PHASE III
Limited and Targeted Subsurface Investigation

Performed at:
GEAR JAMMER TRAVEL PLAZA
AM Best Truck Stop
2310 Rudkin Road
Union Gap, Washington 98903

AEROTECH
Environmental Consulting Inc.

January 5, 2017

Anchorage Seattle Portland

Cost-effective environmental solutions
for the western United States and Alaska

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Performed by:
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LIMITED AND TARGETED PHASE II
TARGETED SUBSURFACE INVESTIGATION

performed for:
POWELL CHRISTENSEN, INC.
AM Best Truck Stop
2310 Rudkin Road
Union Gap, Washington 98903

Client:	**MR. BRANDON CHRISTENSEN** POWELL-CHRISTENSEN, INC. 151 North Commercial Avenue Pasco, Washington 99301
Point of Contact:	Mr. Brandon Christensen / Owner
Property:	**GEARJAMMER TRAVEL PLAZA** **AM Best Truck Stop** 2310 Rudkin Road Union Gap, Washington 98903
County:	Yakima County, Washington
Commercial Activity:	Truck Stop and Shell franchised Gasoline Station
Licensed Geologist:	James G. McDermott (License No. 3063)
Project Number:	216 - 8247
Report Date:	January 5, 2017

EXECUTIVE SUMMARY

On May 8, 2016, after conducting an All Appropriate Inquiry ("AAI") Compliant[1] *Phase I Environmental Site Assessment* for the subject Property, an irregular 11.46-acre Parcel of commercial land located on the west side of Rudkin Road in Union Gap, Washington. Aerotech Environmental Consulting, Inc. ("Aerotech") completed a limited and targeted Phase II subsurface investigation on September 1,2016 and recommended that a Phase III investigation be conducted to ascertain the lateral and vertical extent of diesel-impacted soils or groundwater at the Site.

Adjoining to the east is U.S. Interstate I-82 and two blocks to the south is East Valley Mall Boulevard. The main channel of the Yakima River is 1,700 feet to the east, with side channels and associated ponds within the flood plain 1,200 feet to the east.The Property is developed with two commercial buildings occupied by *Freight Savers Lube and Oil* and the *GearJammer Shell Travel Plaza / AM Best Truck Stop*

The main building is a one-story structure occupied by the *GearJammer Travel Plaza*. The main entrance is at the southeastern side of the building, followed by a full service restaurant, a Trucker's Lounge with Store, and the Jammers Sports Bar. An attached canopy to the northeast protects six truck diesel fuel dispenser islands, and a smaller southern canopy protects four gasoline fuel dispensers. Indications of seven additional diesel fuel dispenser islands along the north side of the canopy were visible, consistent with architectural plans dated June 1977. An underground fuel tank basin is located to the south. It houses four 20,000-gallon tanks (three diesel and one gasoline) and one 10,000-gallon gasoline tank. Figures 2 and 2b.

Situated along the northern margin of the Property is a rectangular-shaped building occupied by *Freight Savers Lube and Oil*. To the south is the lube bay with a below grade mechanic's pit; to the north are two bays, one used primarily for tire changing and the other as a truck and semi wash area. Interior zipper drains discharge to an oil-water separator located near the northwestern corner of the building.

The Site was originally developed in 1964. In 1978, the *Gearjammer Truck Stop* installed four 20,000-gallon tanks and two 1,000-gallon tanks. The following year (1979) an underground waste oil tank was installed. In 1998, a 12,000-gallon unleaded gasoline tank was installed at the Site. In 1999, the Site reported a Petroleum Release to the State of Washington Department of Ecology. Subsequent investigations revealed that non-halogenated solvents and petroleum hydrocarbons had impacted both the Site subsurface soils and ground water. The Phase II report made the following recommendations:

> **"Diesel Fuel Pump Area: Further Action Recommended.** Gasoline constituents were not detected on Site. Diesel fuel was detected in soil at a depth of 12.5 feet, at 3,200 mg/kg, above MTCA Cleanup Levels for soil of 2,000 mg/kg, at location B-34, southwest of the diesel fuel dispenser area, and at 960 mg/kg at location B-20, at the landscaped area to the south. Diesel fuel was not detected in water at MW-3, approximately 40 feet south of location B-20. Further action is recommended."

Limited & Targeted Phase III Subsurface Investigation: Conclusions & Recommendations:

Aerotech performed a Phase III Subsurface Investigation on November 29 and 30, 2016 in order to define the extent and nature of diesel contamination identified during the Phase II Investigation. Eleven soil borings were advanced to a maximum depth of 16 feet below ground surface ("bgs"). Groundwater was encountered near 11 to 14 feet bgs. The Phase III Subsurface Investigation determined:

> ■ **Diesel Fuel Dispenser Area: Further Action Recommended**. Diesel fuel constituents were detected at depths of 10 to 14 feet bgs, at concentrations between 400 and 29,000 mg/kg, well above the most stringent Model Toxics Control Act ("MTCA") Method A Cleanup Levels for soil. Soils underneath the diesel fueling area are impacted. The axis of an estimated 60-foot wide diesel plume extends from the diesel fuel pump area southeast toward the nearby southeast driveway. Refer to Figure 3b. Concentrations of 29,000 mg/kg were documented near the eastern corner of the diesel fuel area, and concentrations of 9,900 mg/kg were observed within 45 feet of the center of the southeast driveway. Diesel and gasoline constituents were not detected in groundwater samples collected south of the main building. The body of the diesel plume has been well -defined, however, the precise location of the downgradient and upgradient terminus of the plume has not been defined. Further action is recommended.

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INTRODUCTION

Aerotech Environmental Consulting, Inc., performed this Limited and Targeted Phase III Subsurface Investigation[1] of the subject Property located at 2310 Rudkin Road, in Union Gap, Washington. The objective of this Investigation was to attempt to ascertain the vertical and lateral extent of diesel impacted soils or groundwater in the vicinity of the diesel fuel dispenser island area in the southeast quadrant of the Property.

On November 15, 2016, Mr. Brenden Christensen of *Powell-Christensen, Inc*. in Pasco, Washington, engaged Aerotech Environmental Consulting, Inc. to perform a *Limited and Targeted Phase III Environmental Investigation* of the Site – the Scope of Work of said Investigation was communicated verbally and in the form of a Service Agreement at that time.

SECTION I.
SITE DESCRIPTION

Site Exterior and Interior Description:

The main building is a one-story irregular five-sided structure situated on concrete slab at grade and occupied by the *GearJammer Travel Plaza*. The main entrance is at the southeastern side of the building providing access to a cash register counter and *Subway Sandwich* service counter. Adjoining to the west is a full service restaurant followed by the Trucker's Lounge with a Trucker' Store to the north and the Jammers Sports Bar to the west. Refer to Figures 2, 2b and 3.

Two attached metal-framed canopies extend to the northeast and south. The northeast canopy protects four truck diesel dispensers and lanes between Cat scale lanes on each end. The southern canopy protects four double-side fuel dispensers serving cars and small trucks.

Southeast of the south canopy is an underground fuel tank pit housing four 20,000-gallon tanks (three diesel and one gasoline) and one 10,000-gallon gasoline tank. The larger tanks were installed in 1978, and the smaller tank in 1998. The product supply piping is corrosion resistant double-walled flexible fiberglass piping. The tanks and lines are monitored by a *Incon TS 2001 Tank Sentinel© TLS-350* real time Automatic Line Leak Detection.

Situated along the northern margin of the Property is a rectangular-shaped slab on grade concrete block building occupied by *Freight Savers Lube and Oil*. In the east central portion of the building is the office and parts storage space. Adjoining to the south is the lube bay with a below grade mechanic's pit and roll up doors on both ends. Adjoining the north side of the office are two bays, each with roll up doors on both ends, one used primarily for tire changing and the other as a truck and semi wash area. Interior zipper drains discharge to an oil-water separator located near the northwestern corner of the building.

The western half of the Property is dominated by a semi-truck overnight parking. Access between the Property and Rudkin Road is provided by three driveways along the eastern Property perimeter. One driveway provides access to the adjoining property to the south.

---

[1] This Phase II Site Assessment is "targeted" as defined by the ASTM *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, Designation E 1903-97 (Reapproved 2002); "an assessment performed in accordance with the process described in this [E 1903-97] practice, which addresses only certain *releases* or potential *releases*, or certain *target analytes*, at a property as selcted by the *User* but which does not address all *releases*, potential *releases*, and *target analytes*.[E 1903-97, § 3.1.43]"

Site Development Description:

The Site was originally developed in 1964. In 1978, the *Gearjammer Truck Stop* installed four 20,000-gallon tanks and two 1,000-gallon tanks. The following year (1979) an underground waste oil tank was installed. In 1998, a 12,000-gallon unleaded gasoline tank was installed at the Site. In 1999, the Site reported a Petroleum Release to the State of Washington Department of Ecology. Subsequent investigations revealed that non-halogenated solvents and petroleum hydrocarbons had impacted both the Site subsurface soils and ground water.

Previously Recognized Environmental Conditions:

The objective of this Investigation was to evaluate the condition of the subsurface soils and groundwater for the Recognized Environmental Conditions associated with the historic use on the Property of a 1,000-gallon underground gasoline fuel tank, in order to determine whether the Site has been impacted by petroleum compounds or lead.

Previously Identified Contaminants of Concern:

Aerotech Environmental Consulting, Inc. completed a Phase I Environmental Assessment for the Property on May 23, 2016. The Phase I Environmental Assessment prepared by Aerotech identified Petroleum compounds, fuel additive and lead as Contaminants of Concern. During a Phase II investigation dated September 1, 2016, diesel fuel was identified at concentrations above State of Washington MTCA Method A Cleanup Levels for soil.

Site Observations and Reported Conditions:

With the exception of the above referenced environmental concern, there were no additional Recognized Environmental Conditions or concerns identified as potential impacts to the Property.

SECTION II.
FIELD WORK

Notifications - "Public" Utilities:

Due to the age and nature of the Site, a "public" utilities notification was performed prior to the start of work. Aerotech Environmental Consulting, Inc.[2] Performed the "public" utilities notification and was issued Ticket Number 161241401 on August 1, 2016 by the Utilities Underground Location Center. An digital version of the original side sewer card was also acquired prior to the start of drilling activities. According to the Utilities Underground Location Center the utilities necessary for notification included:

Washington Ticket#: 16241401 2 FULL BUSINESS DAYS
Transmit Date: 8/01/16 Time: 10:35 AM
County: YAKIMA State: WA
Place: UNION GAP
Address / Street: 2310 RUDKIN RD

Map Twp: 13N Rng: 19E Sect-Qtr: 32
Excavation Coordinates for # Polygons: 1
Poly 1: NW Lat: 46.5705383 Lon: -120.4771589 SE Lat: 46.5670370 Lon: -120.4711994

Members Notified

District	Company	Markings	Customer Service
CNG08	CASCADE NATURAL GAS-YAKIMA	(509)457-8176	(888)522-113
FALCON19	CHARTER COMMUNICATIONS	(800)778-9140	(888)438-2427
LSN02	LIGHTSPEED NETWORKS INC.	(866)366-2638	(503)414-0475
NSI01	NEW SHANNO IRRIGATION CO	(509)930-9001	(509)453-5604
PPL31	PACIFIC POWER	(425)392-6412	(888)221-7070
QLNWA03	CTLQL-CENTURYLINK	(800)778-9140	(800)283-4237
UNION01	CITY OF UNION GAP	(509)248-0434	(509)248-0434
WDOTS02	WSDOT-SCR	(509)577-1961	(509)577-1960
YAKIMA01	CITY OF YAKIMA	(509)575-6154	(509)575-6154
YAKIMA02	YAKIMA SIGNAL DEPARTMENT	(509)576-6425	(509)576-6425
YCPW01	YAKIMA COUNTY PW (509)574-2396	(509)574-2396	(509)574-2396

Private Utilities Location

Additionally, Aerotech engaged personnel of Locate Plus, Inc. of Yakima, Washington to locate building and site utilities on November 29, 2016, prior to the start of the on Site drilling activities. No unanticipated or unexpected situations were discovered or encountered during the "private" locating activities.

