--	<1	<1	<2	<2	3.1	--	--	--	<0.5	<5	<5	<0.02
	11/17/2021	<100	<200	<400	--	--	<1	<1	<2	<2	6.5	--	--	--	<0.5	<5	<5	<0.02
	7/26/2023	<200	<500	<500	--	--	--	--	--	--	6.7	5.6	505*	3.27	--	--	--	--
	2/2/2024	<200	<500	<500	--	--	--	--	--	--	11.0	33.0	--	--	--	--	--	--
	5/17/2024	<200	<200	<400	--	--	--	--	--	--	--	--	7.6	2.6	--	--	--	--
	8/26/2024	<100	<170	<340	--	--	--	--	--	--	--	--	4.56	3.92	--	--	--	--
Monitoring Well 2 (MW2)																		
MW2	3/30/2021	<100	<200	<400	--	--	<1	<1	<2	<2	6.9	<3.0	--	--	<0.5	<5	<5	<0.02
	6/15/2021	<100	<200	<400	--	--	<1	<1	<2	<2	<3.0	--	--	--	<0.5	<5	<5	<0.02
	9/23/2021	<100	<200	<400	--	--	<1	<1	<2	<2	<3.0	--	--	--	<0.5	<5	<5	<0.02
	11/17/2021	<100	<200	<400	--	--	<1	<1	<2	<2	3.3	--	--	--	<0.5	<5	<5	<0.02
	7/26/2023	<200	<500	<500	--	--	--	--	--	--	7.3	5.6	5.31	3.40	--	--	--	--
	2/2/2024	<200	<500	<500	--	--	--	--	--	--	7.2	18	--	--	--	--	--	--
	5/17/2024	<200	<200	<400	--	--	--	--	--	--	--	--	1.0	1.1	--	--	--	--
	8/26/2024	<100	1000	460	<170	<340	--	--	--	--	--	--	2.46	2.31	--	--	--	--
Monitoring Well 3 (MW3)																		
MW3	3/30/2021	<100	<200	<400	--	--	<1	<1	<2	<2	3.4	--	--	--	<0.5	<5	<5	<0.02
	6/15/2021	<100	<200	<400	--	--	<1	<1	<2	<2	6.7	9.1	--	--	<0.5	<5	<5	<0.02
	9/23/2021	<100	<200	<400	--	--	<1	<1	<2	<2	<3.0	--	--	--	<0.5	<5	<5	<0.02
	11/17/2021	<100	<200	<400	--	--	<1	<1	<2	<2	<3.0	--	--	--	<0.5	<5	<5	<0.02
	7/26/2023	<200	<500	<500	--	--	--	--	--	--	64	7.90	5.81	5.07	--	--	--	--
	2/2/2024	<200	<500	<500	--	--	--	--	--	--	13	26	--	--	--	--	--	--
	5/17/2024	<200	<200	910	--	<330	--	--	--	--	--	--	2.1	2.0	--	--	--	--
	8/26/2024	<100	<170	880	<170	<340	--	--	--	--	--	--	1.70	1.50	--	--	--	--
Monitoring Well 4 (MW4)																		
MW4	3/30/2021	<100	<200	<400	--	--	<1	<1	<2	<2	<3.0	--	--	--	<0.5	<5	<5	<0.02
	6/15/2021	<100	<200	<400	--	--	<1	<1	<2	<2	4.30	--	--	--	<0.5	<5	<5	<0.02
	9/23/2021	<100	<200	460	--	--	<1	<1	<2	<2	7.40	<3.0	--	--	<0.5	<5	<5	<0.02
	11/17/2021	<100	<200	<400	--	--	<1	<1	<2	<2	19	--	--	--	<0.5	<5	<5	<0.02
	7/26/2023	<200	<500	1,500	--	--	--	--	--	--	64	12.00	6.79	6.86	--	--	--	--
	2/2/2024	<200	<500	390	--	--	--	--	--	--	13	34	--	--	--	--	--	--
	5/17/2024	--	<160	630	--	570	--	--	--	--	--	--	4.7	4.1	--	--	--	--
	8/26/2024	<100	<170	790	<170	<350	--	--	--	--	--	--	7.40	7.46	--	--	--	--

Table 2: Summary of Groundwater Monitoring Analytical Results
8010 South 259th Street, Kent, Washington
September 27, 2024

Sample Number	Date Sampled	Total Petroleum Hydrocarbons (µg/l)					Select Volatile Organic Constituents (µg/l)				Metals (µg/l)							PCBs
											EPA Method 7010 (AAGF)		EPA Method 6020B (ICP/MS)					
		Gasoline	Diesel	Oil	Diesel with Silica Gel	Oil with Silica Gel	Benzene	Ethyl benzene	Toluene	Xylenes	Total Arsenic	Dissolved Arsenic	Total Arsenic	Dissolved Arsenic	Cadmium	Chromium	Lead	
Monitoring Well 5 (MW5)																		
MW5	3/30/2021	<100	<200	<400	--	--	<1	<1	<2	<2	**4.3**	--	--	--	<0.5	<5	<5	<0.02
	6/15/2021	<100	<200	<400	--	--	<1	<1	<2	<2	**17**	**23**	--	--	<0.5	<5	<5	<0.02
	9/23/2021	<100	<200	<400	--	--	<1	<1	<2	<2	<3.0	--	--	--	<0.5	<5	<5	<0.02
	11/17/2021	<100	<200	<400	--	--	<1	<1	<2	<2	<3.0	--	--	--	<0.5	<5	<5	<0.02
	7/26/2023	<200	<500	<500	--	--	--	--	--	--	**44**	**6.20**	**3.21**	**1.03**	--	--	--	--
	2/2/2024	<200	<500	<500	--	--	--	--	--	--	<5.0	**22**	--	--	--	--	--	--
	5/17/2024	<200	<200	<400	--	--	--	--	--	--	--	--	<1.0	<1.0	--	--	--	--
	8/26/2024	<100	<160	**440**	--	--	--	--	--	--	--	--	**0.915**	**1**	--	--	--	--
Laboratory Reporting Limit		100	Varies (160/200/500)	400	170	330	1	1	2	2	1/3/5	3	1	1	0.5	5	5	0.02
Ecology MTCA Method A Cleanup Levels		800/1,000[1]	500	500	500	500	5	700	1,000	1,000	5		5		5	50	15	0.1

Notes:
(µg/l) = micrograms per liter
-- Not analyzed for constituent
< Not detected above the laboratory reporting limit
Red Bold and Shaded indicates the detected concentration exceeds Ecology MTCA Method A cleanup level
Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels
[1] Gasoline-Range Organics in groundwater: Gasoline mixtures without benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture
* Lab reported the sample was extremely silty

Table 3: Summary of Groundwater Elevations
8010 South 259th Street, Kent, Washington
September 27, 2024

Well	Elevation of TOC	Elevation Ground Surface	Latitude/Longitude		Date of Measurement	Depth to Water (feet)	Groundwater Elevation (feet)	Change in Elevation (feet)
			Latitude	Longitude				
MW1	48.61	48.81	47.370435	-122.232376	03/30/21	7.08	41.53	--
					06/15/21	8.14	40.47	1.06
					09/23/21	9.61	39.00	1.47
					11/17/21	5.74	42.87	-3.87
					07/26/23	10.25	38.36	4.51
					02/02/24	6.40	42.21	3.85
					05/17/24	8.22	40.39	-1.82
					08/26/24	9.35	39.26	-1.13
MW2	48.86	48.33	47.370499	-122.232244	03/30/21	7.43	41.43	--
					06/15/21	8.41	40.45	0.98
					09/23/21	9.65	39.21	1.24
					11/17/21	6.77	42.09	-2.88
					07/26/23	10.43	38.43	3.66
					02/02/24	6.97	41.89	3.46
					05/17/24	8.52	40.34	-1.55
					08/26/24	9.38	39.48	-0.86
MW3	48.85	48.60	47.370440	-122.231744	03/30/21	7.35	41.50	--
					06/15/21	8.04	40.81	0.69
					09/23/21	9.03	39.82	0.99
					11/17/21	6.94	41.91	-2.09
					07/26/23	9.74	39.11	2.80
					02/02/24	7.60	41.25	2.14
					05/17/24	8.35	40.50	-0.75
					08/26/24	8.74	40.11	-0.39
MW4	48.62	48.93	47.370461	-122.231631	03/30/21	7.50	41.12	--
					06/15/21	8.50	40.12	1.00
					09/23/21	10.30	38.32	1.80
					11/17/21	7.68	40.94	-2.62
					07/26/23	10.7	37.92	3.02
					02/02/24	7.50	41.12	3.20
					05/17/24	8.74	39.88	-1.24
					08/26/24	9.95	38.67	-1.21
MW5	49.00	49.45	47.370296	-122.232105	03/30/21	7.41	41.59	--
					06/15/21	8.20	40.80	0.79
					09/23/21	9.40	39.60	1.20
					11/17/21	6.99	42.01	-2.41
					07/26/23	10.06	38.94	3.07
					02/02/24	7.15	41.85	2.91
					05/17/24	8.43	40.57	-1.28
					08/26/24	9.03	39.97	-0.60

Notes:
TOC = Top of casing elevation relative to assigned benchmark.
-- = Not measured, not available, or not applicable

Appendix C: Project Documentation

Monitoring Well Sampling Logs

MONITORING WELL SAMPLING LOG

Date: 8/26/2024

Project Name: BLT Q3 GWM	Project No.: 0611-01-09-02	Well No.: MW1
Field Personnel: CZL	Static Water Level: 9.35	
Water Level Measurement Method: E-tape		
Time Start Purge: 1210	Time End Purge: 1220	Time Sampled: 1230
Measuring Point Description: TOC-N		
Purge Method: Low Flow	Purge Depth: 1' below water	

Well Volume Calculation **(Fill in before purging)**	Total Depth (ft)	Depth to Water (ft)	Casing Diameter (in)	Water Column (ft)	Multiplier (1inch=0.0408g/ft; 2inch=0.1632g/ft)	Casing Volume (gal)
	13.9	9.35	1	4.55	0.0408	0.19
	Notes:					

Time	1215	1220				
Depth to Water (ft)	12.43	13.90				
Volume Purged (g)	0.25	0.50				
pH (0.1)	6.43	6.40				
Temperature C. (3%)	17.80	17.80				
Conductivity uS/cm (3%)	568	575				
Turbidity (10%)	65	56				
Dissolved Oxygen (0.3)	0.89	0.97				
ORP	11.0	9.1				
Color	Clear	Clear				
Odor/Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen				

Comments: Well purged dry at 1220 very poor recharge. Allowed to recharge for 10 minutes prior to collecting samples.