Based in part upon pavement markings made by utility location technicians; the location of fuel product lines, utility fixtures such as water, electrical, or manholes, and the presence of anomalies detected by induction methodologies, locations were chosen in order to permit the safe placement of planned soil borings. As an added precaution, the upper 4 to 6 feet at most borehole locations deemed critical was evacuated by means of compressed air driven air-knife and vacuum equipment operated by Standard Environmental Probe of Tacoma, Washington.

A 30-inch sanitary sewer main extends diagonally from Rudkin Road southwestward along

[2] Aerotech Environmental Consulting, Inc., was previously issued a Contractor Identification Number by the non-profit Utilities Underground Location Center (www.callbeforeyoudig.com).

the north wall of the trucker's lounge and restaurant. City of Union Gap maps indicate an 8-inch water main extending along Rudkin Road. Refer to the attached Borehole Location Map for additional details regarding utility locations.

Conductible Utilities Investigation:

In order to confirm the locations of buried utilities on the Property, a magnetometer, and a conductible utilities investigation employing an induction method, were performed on November 29, 2016 prior to the initiation of drilling activities, by personnel from Utilities Plus, Inc. of Yakima, Washington. Locations of buried electrical, natural gas and other possible impediments to drilling were marked, with special attention to the planned locations of soil borings.

Ground Penetrating Radar Survey:

A Ground Penetrating Radar Survey conducted by Mountain View Locating Services staff on November 29, 2016, confirmed the presence of a former tank basin situated west of the west wall of the Truck Wash and Lube Building. No underground tanks were indicated in the vicinity of either building on Site, aside from the known active tanks operating near the southern margin of the Property. Utilities Plus staff employed Radar equipment utilizing Dual Frequency Antennae (300 MHz/800 MHz) manufactured by Geophysical Survey Systems.

Site Activities:

The *Limited & Targeted Phase II Subsurface Investigation* was performed between August 8 and August 11, 2016, under contract with Aerotech Environmental Consulting, Inc. All the work was performed during normal business hours No unusual or unforeseen circumstances occurred during the Site activities.

Drilling Activities:

Due to the nature of the Site surfaces and cobble-laden alluvial gravels, drilling operations employing a Truck-mounted Direct Push Drilling Rig equipped with stainless steel macrocore or microcore tooling, was chosen for use on Site.

The subsurface soil borings were performed by equipment owned by and operated by a Licensed Driller from Standard Environmental Probe ("SEP"). Air knife equipment was utilized to safely evacuate soils between the surface and depths of 4 to 6 feet. The on Site drilling equipment was operated by personnel employed by SEP, Mr. Chris Ross (State of Washington Department of Ecology Well Driller's License No. 3018). All subsurface work was overseen by State of Washington Licensed Geologist, Mr. James McDermott (No. 3063). Mr. Ryan Wigg was present to assist and log samples. The laboratory analytical services were performed by a State of Washington Licensed Lab, Advanced Analytical Labs in Redmond, Washington.

Soil Borings:

Consistent with conditions documented in the Phase II Investigation performed in August 2016, the Site subsurface in the area of the Phase III investigation was dominated by cobble-laden coarse sandy gravels, with occasional areas of shallow fill. The gravel fraction is commonly between 75 and 90 percent by volume, with well-graded fine to very coarse sand matrix containing traces of silt. Water was present between 11 and 14 feet bgs.

A total of eleven soil borings were advanced in the area of the diesel fuel dispenser pump

area. This includes the north tier of the canopy-covered diesel fueling area where evidence of the presence of an additional six fuel dispensers was observed, consistent with the original architectural plans for the facility, dated June 1, 1977. Detailed descriptions of soils encountered may be found in soil boring logs attached as an appendix to this report.

Soil and Groundwater Sample Collection:

A total of 32 discrete soil samples and two groundwater grab samples were collected on November 29 and 30, 2016 at eleven soil boring locations. Water samples were collected from two temporary wells inserted in open boreholes at locations B-40 and B-42. Soil samples were collected at depths between 4 and 16 feet bgs. Visual or olfactory evidence of petroleum impacted soil was observed near the water table at depths between 11 and 14 feet at all four locations explored underneath the diesel fuel canopy, and at two of six locations explored in the downgradient direction southeast of the canopy area. Groundwater samples were obtained from temporary wells established at locations B-40 and B-42, south and southeast of the main entrance to the cash register area of the main building.

Soils collected from each location were visually inspected for color quality and evidence of discoloration, and physically observed for the purpose of recording composition and noting odor, where distinctive. Samples were placed in sterile four-ounce glass jars and/or 40cc glass vials preserved with 5ml methanol in accordance with procedures specified for USEPA Method 5035A.

Water samples were collected utilizing a fresh pair of nitrile gloves, under low flow conditions by means of peristaltic pump and fresh disposable poly-tubing, after approximately 10 minutes, in order to permit suspended silt, where present, to be reduced.

Each sample was given a unique identifier number and placed in an iced cooler for sample preservation. A Chain of Custody was maintained in order to record details associated with the collection and handling of each sample. The remaining soil samples were retained by the laboratory for analysis in the event that the soil samples selected for laboratory analysis revealed elevated levels of constituents. Following the production of the initial Site sample results for soil, some follow-up laboratory analyses were requested for the subject Site, as of the date of this report.

Site Restoration:

Each borehole was completed with bentonite chips, and the final three to four inches were finished with concrete or asphalt. No landscape restoration was necessary.

SECTION III.
GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

Geologic Conditions:

The precise Property location is Latitude: North 46 34' 7.07" / West 120 27' 17.15 as determined by the Department of Ecology EIM database. The Site elevation is approximately 989 feet above mean sea level ("MSL"). The relevant US Geological Survey topographic sheet is the 2013 7.5-Minute Yakima West Topographic Quadrangle.

The Site lies lies above the western margin of the Yakima River flood plain within 1,700 feet of the main channel ofthe Yakima River, and only a few hundred feet from the westermost range of a series of ponds, wetlands, and side-channels associated with the broad braided river pattern typical of the Yakima River where it crosses broad valleys. It lies somewhat south of the center of a valley situated between the Ahtanum Ridge, rising over 1,200 feet approximately two miles to the south, and the Yakima Ridge, rising nearly 2,000 feet approximately three miles to the north.

Members of the Columbia River Basalt Group (CRBG), a series of folded horizontally deposited lava flows, underlie the basins and form the ridges and bluffs in the area. This valley, filled with fluvial and alluvial gravels and sands, is one of six geologic basins which lie between tectonically folded basaltic ridges aligned roughly west to east, along the western third of the Columbia River Basin. The site lies along the rising northern flanks of the Ahtanum-Moxee Syncline, whose east-west oriented axis lies at the deep central portion of the basin.

The According to the most current geologic map available, the subject property is underlain by Quaternary-Recent Undifferentiated Sedimentary Deposits ("Qsu"), including cobble- and boulder-laden sands and gravels such as those encountered during this investigation. These deposits, varying in thickness from a few feet to many hundreds of feet, are characterized as:

> Sedimentary Deposits - Undifferentiated (Qsu): "Recent stream alluvium and Pleistocene glacial and valley-train deposits. Strata are composed of silt, sand, and gravel, which in places exceed several hundred feet in thickness. Deposits partly fill all the valleys and structural basins and form the principal conduits carrying valley underflow. The porosity of these deposits probably ranges from 10 to 40 percent, and their permeability ranges from very low to very high. They provide a very large proportion of the effective ground-water storage that supplies the ground-water component of streamflow, and also serve a important aquifers."

Ibid. WSP 1595

In the vicinity of the Site, the thickness of the valley fill gravels is indicated as approximately 800 feet, where the uppermost bedrock unit is the Saddle Mountain Member of the CRBG.

These deposits are in turn underlain by the clay-rich deposits of the Miocene and Pliocene Ellensburg Formation, mapped as comprising the core of this east-west ridge, defining a portion of the northern flank of the Yakima Basin:

> *Ellensburg Formation* - "Undifferentiated (Te): "A thick sequence of stream- and lak-deposited silt, sand, and gravel which is composed chiefly of light-colored volcanic ash, pumice, and purple and gray hornblende andesite. The thickness of the Ellensburg Formation exceeds 1,000 feet in some of the structural basins. It has moderate to high porosity, and low to medium permeability, and providea a large amount of effective storage. Permeable strata form important aquifer.

Geologic Map of the Yakima River Basin, Washington, Water Supply Paper 1595, US Geological Survey, H.B. Kinnison and J.E. Sceva, 1963.

The average thickness of the Ellensburg Formation is 510 feet.

Hydrogeological Characteristics:

Groundwater at the subject Property was encountered during this investigation at depths between 11and 13feet bgs. Three groundwater monitoring weels were constructeed on site by the White Shield Company in 1999. Refer to Figure 3 for locations. Groundwater flow direction has been documented to the south-southeast as well as to the south-southwest. The baseline over which these wells are placed is broad, and these calculated flow directions may not accurately reflect the anticipated curvature of the flow lines from the eastward flow direction expected in areas to the west, to flow toward the southeast and ultimately to the south expected as the central Yakima River flood plain is encountered.

Limited diesel free product (1/8 inch measured in well) was recovered by means of a 1-liter Keck Product Recovery Canister from the downgradient well, MW-3, during the period between 2000 and May 2002, as documented in a Sage Earth Sciences, Inc. report attached to an Ecology letter dated February 4, 2009. A grab sample was collected by Aerotech staff from this well on August 9, 2016.

The general hydrogeologic character and variability within the several basins formed by the distinctive tectonic folding of the western Columbia River Basin is addressed in U.S. Geological Survey Scientific Investigations Report 2011-5152. In this semi-arid climate, many alternating segments of rivers and creeks maybe either losing or gaining water in seasonally dynamic exchange with underlying groundwater system, all dependent upon localized geologic conditions and other factors.