Recovery %: 100 Depth to Water at Sampling (ft): ~13.00 Note(s):

Sampling / Field Equipment (Manufacture / Model / Last Calibration): Aquaread / 2000 / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____/_____/ _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____/_____/ _____

Sample No.	Sample Quantity	Container Type 40 mL VOA/500 mL Amber / 1 L Amber / 250 mL Poly	Preservative / Field Filtered (FF)	Analysis Request	Visual Observation (Clear, Cloudy, Silty, Etc.)
MW1-082624	1	(2) 500 mL Ambers	N/A	Multi	Clear
		(2) 250 mL Polys	HNO_3, 1-FF 0.45micron		
		(4) 40 mL VOAs	HCl		

Total Discharge (gal):1	Disposal Method: Drum Onsite	Drum Designation(s)/Volume: IDW-W

WELL HEAD CONDITIONS CHECKLIST (Circle YES or NO -- if NO, add comments)

Well Security Devices OK (Bollards, Christy Lid, Casing Lid and Lock): YES / N O Well Casing: YES / NO

Inside of Well Head and Outer Casing Dry: YES / NO

Comments:

eci Environmental Services

MONITORING WELL SAMPLING LOG

Date: 8/26/2024

Project Name: BLT Q3 GWM	Project No.: 0611-01-09-02	Well No.: MW2
Field Personnel: CZL	Static Water Level: 9.38	
Water Level Measurement Method: E-tape		
Time Start Purge: 1305	Time End Purge: 1320	Time Sampled:1325
Measuring Point Description: TOC-N		
Purge Method: Low Flow	Purge Depth: 1' below water	

Well Volume Calculation **(Fill in before purging)**	Total Depth (ft)	Depth to Water (ft)	Casing Diameter (in)	Water Column (ft)	Multiplier (1inch=0.0408g/ft; 2inch=0.1632g/ft)	Casing Volume (gal)
	14.38	9.38	1	5	0.0408	0.2
	Notes:					

Time	1310	1315	1320			
Depth to Water (ft)	9.94	9.94	9.94			
Volume Purged (g)	0.25	0.50	0.75			
pH (0.1)	5.97	5.97	5.97			
Temperature C. (3%)	17.60	17.20	17.20			
Conductivity uS/cm (3%)	1420	1408	1384			
Turbidity (10%)	28.2	18.6	19.5			
Dissolved Oxygen (0.3)	0.20	0.10	0.11			
ORP	37.2	29.3	26.1			
Color	Clear	Clear	Clear			
Odor/Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen			

Comments:

Recovery %: 100 Depth to Water at Sampling (ft): ~10.90 Note(s):

Sampling / Field Equipment (Manufacture / Model / Last Calibration): Aquaread / 2000 / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sample No.	Sample Quantity	Container Type 40 mL VOA/500 mL Amber / 1 L Amber / 250 mL Poly	Preservative / Field Filtered (FF)	Analysis Request	Visual Observation (Clear, Cloudy, Silty, Etc.)
MW2-082624	1	(2) 500 mL Ambers	N/A	HCID, Total and Diss. As.	Clear
		(2) 250 mL Polys	HNO_3, 1-FF 0.45micron		
		(4) 40 mL VOAs	HCl		

Total Discharge (gal):1 Disposal Method: Drum Onsite Drum Designation(s)/Volume: IDW-W

WELL HEAD CONDITIONS CHECKLIST (Circle YES or NO -- if NO, add comments)

Well Security Devices OK (Bollards, Christy Lid, Casing Lid and Lock): YES / N O Well Casing: YES / NO

Inside of Well Head and Outer Casing Dry: YES / NO

Comments:

MONITORING WELL SAMPLING LOG

Date: 8/26/2024

Project Name: BLT Q3 GWM	Project No.: 0611-01-09-02	Well No.: MW3
Field Personnel: CZL	Static Water Level: 8.74	
Water Level Measurement Method: E-tape		
Time Start Purge: 1105	Time End Purge: 1120	Time Sampled: 1125
Measuring Point Description: TOC-N		
Purge Method: Low Flow	Purge Depth: 1' below water	

Well Volume Calculation **(Fill in before purging)**	Total Depth (ft)	Depth to Water (ft)	Casing Diameter (in)	Water Column (ft)	Multiplier (1inch=0.0408g/ft; 2inch=0.1632g/ft)	Casing Volume (gal)
	14.45	8.74	1	5.71	0.0408	0.23
	Notes:					

Time	1110	1115	1120			
Depth to Water (ft)	9.01	9.02	9.02			
Volume Purged (g)	0.25	0.50	0.75			
pH (0.1)	6.19	6.20	6.20			
Temperature C. (3%)	21.60	21.50	21.50			
Conductivity uS/cm (3%)	973	971	966			
Turbidity (10%)	26	22	16			
Dissolved Oxygen (0.3)	0.06	0.04	0.03			
ORP	-109.3	-132.8	-141.8			
Color	Clear	Clear	Clear			
Odor/Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen			

Comments:

Recovery %: 100 Depth to Water at Sampling (ft): ~10' Note(s):

Sampling / Field Equipment (Manufacture / Model / Last Calibration): Aquaread / 2000 / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sample No.	Sample Quantity	Container Type 40 mL VOA/500 mL Amber / 1 L Amber / 250 mL Poly	Preservative / Field Filtered (FF)	Analysis Request	Visual Observation (Clear, Cloudy, Silty, Etc.)
MW3-082624	1	(2) 500 mL Ambers	N/A	Multi	Clear
		(2) 250 mL Polys	HNO_3, 1-FF 0.45micron		
		(4) 40 mL VOAs	HCl		

Total Discharge (gal):1 Disposal Method: Drum Onsite Drum Designation(s)/Volume: IDW-W

WELL HEAD CONDITIONS CHECKLIST (Circle YES or NO -- if NO, add comments)

Well Security Devices OK (Bollards, Christy Lid, Casing Lid and Lock): YES / N O Well Casing: YES / NO

Inside of Well Head and Outer Casing Dry: YES / NO

Comments:

MONITORING WELL SAMPLING LOG

Date: 8/26/2024

Project Name: BLT Q3 GWM	Project No.: 0611-01-09-02	Well No.: MW4
Field Personnel: CZL	Static Water Level: 9.95	
Water Level Measurement Method: E-tape		
Time Start Purge: 1005	Time End Purge: 1020	Time Sampled: 1030
Measuring Point Description: TOC-N		
Purge Method: Low Flow	Purge Depth: 1' below water	