> "[The] net exchange of water for 46 stream sections investigated with seepage run ranged from nearly zero to 1,071 ft^3/s for28 gaining sections, and -3 to -242 ft^3/s for 19 losing sections. Gains are much more vigorous than the losses with 55 percent being larger than 3.0 (ft^3/s)/mi."

Map Showing Generalized Altitude of the Water Table in Six Structural Basins, Spring 2001, Yakima River Basin Aquifer System, Washington, United States Geological Survey Scientific Investigation Report 5152, J.J. Vaccaro, M.A. Jones, et all., 2009.

The segment of the Yakima River approaching the Site to the east is presumed to be a gaining river, with perhaps the exception of the arid summer months. However, micro-piezometer measurements conducted by the U.S. Geological Survey along the segment of the Yakima River adjacent to the subject Property indicated very slight downward vertical gradients approaching 0.04 feet per foot. If the river is gaining, groundwater flow would be expected to the south-southeast or the southeast, toward the river. If during the hot arid summer months the river is losing groundwater flow might be expected to the south-southwest. Perhaps consistent with this hypothetical dynamic, groundwater flow at the Site, based upon measurements at three wells, has deviated within this very range. However, available data is very limited. Waters and groundwater from the Yakima sub-basin are effectively funneled to the south through the narrow alluvial sand and gravel 'conduit' located above the CRBG bedrock, lying underneath the topographic gap in the Ahtanum Ridge after which the City of Union Gap is named.

The precise location of the downgradient and upgradient terminus of the diesel plume has not been defined. and additional exploration will be necessary to determine whether the plume extends to the Property perimeter or underneath Rudkin Road, adjoining to the southeast.

SUMMARY OF SAMPLE ACQUISITION

A total of 32 discrete soil samples and two groundwater grab samples were collected on November 29 and 30, 2016 at eleven soil boring locations. Water samples were collected from two temporary wells inserted in open boreholes at locations B-40 and B-42. Soil samples were collected at depths between 4 and 16 feet bgs. Visual or olfactory evidence of petroleum impacted soil was observed near the water table at depths between 11 and 14 feet at all four locations explored underneath the diesel fuel canopy, and at two of six locations explored in the downgradient direction southeast of the canopy area. Two groundwater samples were obtained from temporary wells established at locations B-40 and B-42, south and southeast of the main entrance to the cash register area of the main building.

SECTION IV.
ANALYTICAL RESULTS

Aerotech Environmental Consulting, Inc. performed a Limited & Targeted Phase III Subsurface Investigation on November 29 and 30, 2016, in the vicinity of the diesel fueling area, the Areas of Concern identified during a Phase II Investigation completed on September 1, 2016. Refer to Table 1 and Figure 3b and 3c for presentations of analytical results

The Limited and Targeted Phase III Subsurface Investigation produced the following results:

Diesel and Heavy Oils in Soil

A total of 32 discrete soil samples and two groundwater grab samples were collected on November 29 and 30, 2016 at eleven soil boring locations. Water samples were collected from two temporary wells inserted in open boreholes at locations B-40 and B-42. Soil samples were collected at depths between 4 and 16 feet bgs. Visual or olfactory evidence of petroleum impacted soil was observed near the water table at depths between 11 and 14 feet at all four locations explored underneath the diesel fuel canopy, and at two of six locations explored in the downgradient direction southeast of the canopy area. Groundwater samples were obtained from temporary wells established at locations B-40 and B-42, south and southeast of the main entrance to the cash register area of the main building.

Diesel fuel constituents were detected at depths of 10 to 14 feet bgs, at concentrations between 400 and 29,000 mg/kg, well above the most stringent Model Toxics Control Act ("MTCA") Cleanup Levels for soil. The axis of an estimated 60-foot wide diesel plume extends from the diesel fuel pump area southeast toward the nearby southeast driveway, and may potentially extend beyond the Property perimeter underneath Rudkin Road. Refer to Figure 3b. Concentrations of 29,000 mg/kg were documented near the eastern corner of the diesel fuel area, and concentrations of 9,900 mg/kg were observed within 45 feet of the center of the southeast driveway. The precise location of the downgradient and upgradient terminus of the diesel plume has not been defined. and additional exploration will be necessary to determine whether the plume extends to the Property perimeter or underneath Rudkin Road.

TPH-Gasoline, Benzene, Ethylbenzene, Xylenes, Toluene, and TPH-Diesel/Oil in Water

Diesel and gasoline constituents were not detected in groundwater samples collected south of the main building, at locations B-40 and B-42. These results suggest the absence of diesel and gasoline contamination underneath the main building.

APPLICABLE ANALYTICAL METHODOLOGIES AND PARAMETERS

The analysis parameters requested were chosen to provide a comprehensive characterization of the subsurface soils and/or water present at the Site Areas of Concern and to comply with State of Washington recommended analysis parameters.

Soil: **Diesel and Lubricant Range Organics**
State of Washington NWTPH-Dx/Dx Extended

Water: **Gasoline Range Organics & Benzene, Ethylbenzene, Toluene, and Xylenes**
State of Washington NWTPH-Gx/8021B

Water: **Diesel and Lubricant Range Organics**
State of Washington NWTPH-Dx/Dx Extended

Laboratory Analysis:

Laboratory analysis was provided by:

Advanced Analytical Laboratory, LLC
4078 148 Avenue NE
Redmond, WA 98052
425.702.8571 (office)
aachemlab@yahoo.com

STATEMENT OF QUALITY ASSURANCE

I have performed this Phase II Subsurface Investigation in accordance with generally accepted environmental practices, procedures, and regulatory requirements, as of the date of this Report. I have employed the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of this part. I have the specific qualifications based upon education, training, and experience necessary to plan and implement subsurface investigations.

STATEMENT OF THE LICENSED GEOLOGIST

As stipulated in the Regulatory Code of the State of Washington Title 18, Chapter 18.220, the undersigned is a licensed Geologist in the State of Washington, and has met the statutory requirements of RCW § 18.220.060 for such licensing including, but not limited to, educational requirements, work and field experience, examination proficiency, and acceptance by the State Licensing Board.

The undersigned Licensed Geologist has supervised the geological work performed as described in attached Report – a majority of said work being performed by employees of the firm which employs undersigned Licensed Geologist – as delineated in RCW Title 18, Chapter 18.220, Paragraph 190.

Signature of Licensed Washington Geologist:

Signature – James McDermott (License No. 3063)

DEFINITIONS SPECIFIC TO LIMITED & TARGETED PHASE II ASSESSMENT

Background Concentration..... the concentration of a target analyte in groundwater, surface water, air, soil gas, sediment, or soil at a referenced location near a release or potential release area under investigation, which is not attributable to the release under investigation. Background samples may contain the target analyte, due to either naturally occurring or manade sources, but not due to the release(s) in question. (See, E 1903-97, § 3.1.3).

Phase II Environmental Site Assessment.... This practice (ASTM E 1903-97, Reapproved 2002) defines a commercially practical process for sound Phase II investigation that includes sampling and chemical testing. Such Phase II investigation is performed, at a minimum, to confirm the actual presence of contamination in environmental media at a property where prior assessment had indicated that contaminants may occur due to releases or potential releases of substances to the environment at the property, or to demonstrate prior to property acquisition that contamination by targeted analytes is absent. (See, E 1903-97, § 1.1.1).

Phase II Environmental Site Assessment Limitations..... "This practice [ASTM E1903-97, Reapproved 2002] recognizes that the *Phase II ESA* process can be applied either to an overall assessment of a property with respect to all releases and potential releases at the property, or to an evaluation targeted to a specific release or potential release. It a property-wide assessment is not necessary to meet the particular *User* objective, then the Phase II investigation process described herein should be applied to generate sound information regarding the specific question of problem to be resolved. If a Phase II investigation does not address all releases and potential releases identified at a property, the report of the assessment must be denoted as a *"Targeted Phase II" Environmental Site Assessment*. [E 1903-97, § 1.1.3]"

Phase II Targeted Environmental Site Assessment.... This Phase II Site Assessment is "targeted" as defined by the ASTM *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, Designation E 1903-97 (Reapproved 2002); "an assessment performed in accordance with the process described in this [E 1903-97] practice, which addresses only certain *releases* or potential *releases*, or certain *target analytes*, at a property as selcted by the *User* but which does not address all *releases*, potential *releases*, and *target analytes*.[E 1903-97, § 3.1.43]"

Prior Knowledge.... "This Standard Practice [ASTM E 1903-97, Reapproved 2002] assumes ... that all reasonably ascertainable information, including but not limited to prior Phase I Environmental Site Assessment Reports, will be considered in conducting a Phase II ESA and interpreting its results. [E 1903-97, § 1.1.2]."

Targeted Analytes.... substances that have been released or potentially have been released to environmental media at the site, and which are of interest in the context of the particular Phase II ESA and its objectives, the presence of which will be sought and concentrations of which will be quantified through field screening or chemical testing. (See, E 1903-97, § 3.1.63).

REPORT ENDNOTES

1. All Appropriate Inquiry as defined in 40 Code of Federal Regulations 40 CFR Part 312.

APPENDIX

- Site Location and Photographs
- Project Contract Documents
- Boring Logs
- Analytical Results
- Chain of Custody

APPENDICES

SITE LOCATION AND PHOTOGRAPHS

Fig 1

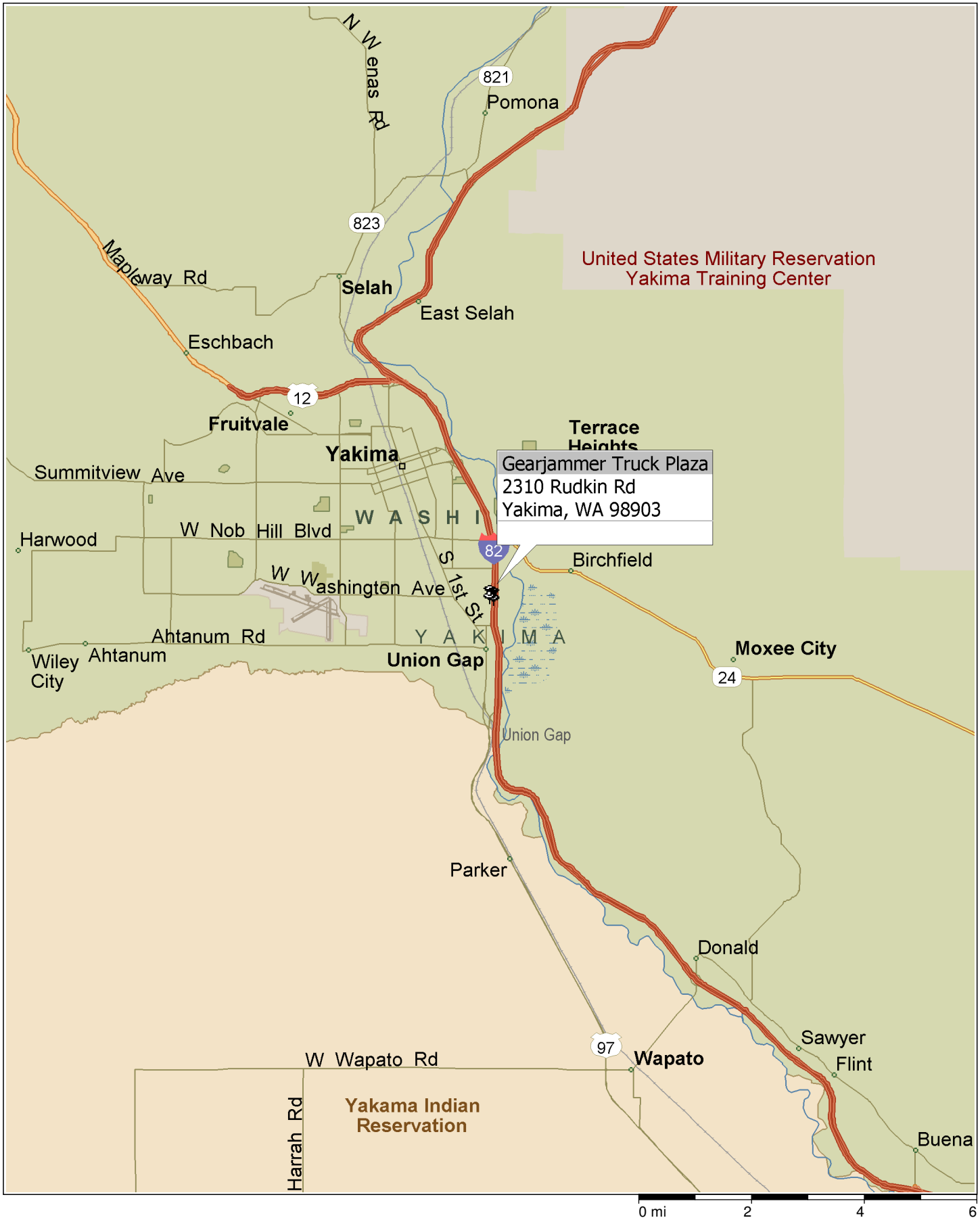
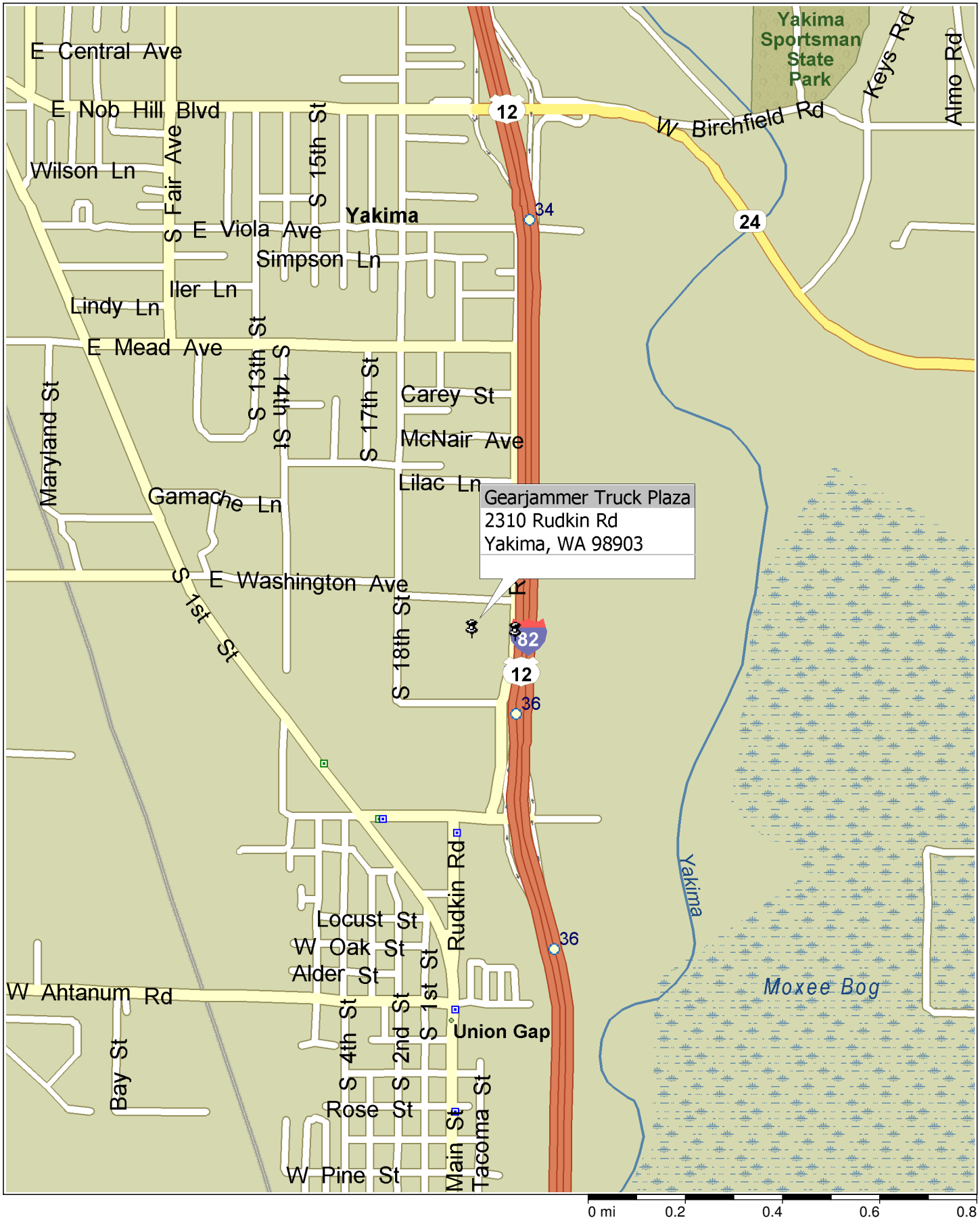


Fig 1b



PAGE 1: Gearjammer Plaza - 2310 Rudkin Rd, Yakima, Wa - Dec 2016 - PH 3 - B-42 (View NW)

B-43 (View NW)

B-44 (View NW)

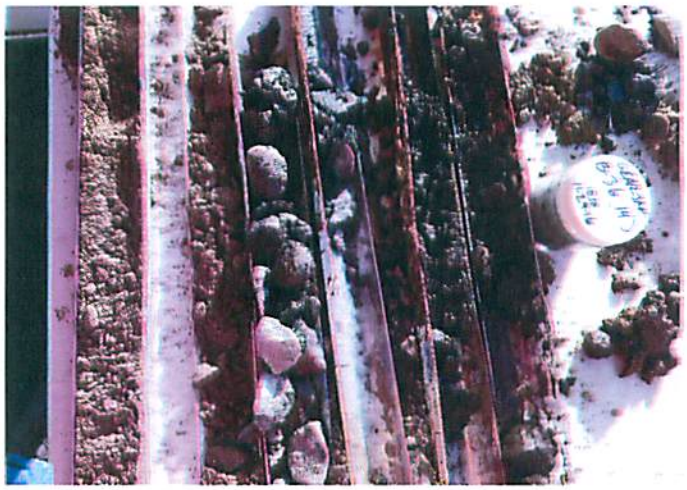
Locations of former fuel dispenser pumps - North tier (View NE)

Water, Air, Oil distribution system junction box - Area B-37 (View SE)

Water, air, oil distribution junction box. System long inactive.

PAGE 2: Gearjammer Plaza - 2310 Rudkin Rd, Yakima, Wa - Dec 2016 - PH 3 - B-36

Area B-36 - fuel spills (View NE) (29,000 mg/kg in soil at 11 ft bgs)



B-36 cores

B-37 cores

B-38 - soil vacuum activities (View NW)

B-39 (View east)

PAGE 3: Gearjammer Plaza - 2310 Rudkin Rd, Yakima, Wa - Dec 2016 - PH 3 - B-40 (W) Water sample

B-43cores

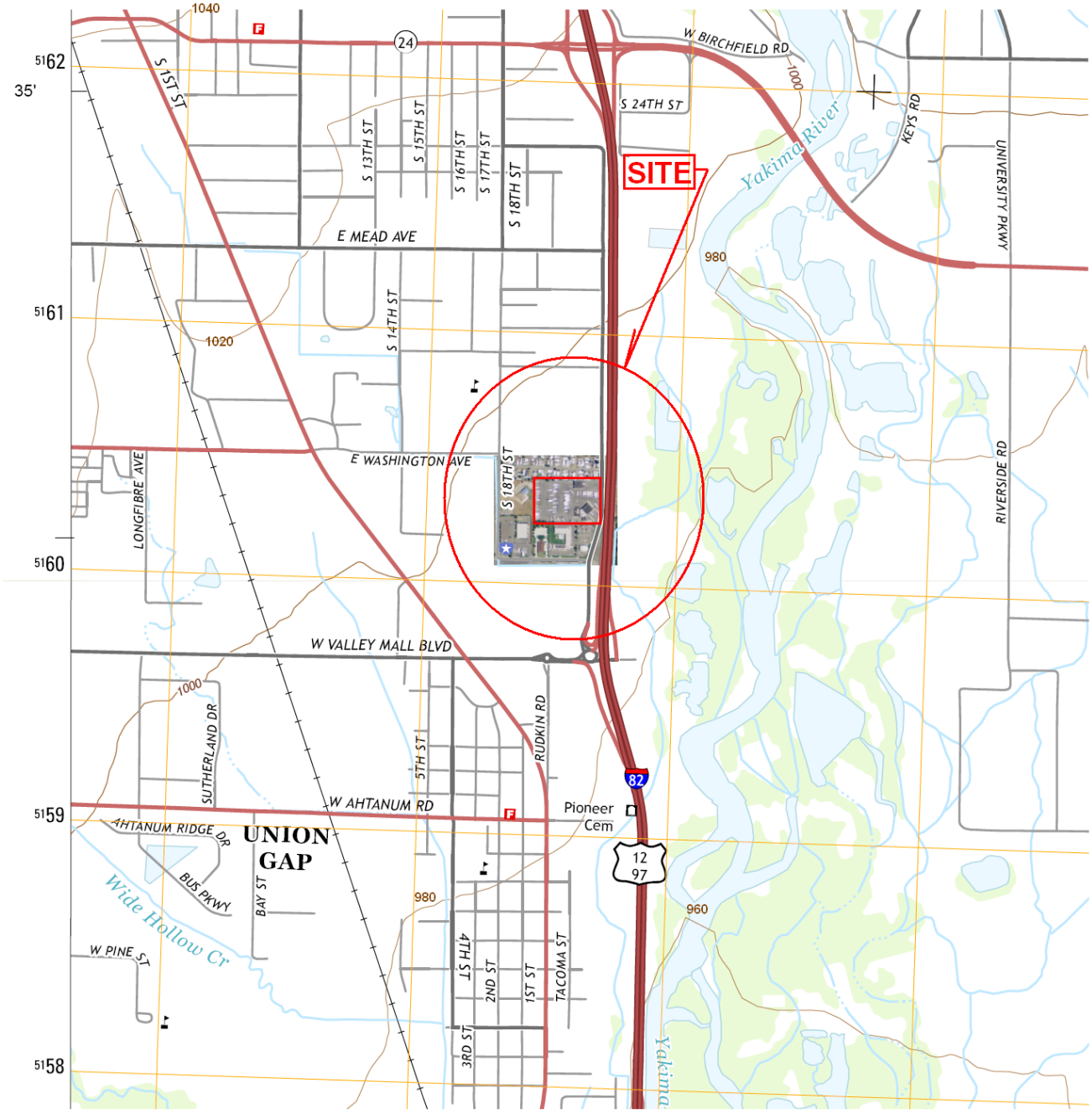
B-44 cores

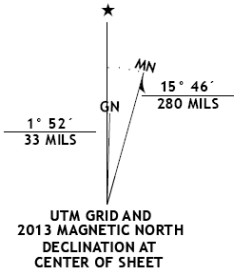
B-44 cores

B-45 (Viw west)