Well Volume Calculation **(Fill in before purging)**	Total Depth (ft)	Depth to Water (ft)	Casing Diameter (in)	Water Column (ft)	Multiplier (1inch=0.0408g/ft; 2inch=0.1632g/ft)	Casing Volume (gal)
	14.37	9.95	1	4.42	0.0408	0.18
	Notes: Purge depth dropped due to drop in depth to water					

Time	1010	1020				
Depth to Water (ft)	14.02	14.30				
Volume Purged (g)	0.25	0.5				
pH (0.1)	6.13	6.07				
Temperature C. (3%)	21.45	21.00				
Conductivity uS/cm (3%)	1246	1200				
Turbidity (10%)	53	22				
Dissolved Oxygen (0.3)	0.18	0.25				
ORP	-113.2	-107.9				
Color	Clear	Clear				
Odor/Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen				

Comments: Well ran dry at 5 minutes, allowed to recharge then purged again till dry. Well allowed to recharge again prior to collecting sample.

Recovery %: 100 Depth to Water at Sampling (ft): 11.98 Note(s):

Sampling / Field Equipment (Manufacture / Model / Last Calibration): Aquaread / 2000 / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sample No.	Sample Quantity	Container Type 40 mL VOA/500 mL Amber / 1 L Amber / 250 mL Poly	Preservative / Field Filtered (FF)	Analysis Request	Visual Observation (Clear, Cloudy, Silty, Etc.)
MW4-082624	1	(2) 500 mL Ambers	N/A	Multi	Clear
		(2) 250 mL Polys	HNO_3, 1-FF 0.45micron		
		(4) 40 mL VOAs	HCl		

Total Discharge (gal):0.75	Disposal Method: Drum Onsite	Drum Designation(s)/Volume: IDW-W

WELL HEAD CONDITIONS CHECKLIST (Circle YES or NO -- if NO, add comments)

Well Security Devices OK (Bollards, Christy Lid, Casing Lid and Lock): YES / N O Well Casing: YES / NO

Inside of Well Head and Outer Casing Dry: YES / NO

Comments:

eci Environmental Services

MONITORING WELL SAMPLING LOG

Date: 8/26/2024

Project Name: BLT Q3 GWM	Project No.: 0611-01-09-02	Well No.: MW5
Field Personnel: CZL	Static Water Level:9.03	
Water Level Measurement Method: E-tape		
Time Start Purge: 0915	Time End Purge: 0930	Time Sampled: 0935
Measuring Point Description: TOC-N		
Purge Method: Low Flow	Purge Depth: 1' below water	

Well Volume Calculation **(Fill in before purging)**	Total Depth (ft)	Depth to Water (ft)	Casing Diameter (in)	Water Column (ft)	Multiplier (1inch=0.0408g/ft; 2inch=0.1632g/ft)	Casing Volume (gal)
	14.40	9.03	5.37	5.68	0.0408	0.22
	Notes:					

Time	0920	0925	0930			
Depth to Water (ft)	9.87	9.92	9.96			
Volume Purged (g)	0.25	0.50	0.75			
pH (0.1)	6.09	6.09	6.09			
Temperature C. (3%)	20.60	20.50	20.50			
Conductivity uS/cm (3%)	1230	1423	1432			
Turbidity (10%)	63.4	16.5	13.9			
Dissolved Oxygen (0.3)	0.07	0.07	0.07			
ORP	42.9	26.1	29.7			
Color	Clear	Clear	Clear			
Odor/Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen	Sulfur Odor/No Sheen			

Comments:

Recovery %: 100 Depth to Water at Sampling (ft): 11.98 Note(s):

Sampling / Field Equipment (Manufacture / Model / Last Calibration): Aquaread / 2000 / 5/10/2024

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sampling / Field Equipment (Manufacture / Model / Last Calibration): _____ / _____ / _____

Sample No.	Sample Quantity	Container Type (40 mL VOA/500 mL Amber / 1 L Amber / 250 mL Poly)	Preservative / Field Filtered (FF)	Analysis Request	Visual Observation (Clear, Cloudy, Silty, Etc.)
MW5-082624	1	(2) 500 mL Ambers	N/A	Multi	Clear
		(2) 250 mL Polys	HNO_3, 1-FF 0.45micron		
		(4) 40 mL VOAs	HCl		

Total Discharge (gal):1 Disposal Method: Drum Onsite Drum Designation(s)/Volume: IDW-W

WELL HEAD CONDITIONS CHECKLIST (Circle YES or NO -- if NO, add comments)

Well Security Devices OK (Bollards, Christy Lid, Casing Lid and Lock): YES / N O Well Casing: YES / NO

Inside of Well Head and Outer Casing Dry: YES / NO

Comments:

Appendix D: Project Analytical Results

Laboratory Analytical Reports

Sample Chain of Custody

Libby Environmental, Inc.

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

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

September 18, 2024

Chanel Long
ECI
PO Box 153
Fox Island, WA 98333

RE: BLT Trucking
Work Order Number: L24H081

Enclosed are the results of analyses for samples received by our laboratory on 8/27/2024.