Area downgradient of Diesel Fuel Pump Canopy (View SW)

FIGURES





UTM GRID AND
2013 MAGNETIC NORTH
DECLINATION AT
CENTER OF SHEET

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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Seattle, Washington
www.AerotechEnvironmental.com

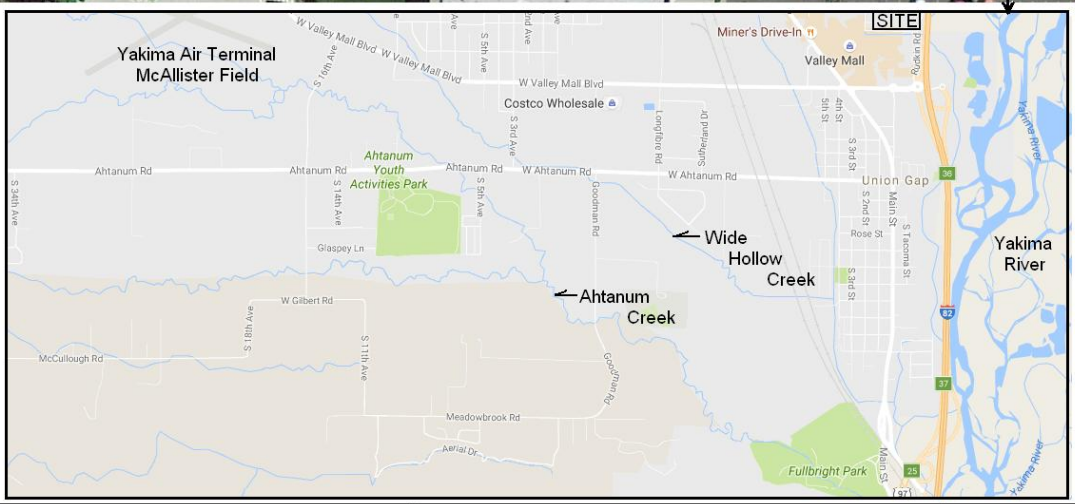
Drawing by McDermott : 24 Aug 2016

FIGURE 2

PHASE 2 INVESTIGATION

U.S. Geological Survey
7.5-Minute Topographic Quadrangle

GEARJAMMER TRUCK PLAZA
2310 Rudkin Road
Union Gap, Washington
VCP Project No.CE0312



N

100 Feet

Aerotech Environmental Consulting, Inc
13925 Interurban Avenue South, Ste. 210
Seattle, Washington
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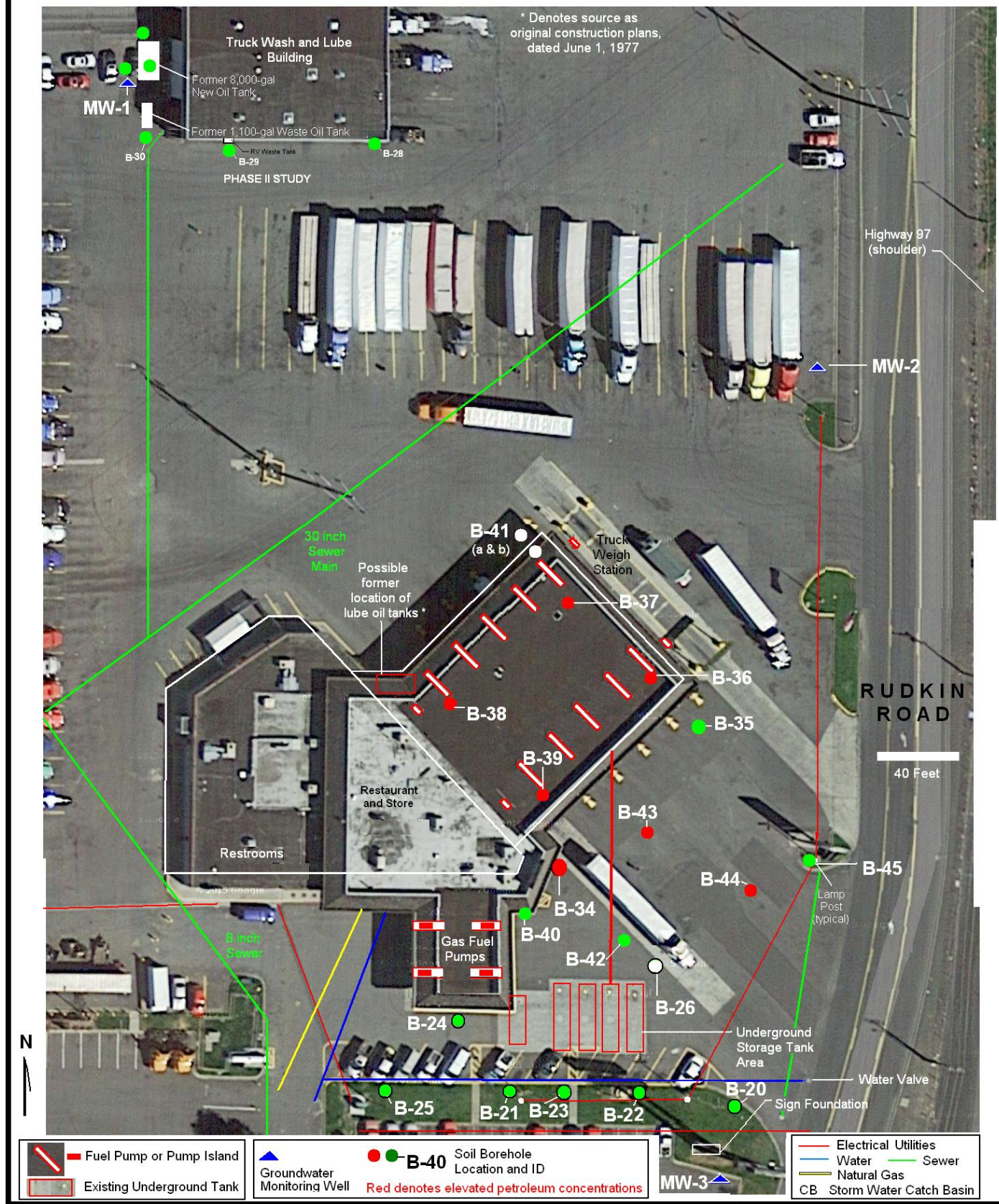
Drawing by McDermott : 24 Aug 2016 **FIGURE 2B**

PHASE 2 INVESTIGATION

Vicinity with Hydrologic Features

GEARJAMMER TRUCK PLAZA
2310 Rudkin Road
Union Gap, Washington
VCP Project No.CE0312



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Drawing by McDermott : 30 Dec2016

FIGURE 3

PHASE 3 INVESTIGATION BOREHOLE LOCATION MAP

GEARJAMMER TRUCK PLAZA
2310 Rudkin Road
Union Gap, Washington
VCP Project No.CE0312

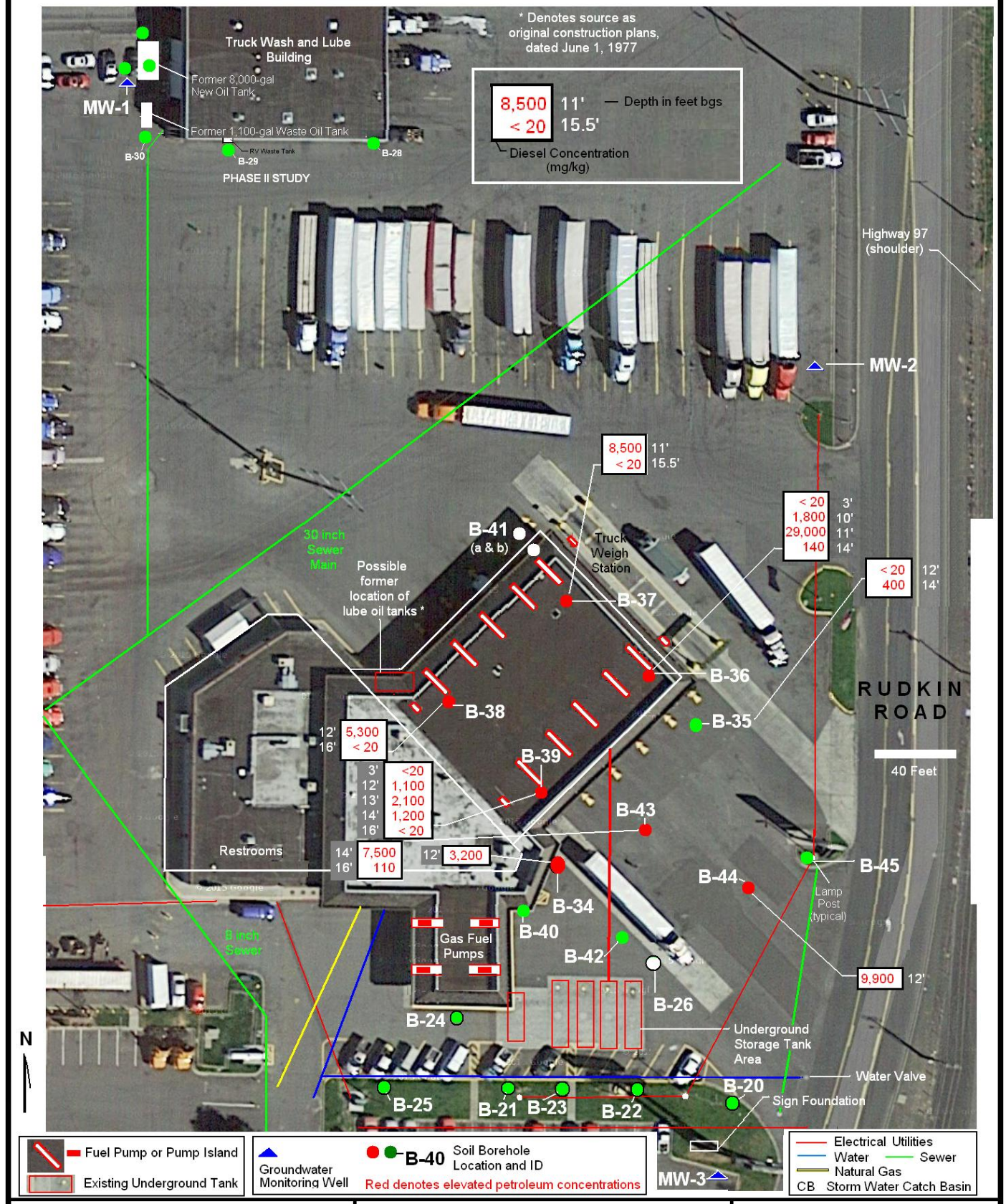

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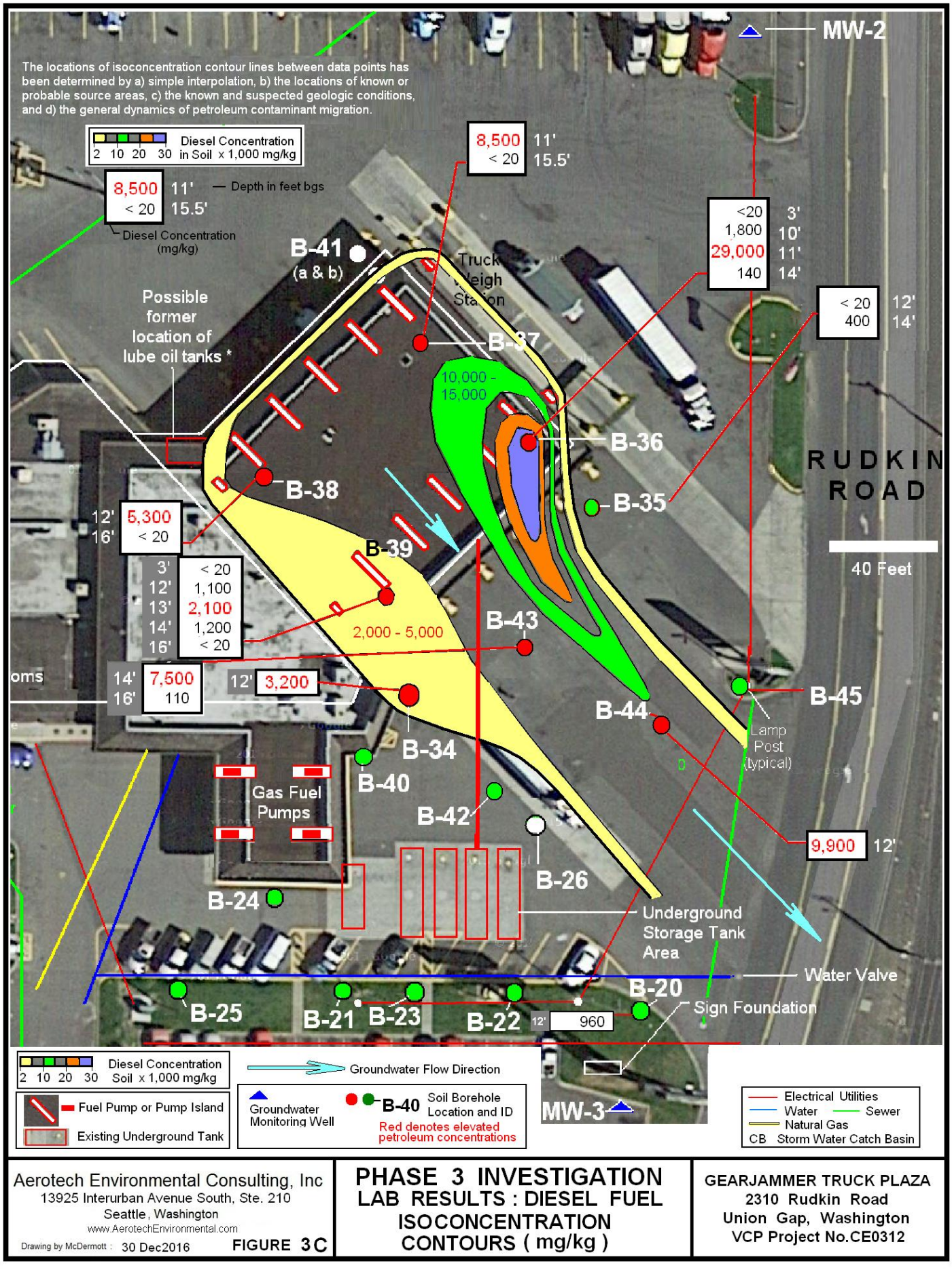
FIGURE 3B

PHASE 3 INVESTIGATION

LAB RESULTS : DIESEL FUEL CONCENTRATIONS (mg/kg)

GEARJAMMER TRUCK PLAZA
2310 Rudkin Road
Union Gap, Washington
VCP Project No.CE0312



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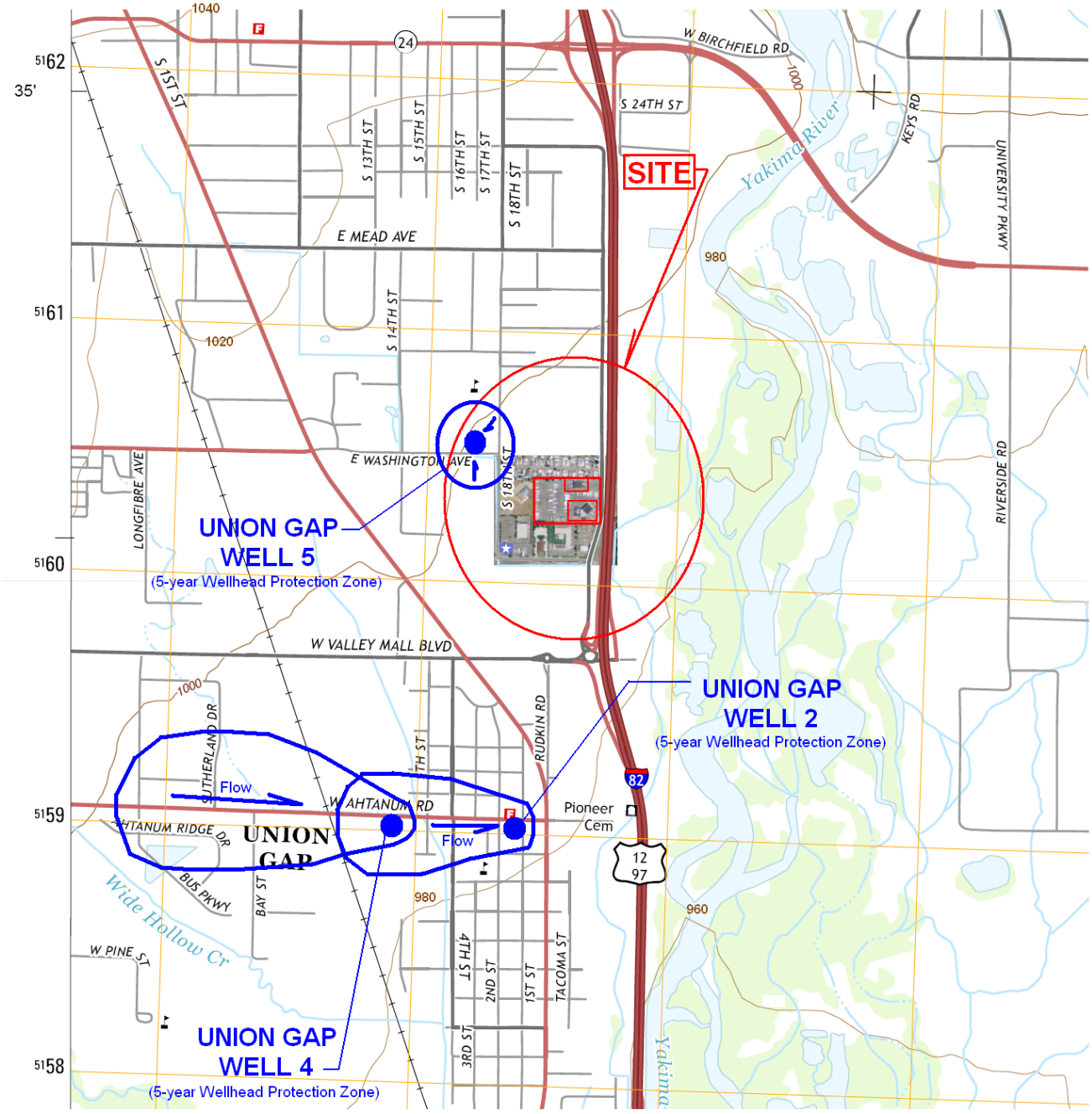
13925 Interurban Avenue South, Ste. 210
Seattle, Washington
www.AerotechEnvironmental.com
Drawing by McDermott : 30 Dec2016

FIGURE 3C

PHASE 3 INVESTIGATION
LAB RESULTS : DIESEL FUEL ISOCONCENTRATION CONTOURS (mg/kg)

GEARJAMMER TRUCK PLAZA
2310 Rudkin Road
Union Gap, Washington
VCP Project No.CE0312



15° 46′ 280 MILS
MN
GN
1° 52′ 33 MILS

UTM GRID AND 2013 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

1 0.5 0 KILOMETERS 1 2

1000 500 0 METERS 1000 2000

1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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Drawing by McDermott : 24 Aug 2016

FIGURE 5

NEARBY WELLHEAD PROTECTION ZONES

U.S. Geological Survey
7.5-Minute Topographic Quadrangle

GEARJAMMER TRUCK PLAZA
2310 Rudkin Road
Union Gap, Washington
VCP Project No.CE0312

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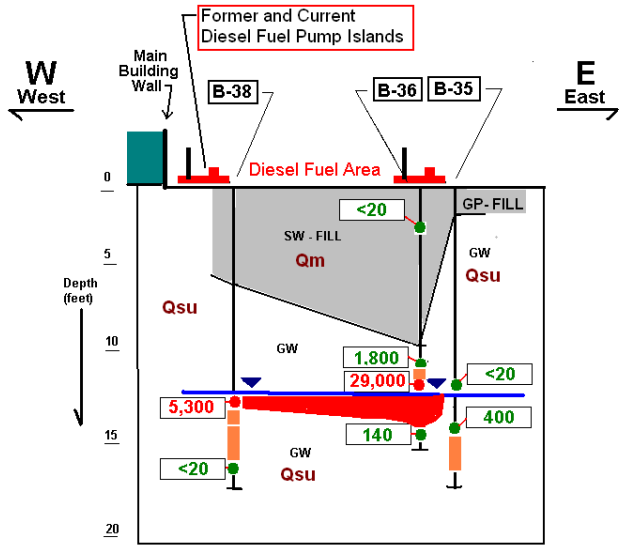
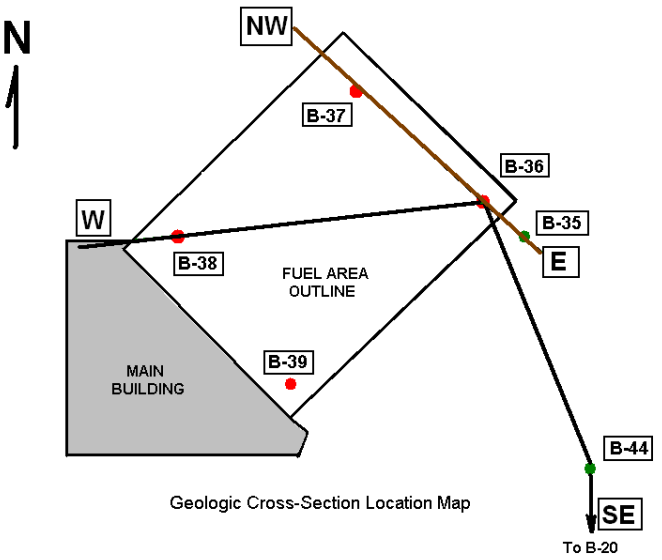
13925 Interurban Avenue South, Ste 210
Seattle, Washington
www.aerotechenvironmental.com