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

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

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

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

Chain of Custody Record

www.LibbyEnvironmental.com

Date: 8/26/24 Page: 1 of 1

Client: ECI
Address: P.O. Box 153
City: Fox Island State: WA Zip: 98333
Phone: (253)432-6586 Fax:
Client Project # 0611-01-09

Project Manager: Chanel Long
Project Name: BLT Trucking
Location: 8010 S 259th St. City, State: Kent, WA
Collector: Chanel Long Date of Collection: 8/26/24
Email: Chanel@alleci.com & David@alleci.com

#	Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082 Dx Dx w/ SiGel	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270	Total Arsenic	Diss Arsenic	Field Notes
1	MW1-082624	—	1230	H_2O	VOA, Amber poly			X			X							X	X	9-9-24 Added
2	MW2-082624	—	1325	↓	↓			X			X							X	X	Per Chanel via
3	MW3-082624	—	1125					X			X	X						X	X	email. STD
4	MW4-082624	—	1030					X			X	X						X	X	
5	MW5-082624	—	0935					X			X	X						X	X	
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				

Relinquished by:	Date / Time	Received by:	Date / Time
Kelly Melland	8/27 10:57	Josie Chilpus	8/27 10:57
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

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

Remarks:

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

ECI	**Project:** BLT Trucking	**City/State:** Kent, WA
PO Box 153	**Project Number:** 0611-01-09	**Work Order:** L24H081
Fox Island, WA 98333	**Project Manager:** Chanel Long	**Reported:** 09/18/2024 10:10

Notes and Definitions

Item	Definition
RL	Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
DET	Analyte DETECTED at or above the reporting limit
Qual	Qualifier

All results reported on an "as received" basis unless indicated by "Dry"

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L24H081-01	MW1-082624	Water	08/26/2024	08/27/2024
L24H081-02	MW2-082624	Water	08/26/2024	08/27/2024
L24H081-03	MW3-082624	Water	08/26/2024	08/27/2024
L24H081-04	MW4-082624	Water	08/26/2024	08/27/2024
L24H081-05	MW5-082624	Water	08/26/2024	08/27/2024

Libby Environmental, Inc.

ECI PO Box 153 Fox Island, WA 98333	**Project:** BLT Trucking **Project Number:** 0611-01-09 **Project Manager:** Chanel Long	**City/State:** Kent, WA **Work Order:** L24H081 **Reported:** 09/18/2024 10:10

Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: **MW2-082624**			Lab#: L24H081-02		
Diesel	1000		ug/L	190	NWTPH-Dx/Dx
Oil	460		ug/L	380	NWTPH-Dx/Dx
Sample: **MW3-082624**			Lab#: L24H081-03		
Oil	880		ug/L	340	NWTPH-Dx/Dx
Sample: **MW4-082624**			Lab#: L24H081-04		
Oil	790		ug/L	350	NWTPH-Dx/Dx
Sample: **MW5-082624**			Lab#: L24H081-05		
Oil	440		ug/L	320	NWTPH-Dx/Dx

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

Libby Environmental, Inc.

ECI PO Box 153 Fox Island, WA 98333	**Project:** BLT Trucking **Project Number:** 0611-01-09 **Project Manager:** Chanel Long	**City/State:** Kent, WA **Work Order:** L24H081 **Reported:** 09/18/2024 10:10

Sample Results

Client Sample ID: MW1-082624

Lab ID: L24H081-01 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	08/28/2024	AA
Surrogate: Toluene-d8	*86.8%*		*52.9-135*		*08/28/2024*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		170	ug/L	08/28/2024	KLI
Oil	ND		340	ug/L	08/28/2024	KLI
Surrogate: 2-FBP	*72.9%*		*46.7-121*		*08/28/2024*	*KLI*

ECI
PO Box 153
Fox Island, WA 98333

Project: BLT Trucking
Project Number: 0611-01-09
Project Manager: Chanel Long

City/State: Kent, WA
Work Order: L24H081
Reported: 09/18/2024 10:10

Sample Results (Continued)

Client Sample ID: MW2-082624

Lab ID: L24H081-02 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	08/28/2024	AA
Surrogate: Toluene-d8	*90.8%*		*52.9-135*		*08/28/2024*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	1000		190	ug/L	08/28/2024	KLI
Oil	460		380	ug/L	08/28/2024	KLI
Surrogate: 2-FBP	*67.3%*		*46.7-121*		*08/28/2024*	*KLI*
Diesel and Oil by NWTPH-Dx/Dx w/Silica Gel Clean-up						
Diesel	ND		170	ug/L	09/17/2024	KLI
Oil	ND		340	ug/L	09/17/2024	KLI
Surrogate: 2-FBP	*78.5%*		*46.7-121*		*09/17/2024*	*KLI*

ECI PO Box 153 Fox Island, WA 98333	**Project:** BLT Trucking **Project Number:** 0611-01-09 **Project Manager:** Chanel Long	**City/State:** Kent, WA **Work Order:** L24H081 **Reported:** 09/18/2024 10:10

Sample Results (Continued)

Client Sample ID: MW3-082624

Lab ID: L24H081-03 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	08/28/2024	AA
Surrogate: Toluene-d8	*114%*		*52.9-135*		*08/28/2024*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		170	ug/L	08/30/2024	KLI
Oil	880		340	ug/L	08/30/2024	KLI
Surrogate: 2-FBP	*68.8%*		*46.7-121*		*08/30/2024*	*KLI*
Diesel and Oil by NWTPH-Dx/Dx w/Silica Gel Clean-up						
Diesel	ND		170	ug/L	09/13/2024	KLI
Oil	ND		340	ug/L	09/13/2024	KLI
Surrogate: 2-FBP	*70.2%*		*46.7-121*		*09/13/2024*	*KLI*

ECI PO Box 153 Fox Island, WA 98333	**Project:** BLT Trucking **Project Number:** 0611-01-09 **Project Manager:** Chanel Long	**City/State:** Kent, WA **Work Order:** L24H081 **Reported:** 09/18/2024 10:10

Sample Results (Continued)

Client Sample ID: MW4-082624

Lab ID: L24H081-04 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	08/28/2024	AA
Surrogate: Toluene-d8	*112%*		*52.9-135*		*08/28/2024*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		170	ug/L	08/30/2024	KLI
Oil	790		350	ug/L	08/30/2024	KLI
Surrogate: 2-FBP	*65.9%*		*46.7-121*		*08/30/2024*	*KLI*
Diesel and Oil by NWTPH-Dx/Dx w/Silica Gel Clean-up						
Diesel	ND		170	ug/L	09/13/2024	KLI
Oil	ND		350	ug/L	09/13/2024	KLI
Surrogate: 2-FBP	*68.7%*		*46.7-121*		*09/13/2024*	*KLI*

ECI PO Box 153 Fox Island, WA 98333	**Project:** BLT Trucking **Project Number:** 0611-01-09 **Project Manager:** Chanel Long	**City/State:** Kent, WA **Work Order:** L24H081 **Reported:** 09/18/2024 10:10

Sample Results (Continued)

Client Sample ID: MW5-082624

Lab ID: L24H081-05 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	08/28/2024	AA
Surrogate: Toluene-d8	*112%*		*52.9-135*		*08/28/2024*	*AA*
Diesel and Oil by NWTPH-Dx/Dx						
Diesel	ND		160	ug/L	08/30/2024	KLI
Oil	440		320	ug/L	08/30/2024	KLI
Surrogate: 2-FBP	*58.1%*		*46.7-121*		*08/30/2024*	*KLI*

ECI PO Box 153 Fox Island, WA 98333	**Project:** BLT Trucking **Project Number:** 0611-01-09 **Project Manager:** Chanel Long	**City/State:** Kent, WA **Work Order:** L24H081 **Reported:** 09/18/2024 10:10

Quality Control

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYH0146 - VOA										
Blank (BYH0146-BLK1)					Prepared & Analyzed: 8/28/2024					
Gasoline	ND		100	ug/L						
Surrogate: Toluene-d8			*20.7*	*ug/L*	*20.0*		*103*	*52.9-135*		
Duplicate (BYH0146-DUP1)		**Parent: L24H081-01**			Prepared & Analyzed: 8/28/2024					
Gasoline	ND		100	ug/L		ND				35
Surrogate: Toluene-d8			*22.1*	*ug/L*	*20.0*		*110*	*52.9-135*		

ECI
PO Box 153
Fox Island, WA 98333

Project: BLT Trucking
Project Number: 0611-01-09
Project Manager: Chanel Long

City/State: Kent, WA
Work Order: L24H081
Reported: 09/18/2024 10:10

Quality Control
(Continued)

Diesel and Oil by NWTPH-Dx/Dx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYH0147 - Extraction										
Blank (BYH0147-BLK1)					Prepared & Analyzed: 8/28/2024					
Diesel	ND		200	ug/L						
Oil	ND		400	ug/L						
Surrogate: 2-FBP			*201*	*ug/L*	*250*		*80.6*	*46.7-121*		
LCS (BYH0147-BS1)					Prepared & Analyzed: 8/28/2024					
Diesel	1040		200	ug/L	1000		104	64.4-119		
Surrogate: 2-FBP			*228*	*ug/L*	*250*		*91.2*	*46.7-121*		
Duplicate (BYH0147-DUP1)		**Parent: L24H081-02**			Prepared & Analyzed: 8/28/2024					
Diesel	956		160	ug/L		1000			4.74	35
Oil	341		330	ug/L		463			30.4	35
Surrogate: 2-FBP			*134*	*ug/L*	*204*		*65.5*	*46.7-121*		
Blank (BYH0160-BLK1)					Prepared & Analyzed: 8/30/2024					
Diesel	ND		200	ug/L						
Oil	ND		400	ug/L						
Surrogate: 2-FBP			*164*	*ug/L*	*250*		*65.8*	*46.7-121*		
LCS (BYH0160-BS1)					Prepared & Analyzed: 8/30/2024					
Diesel	1000		200	ug/L	1000		100	64.4-119		
Surrogate: 2-FBP			*213*	*ug/L*	*250*		*85.1*	*46.7-121*		
Duplicate (BYH0160-DUP1)		**Parent: L24H081-03**			Prepared & Analyzed: 8/30/2024					
Diesel	ND		170	ug/L		ND				35
Oil	968		350	ug/L		876			9.99	35
Surrogate: 2-FBP			*162*	*ug/L*	*217*		*74.6*	*46.7-121*		

ECI PO Box 153 Fox Island, WA 98333	**Project:** BLT Trucking **Project Number:** 0611-01-09 **Project Manager:** Chanel Long	**City/State:** Kent, WA **Work Order:** L24H081 **Reported:** 09/18/2024 10:10

Quality Control
(Continued)

Diesel and Oil by NWTPH-Dx/Dx w/Silica Gel Clean-up

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYI0057 - Extraction										
Blank (BYI0057-BLK1)					Prepared & Analyzed: 9/13/2024					
Diesel	ND		200	ug/L						
Oil	ND		400	ug/L						
Surrogate: 2-FBP			*169*	*ug/L*	*250*		*67.5*	*46.7-121*		
LCS (BYI0057-BS1)					Prepared & Analyzed: 9/13/2024					
Diesel	965		200	ug/L	1000		96.5	64.4-119		
Surrogate: 2-FBP			*213*	*ug/L*	*250*		*85.1*	*46.7-121*		
Duplicate (BYI0057-DUP1)		**Parent: L24H081-03**			Prepared & Analyzed: 9/13/2024					
Diesel	ND		170	ug/L		ND				35
Oil	ND		350	ug/L		ND				35
Surrogate: 2-FBP			*158*	*ug/L*	*217*		*73.0*	*46.7-121*		
Blank (BYI0086-BLK1)					Prepared: 8/28/2024 Analyzed: 9/17/2024					
Diesel	ND		200	ug/L						
Oil	ND		400	ug/L						
Surrogate: 2-FBP			*232*	*ug/L*	*250*		*92.8*	*46.7-121*		
LCS (BYI0086-BS1)					Prepared: 8/28/2024 Analyzed: 9/17/2024					
Diesel	965		200	ug/L	1000		96.5	64.4-119		
Surrogate: 2-FBP			*257*	*ug/L*	*250*		*103*	*46.7-121*		
Duplicate (BYI0086-DUP1)		**Parent: L24H081-02**			Prepared: 8/28/2024 Analyzed: 9/17/2024					
Diesel	ND		160	ug/L		ND				35
Oil	ND		330	ug/L		ND				35
Surrogate: 2-FBP			*158*	*ug/L*	*204*		*77.1*	*46.7-121*		