Drawing by R.H. Wigg
05 Jan 2017

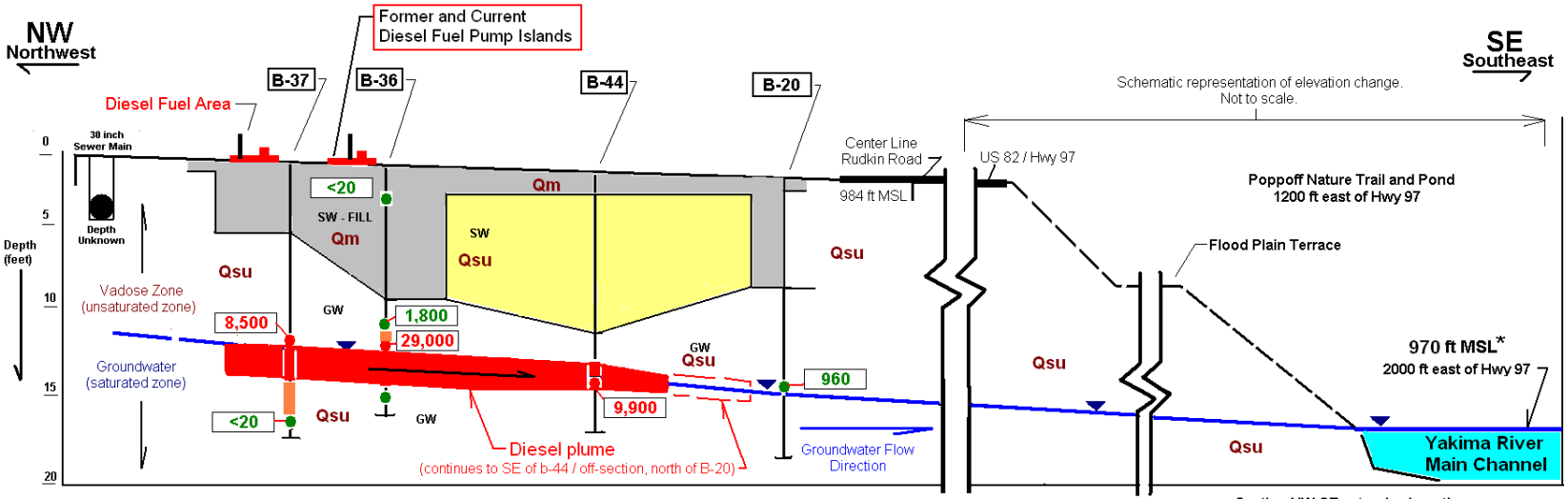
FIGURE 6
HYDROGEOLOGICAL CROSS-SECTIONS
WITH LAB RESULTS

GEARJAMMER TRUCK PLAZA
2310 Rudkin Road
Union Gap, Washington
VCP Project No. CE0312





Geologic Cross-Section Location Map



Section NW-SE extends along the axis of the diesel plume.

40 feet

29,000 Diesel Concentration in Soil (mg/kg)
Denotes Constituent exceedance
No constituent exceedances 960
Visual or olfactory indications of petroleum impacted soil (orange: minor)

Soil Type (Unified)		Geologic Unit
GW	Gravel, well graded	Qsu (Recent Alluvium)
SP	Sand, poorly graded	
SW	Sand, well graded	
GP	Gravel - Fill	Qm (manmade fill)
SW	Sand - Fill	
	Asphalt pavement	

Groundwater Depth in open Borehole
B-10 Borehole ID

TABLES

LABORATORY ANALYTICAL RESULTS

Gearjammer Travel Plaza, 2310 Rudkin Road, Union Gap, Washington
Phase II - Limited & Targeted Phase II Subsurface Investigation (Aug 2016) / Phase III Dec 2016

Aerotech Environmental Consulting, Inc
13925 Interubran Avenue South, Ste 210, Seattle, Washington

GASOLINE RANGE ORGANICS in SOIL August 2016 - Phase II Investigation

2,100 Above MTCA Method A 5.6 Below MTCA Method A

Analytical Results		Underground Tank, Gasoline and Diesel Fueling Areas								Truck Wash and Lube Building Area						
NWTPH-Gx / BTEX		**B-21 (8')**	**B-21 (12.5')**	**B-23 (12.5')**	**B-24 (4')**	**B-24 (13.5')**	**B-25 (8')**	**B-25 (12')**	**B-25 (14')**	**B-27 (12')**	**B-29 (14')**	**B-30 (12')**	**B-30 (14')**	**B-31 (12')**		**MTCA METHOD A CLEANUP LEVELS (SOIL)**
Matrix - Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Date collected	Reporting Limits	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16	08/09/16		
NWTPH-Gx, mg/kg	mg/kg															**mg/kg**
Mineral spirits/Stoddard	5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NW-TPH-mineral spirits	30
Gasoline	5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NW-TPH-Gasoline	30

BTEX 8021B, µg/kg	**mg/kg**	**Underground Tank, Gasoline and Diesel Fueling Areas**								**Truck Wash and Lube Building Area**						**mg/kg**
Benzene	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	Benzene	0.03
Toluene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	Toluene	7
Ethylbenzene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	Ethylbenzene	6
Xylenes	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	Xylenes	9
MTBE	0.100		<0.100			<0.100		<0.100	<0.100	<0.100			<0.100		MTBE	0.1
EDB	0.005		< 0.005			< 0.005		< 0.005	< 0.005	< 0.005			< 0.005		EDB	0.005
EDC	0.020		< 0.020			< 0.020		< 0.020	< 0.020	< 0.020			< 0.020		EDC	----
Chlorinated VOCs	Variable									ND	ND		ND		Chlorinated VOCs	Varies
PCB	Variable													ND	PCBs	Varies
PAH	Variable									ND			ND		PAH (total carcinogenic)	0.1
Lead	1.0		<1.0			<1.0			<1.0						Lead	250

DIESEL AND LUBRICANT RANGE ORGANICS in SOIL August 2016 - Phase II - Limited and Targeted Subsurface Investigation

Analytical Results		Underground Tank, Gasoline and Diesel Fueling Areas							Truck Wash and Lube Building Area												
NWTPH-Gx / BTEX		**B-20 (12')**	**B-20 (15')**	**B-22 (10')**	**B-23 (12.5')**	**B-23 (14')**	**B- 26 (3')**	**B-26 (8.5')**	**B- 27 (12')**	**B-28 (4')**	**B-28 (12')**	**B-29 (14')**	**B-30 (12')**	**B-30 (14')**	**B-31 (12')**	**B-31 (14')**	**B-34 (4')**	**B-34 (10')**	**B-34 (12.5')**	**B-34 (15')**	**MTCA Method A Cleanup Levels SOIL**
Matrix - Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Reporting																				
	Limits																				
Date collected		08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/10/16	08/11/16	08/11/16	08/11/16	08/11/16	

NWTPH-Dx, mg/kg

Matrix - Soil	mg/kg	Underground Tank, Gasoline and Diesel Fueling Areas							Truck Wash and Lube Building Area												mg/kg
Kerosene/Jet fuel	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	2,000
Diesel/Fuel oil	20	960	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	3,200	< 50	2,000
Heavy oil	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	1,500	< 50	< 50	< 50	< 50	2,000

DIESEL AND LUBRICANT RANGE ORGANICS in SOIL December 2016 - Phase III - Limited and Targeted Subsurface Investigation

Analytical Results		Diesel Fueling Area													Gasoline Pumps / Underground Tank Area						
NWTPH-Gx / BTEX		**B-35 (12')**	**B-35 (14')**	**B-36 (3')**	**B-36 (10')**	**B-36 (11')**	**B-36 (14')**	**B-37 (11')**	**B-37 15.5')**	**B-38 (11')**	**B-38 (16')**	**B-39 (3')**	**B-39 (12')**	**B-39 (13')**	**B-39 (14')**	**B-39 (16')**	**B-40 (3')**	**B-40 (12')**	**B-40 (13.5')**	**B-42 (16')**	**MTCA Method A Cleanup Levels SOIL**
Matrix - Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Reporting																				
	Limits																				
Date collected		11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/29/16	11/30/16	

NWTPH-Dx, mg/kg

Matrix - Soil	mg/kg	Diesel Fueling Area													Gasoline Pumps / Underground Tank Area						mg/kg
Kerosene/Jet fuel	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	2,000
Diesel/Fuel oil	20	< 50	400	< 50	1,800	29,000	140	8,500	< 50	5,300	< 50	< 50	1,100	2,100	1,200	< 50	< 50	< 50	< 50	< 50	2,000
Heavy oil	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	2,000

DIESEL AND LUBRICANT RANGE ORGANICS in SOIL December 2016 - Phase III - Limited and Targeted Subsurface Investigation

Analytical Results		Downgradient of Diesel Fueling Area					
NWTPH-Gx / BTEX		**B-43 (14')**	**B-43 (16')**	**B-44 (12')**	**B-45 (13.5')**		**MTCA Method A Cleanup Levels SOIL**
Matrix - Soil	Soil	Soil	Soil	Soil	Soil		
	Reporting						
	Limits						
Date collected		11/30/16	11/30/16	11/30/16	11/30/16		

NWTPH-Dx, mg/kg

Matrix - Soil	mg/kg	Downgradient of Diesel Fueling Area					mg/kg
Kerosene/Jet fuel	20	< 20	< 20	< 20	< 20		2,000
Diesel/Fuel oil	20	7,500	110	9,900	< 50		2,000
Heavy oil	50	< 50	< 50	< 50	< 50		2,000

LABORATORY ANALYTICAL RESULTS

Gearjammer Travel Plaza, 2310 Rudkin Road, Union Gap, Washington
Phase II - Limited & Targeted Phase II Subsurface Investigation (Aug 2016) / Phase III Dec 2016

Aerotech Environmental Consulting, Inc
13925 Interubran Avenue South, Ste 210, Seattle, Washington

2,100 Above MTCA Method A 5.6 Below MTCA Method A

GASOLINE, DIESEL AND LUBRICANT RANGE ORGANICS in WATER Aug 2016 - Phase II and Dec 2016 Phase III Investigations

Analytical Results		Truck Wash and Lube Building Area				Diesel / Gasoline Fueling Area			
NWTPH-Dx, mg/L		**W-B-27**	**W-B-29**	**W-B-31**	**MW-3**	**B-40-W**	**B-42-W**		**MTCA Method A Cleanup Levels WATER**
Matrix Water	Water	Water	Water	Water	Water	Water	Water		
	Reporting Limits								
Date collected		8/10/2016	08/10/16	08/10/16	08/09/16	11/29/16	11/30/16		
	mg/L								**mg/L**
Kerosene/Jet fuel	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	Kerosene/Jet fuel	0.500
Diesel/Fuel oil	0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	Diesel/Fuel oil	0.500
Heavy oil	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	Heavy Oil	0.500
NWTPH-Gx, mg/L		**W-B-27**	**W-B-29**	**W-B-31**	**MW-3**	**B-40-W**	**B-42-W**		**mg/L**
Mineral spirits/Stoddard	0.100			< 0.100		< 0.100		Mineral spirits/Stoddard	0.800
Gasoline	0.100			< 0.100		< 0.100		Gasoline	0.800
BTEX 8021B, mg/L	**mg/L***								**mg/L**
Benzene	0.001			< 0.001		< 0.001		Benzene	0.005
Toluene	0.001			< 0.001		< 0.001		Toluene	1.000
Ethylbenzene	0.001			< 0.001		< 0.001		Ethylbenzene	0.700
Xylenes	0.001			< 0.001		< 0.001		Xylenes	1.000
VOCs	Varies	ND		ND				Chlorinated VOCs	Varies

* NOTE: BTEX compounds are presented here as mg/kg rather than ug/kg.