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

BLT Trucking Project
ECI
Libby Work Order # L24H081
Date Received 8/27/2024
Time Received 10:57 AM

Received By JC

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody is complete?	☑ Yes	☐ No	
2. How was the sample delivered?	☐ Hand Delivered	☑ Picked Up	☐ Shipped

Log In

3. Cooler or Shipping Container is present.	☑ Yes	☐ No	☐ N/A
4. Cooler or Shipping Container is in good condition.	☑ Yes	☐ No	☐ N/A
5. Cooler or Shipping Container has Custody Seals present.	☐ Yes	☑ No	☐ N/A
6. Was an attempt made to cool the samples?	☑ Yes	☐ No	☐ N/A
7. Temperature of cooler (0°C to 8°C recommended)	0.8 °C		
8. Temperature of sample(s) (0°C to 8°C recommended)	5.0 °C		
9. Did all containers arrive in good condition (unbroken)?	☑ Yes	☐ No	
10. Is it clear what analyses were requested?	☑ Yes	☐ No	
11. Did container labels match Chain of Custody?	☑ Yes	☐ No	
12. Are matrices correctly identified on Chain of Custody?	☑ Yes	☐ No	
13. Are correct containers used for the analysis indicated?	☑ Yes	☐ No	
14. Is there sufficient sample volume for indicated analysis?	☑ Yes	☐ No	
15. Were all containers properly preserved per each analysis?	☑ Yes	☐ No	
16. Were VOA vials collected correctly (no headspace)?	☑ Yes	☐ No	☐ N/A
17. Were all holding times able to be met?	☑ Yes	☐ No	

Discrepancies/ Notes

18. Was client notified of all discrepancies?	☐ Yes	☐ No	☑ N/A

Person Notified: _____ Date: _____

By Whom: _____ Via: _____

Regarding: _____

19. Comments. _____

3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Libby Environmental
Sherry Chilcutt
3322 South Bay Road NE
Olympia, WA 98506

RE: BLT Trucking, L24H081
Work Order Number: 2408474

September 05, 2024

Attention Sherry Chilcutt:

Fremont Analytical, Inc, an Alliance Technical Group company, received 5 sample(s) on 8/28/2024 for the analyses presented in the following report.

Dissolved Metals by EPA 6020B
Total Metals by EPA 6020B

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *09/05/2024*

CLIENT: Libby Environmental
Project: BLT Trucking
Work Order: 2408474

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2408474-001	MW1-082624	08/26/2024 12:30 PM	08/28/2024 10:15 AM
2408474-002	MW2-082624	08/26/2024 1:25 PM	08/28/2024 10:15 AM
2408474-003	MW3-082624	08/26/2024 11:25 AM	08/28/2024 10:15 AM
2408474-004	MW4-082624	08/26/2024 10:30 AM	08/28/2024 10:15 AM
2408474-005	MW5-082624	08/26/2024 9:35 AM	08/28/2024 10:15 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

Case Narrative

WO#: **2408474**

Date: **9/5/2024**

CLIENT: Libby Environmental
Project: BLT Trucking

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

CLIENT: Libby Environmental
Project: BLT Trucking

Lab ID: 2408474-001 **Collection Date:** 8/26/2024 12:30:00 PM
Client Sample ID: **MW1-082624** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA 6020B				Batch ID: 45100		Analyst: ME
Arsenic	3.92	0.500		µg/L	1	9/5/2024 11:08:00 AM
Total Metals by EPA 6020B				Batch ID: 45028		Analyst: ME
Arsenic	4.56	0.500		µg/L	1	8/30/2024 12:37:00 PM

Lab ID: 2408474-002 **Collection Date:** 8/26/2024 1:25:00 PM
Client Sample ID: **MW2-082624** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA 6020B				Batch ID: 45100		Analyst: ME
Arsenic	2.31	0.500		µg/L	1	9/5/2024 11:20:00 AM
Total Metals by EPA 6020B				Batch ID: 45028		Analyst: ME
Arsenic	2.46	0.500		µg/L	1	8/30/2024 12:39:00 PM

Lab ID: 2408474-003 **Collection Date:** 8/26/2024 11:25:00 AM
Client Sample ID: **MW3-082624** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA 6020B				Batch ID: 45100		Analyst: ME
Arsenic	1.50	0.500		µg/L	1	9/5/2024 11:22:00 AM
Total Metals by EPA 6020B				Batch ID: 45028		Analyst: ME
Arsenic	1.70	0.500		µg/L	1	8/30/2024 12:42:00 PM

Analytical Report

Work Order: **2408474**
Date Reported: **9/5/2024**

CLIENT: Libby Environmental
Project: BLT Trucking

Lab ID: 2408474-004 **Collection Date:** 8/26/2024 10:30:00 AM
Client Sample ID: **MW4-082624** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA 6020B				Batch ID: 45100		Analyst: ME
Arsenic	7.46	0.500		µg/L	1	9/5/2024 11:25:00 AM
Total Metals by EPA 6020B				Batch ID: 45028		Analyst: ME
Arsenic	7.40	0.500		µg/L	1	8/30/2024 12:44:00 PM

Lab ID: 2408474-005 **Collection Date:** 8/26/2024 9:35:00 AM
Client Sample ID: **MW5-082624** **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA 6020B				Batch ID: 45100		Analyst: ME
Arsenic	1.00	0.500		µg/L	1	9/5/2024 11:32:00 AM
Total Metals by EPA 6020B				Batch ID: 45028		Analyst: ME
Arsenic	0.915	0.500		µg/L	1	8/30/2024 12:47:00 PM

Work Order: 2408474
CLIENT: Libby Environmental
Project: BLT Trucking

QC SUMMARY REPORT

Dissolved Metals by EPA 6020B

Sample ID: **MB-45100**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **9/5/2024**		RunNo: **94133**		
Client ID: **MBLKW**	Batch ID: **45100**					Analysis Date: **9/5/2024**		SeqNo: **1966137**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.500									

Sample ID: **LCS-45100**	SampType: **LCS**			Units: **µg/L**		Prep Date: **9/5/2024**		RunNo: **94133**		
Client ID: **LCSW**	Batch ID: **45100**					Analysis Date: **9/5/2024**		SeqNo: **1966138**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	98.4	0.500	100.0	0	98.4	80	120				

Sample ID: **2408474-001BDUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **9/5/2024**		RunNo: **94133**		
Client ID: **MW1-082624**	Batch ID: **45100**					Analysis Date: **9/5/2024**		SeqNo: **1966140**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	3.82	0.500						3.922	2.50	20	

Sample ID: **2408474-001BMS**	SampType: **MS**			Units: **µg/L**		Prep Date: **9/5/2024**		RunNo: **94133**		
Client ID: **MW1-082624**	Batch ID: **45100**					Analysis Date: **9/5/2024**		SeqNo: **1966141**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106	0.500	100.0	3.922	102	75	125				

Sample ID: **2408474-001BMSD**	SampType: **MSD**			Units: **µg/L**		Prep Date: **9/5/2024**		RunNo: **94133**		
Client ID: **MW1-082624**	Batch ID: **45100**					Analysis Date: **9/5/2024**		SeqNo: **1966142**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	103	0.500	100.0	3.922	99.3	75	125	106.2	2.90	20	

Work Order: 2408474
CLIENT: Libby Environmental
Project: BLT Trucking

QC SUMMARY REPORT

Total Metals by EPA 6020B

Sample ID: **LCS-45028**	SampType: **LCS**			Units: **µg/L**		Prep Date: **8/29/2024**		RunNo: **94040**		
Client ID: **LCSW**	Batch ID: **45028**					Analysis Date: **8/30/2024**		SeqNo: **1964021**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	97.7	0.500	100.0	0	97.7	80	120				

Sample ID: **2408391-016BDUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **8/29/2024**		RunNo: **94040**		
Client ID: **BATCH**	Batch ID: **45028**					Analysis Date: **8/30/2024**		SeqNo: **1964023**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.50	0.500						1.510	0.998	20	

Sample ID: **2408391-016BMS**	SampType: **MS**			Units: **µg/L**		Prep Date: **8/29/2024**		RunNo: **94040**		
Client ID: **BATCH**	Batch ID: **45028**					Analysis Date: **8/30/2024**		SeqNo: **1964024**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	96.2	0.500	100.0	1.510	94.7	75	125				

Sample ID: **2408391-016BMSD**	SampType: **MSD**			Units: **µg/L**		Prep Date: **8/29/2024**		RunNo: **94040**		
Client ID: **BATCH**	Batch ID: **45028**					Analysis Date: **8/30/2024**		SeqNo: **1964025**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	97.1	0.500	100.0	1.510	95.6	75	125	96.21	0.895	20	

Sample ID: **MB-45028**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **8/29/2024**		RunNo: **94040**		
Client ID: **MBLKW**	Batch ID: **45028**					Analysis Date: **8/30/2024**		SeqNo: **1964032**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.500									

Sample Log-In Check List

Client Name:	LIBBY	Work Order Number:	2408474
Logged by:	Morgan Wilson	Date Received:	8/28/2024 10:15:00 AM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	UPS		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☑ No ☐ NA ☐

Person Notified:	Emily Bushlen	Date:	8/28/2024
By Whom:	Morgan Wilson	Via:	☑ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	6010 on COC, Plan to Proceed 6020		
Client Instructions:	Okay to Proceed		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	2.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Libby Environmental, Inc.

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

SUBCONTRACT ORDER L24H081

2408474

Sending Laboratory:

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt
LibbyEnv@gmail.com

Subcontracted Laboratory:

Fremont Analytical, Inc.
3600 Fremont Ave N
Seattle, WA 98103
Phone: (206) 352-3790
Fax:

Requested Turnaround (TAT) Standard

Project: BLT Trucking

Analysis	Comments

Client Sample ID: MW1-082624 ***Water Sampled: 08/26/2024 12:30*** Lab ID: L24H081-01

Metals 6010 As, Total
Metals 6010 As, Diss

Containers Supplied:

Client Sample ID: MW2-082624 ***Water Sampled: 08/26/2024 13:25*** Lab ID: L24H081-02

Metals 6010 As, Total
Metals 6010 As, Diss

Containers Supplied:

Client Sample ID: MW3-082624 ***Water Sampled: 08/26/2024 11:25*** Lab ID: L24H081-03

Metals 6010 As, Total
Metals 6010 As, Diss

Containers Supplied:

Client Sample ID: MW4-082624 ***Water Sampled: 08/26/2024 10:30*** Lab ID: L24H081-04

Metals 6010 As, Total
Metals 6010 As, Diss

Containers Supplied:

Client Sample ID: MW5-082624 ***Water Sampled: 08/26/2024 09:35*** Lab ID: L24H081-05

Metals 6010 As, Total
Metals 6010 As, Diss

Containers Supplied:

Released By 08/27/24 Date

Received By 8/28/24 Date 1015