Bold Red denotes samples exhibiting concentrations exceeding State of Washington MTCA Method A Cleanup Levels
Sample Depth is indicated in Sample ID in units of feet below ground surface (bgs), within parentheses; Example: "B-21 (14')" = B-21 at 14 ft bgs
* State or Oregon RBCs (Risk-Based Concentrations) ND= No listed compound detected at or above Lab RLs

RED SHADING:	Above MTCA Method A Cleanup Level
GREEN SHADING:	Below MTCA Method A Cleanup Level
NO SHADING	Constituent was not detected at or above the indicated lab reporting limit
GRAY SHADING	Not analyzed

mg/kg - milligrams per kilogram (ppm) mg/L- miligrams per liter (ppm)
Reference: *Guidance for Remediation of Petroleum Contaminated Sites* , State of Washington Department of Ecology, Revised 2016

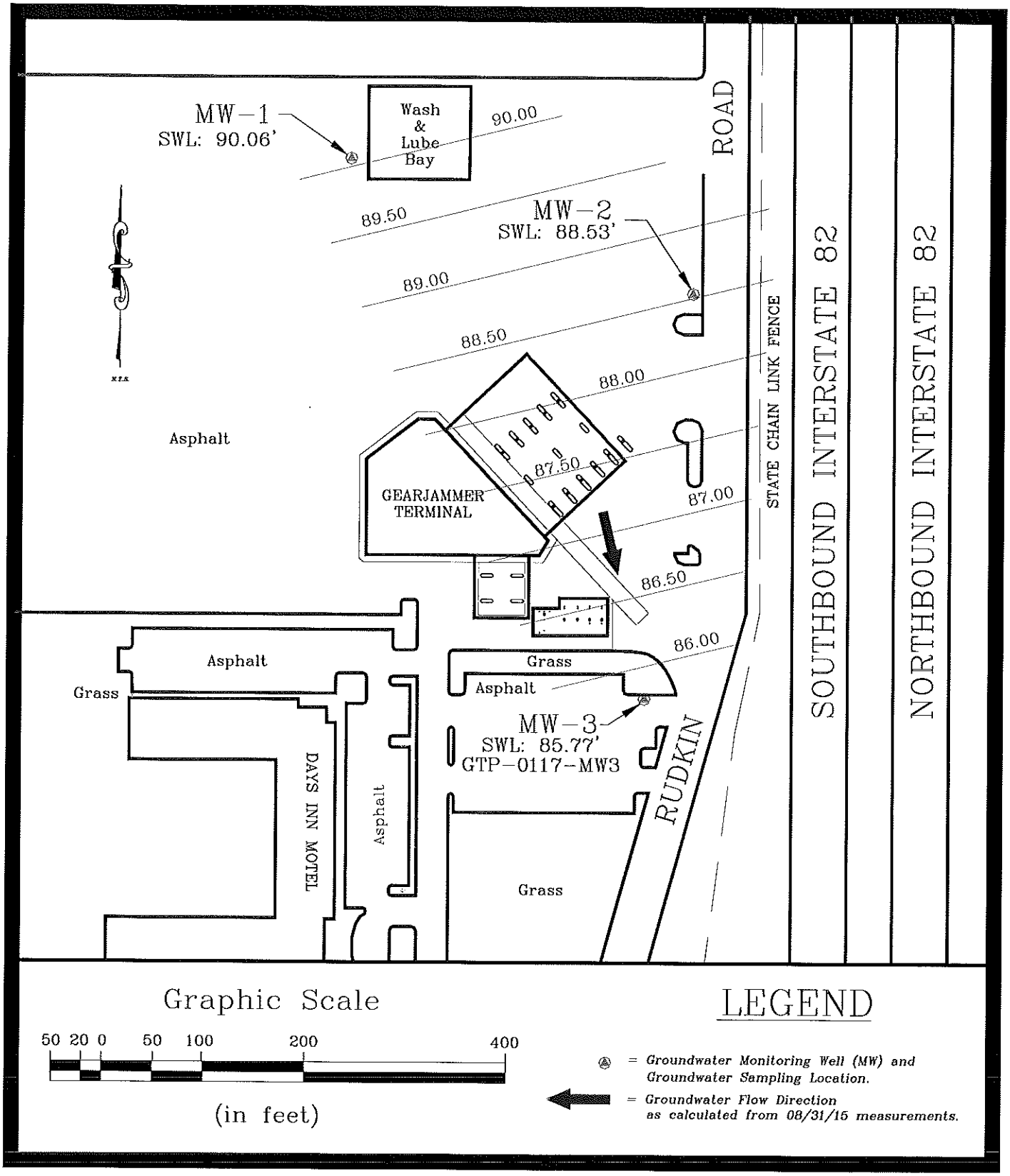


Figure 1. Groundwater Sampling Location & Water Table Contours on August 31, 2015

PROJECT CONTRACT DOCUMENTS

ENVIRONMENTAL CONTRACTOR'S CERTIFICATION

Gearjammer Truck Plaza
2310 Rudkin Road
Union Gap, Washington 98903

1. Contractor's Name: Aerotech Environmental Consulting, Inc.

2. Contractor's Address: 13925 Interurban Avenue South, Suite 210, Seattle, Washington 98168

3. Name and title of person completing this certification: Alan T. Blotch / President

4. Answer the following questions about each employee that contractor will have perform the assessment or prepare the report showing the results of the inspection:

   a. Name and Title of Employee: Alan T. Blotch – Environmental Professional
   b. Length of experience doing environmental assessments: 32 years
   c. Education degrees received: Masters of Business Administration
      Juris Doctor – Environmental Law
   d. Relevant training received: ASTM E50 Environmental Assessment Committee Meetings

5. Identify any certifications and approvals issued to contractor pursuant to an official Federal, State of local program or policy to conduct environmental assessments: Registered Environmental Assessor
   Issued by State of California

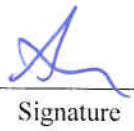
6. Describe the generally recognized standards which the contractor will use to perform the assessment.
   Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (ASTM E 1903)

7. Disclose the nature of any previous environmental inspections contractor has ever performed for the Owner of the property: Phase I Environmental Site Assessment

8. Disclose the nature of any affiliation or association contractor now has, or ever had, with the above referenced seller of the property, of the above referenced buyer of the property: N/A

9. Describe the liability insurance carried by contractor to cover claims in the event that ir fails to discover adverse environmental conditions during an environmental inspection.
   Professional Errors & Omissions Coverage $1,000,000 / claim and $1,000,000 aggregate liability

THE UNDERSIGNED HEREBY CERTIFIES, UNDER PENALTY OF THE CRIMINAL AND/OR CIVIL PENALTIES IN 18 U.S.C. § 1001 FOR FALSE STATEMENTS TO THE UNITED STATES GOVERNMENT, THAT THE ABOVE INFORMATION IS TRUE AND CORRECT.



Signature

01.05.17

Date

CURRICULUM VITAE

James McDermott

State of Washington Licensed Professional Geologist No. 3063

Mr. McDermott has 15 years experience in small business, and 9 years experience in environmental consulting with increasing scope, responsibility, innovation and effective results involving commercial and industrial properties spanning the country from the upper Midwestern states within glacial, alluvial or coastal geologic/hydrogeologic settings to complex bedrock, volcanic and glacial/fluvial settings in the northern Rocky Mountain states, the Pacific Northwest and Alaska. He has conducted field work and mapping in mountainous terrain in northern Wyoming and in central Utah where he has published: Utah Geologic Survey Geologic Quadrangle (Chriss Canyon 7.5 min.). These projects included extensive sampling of soils, rock, surface waters, groundwater, limited submarine sampling, soil borings, monitoring well installations, soil vapor extraction wells and systems, and dual-phase extraction and incineration. He is proficient in the application of aerial photographs, satellite imagery and on-line tools, and has limited surveying experience. His work has included compliance activities involving Superfund Sites, and waste remediation sites, as well as Phase I Environmental Site Assessments, Phase II Subsurface Investigations, hydrogeologic studies, pump tests, remediation system design, and groundwater monitoring. His work has required a familiarity with ASTM Phase I and Phase II Protocols, and other relevant ASTM Protocols as well as USEPA, CERCLA, RCRA regulations. He is familiar with Washington State MTCA regulations (hazardous assessments and independent remedial actions), as well as State of Oregon Risk Based Standards. His academic background has included work in organic chemistry and chemical engineering as well as an undergraduate engineering physics and calculus sequence.

Education	University of Illinois - Urbana, IL – BSci Geology – 1984 (Field Mapping: Sheridan, WY)
	Northern Illinois University - DeKalb, IL – Graduate research/Published USGS Map, Utah).
Publications	Chriss Canyon 7.5-Min. Geologic Quadrangle, Utah, Coauthor, UGS Map 185, 2003
Professional History	Aerotech Environmental Consulting, Inc. Hydrogeologist/Environmental Professional (2011-Present)
	James McDermott Consulting, Proprietor, Web Design-IT (1995-2010) (Including work with Bank One, Xerox, and IGO Cars)
	Earthscience Consulting, Proprietor, Hydrogeologist (1993-1994)
	ATEC Environmental Associates, Inc., Hydrogeologist (1991-1993)
	EIS Environmental, Inc., Staff Geoscientist (1989-1991)
Certifications	OSHA 40-hr Hazwoper, 8hr Refresher (2013)
	Participation Certificate: Chlorinated Solvent Remediation - Sequential In-Situ Chemical Oxidation and Enhanced Anaerobic Biodegredation.
Organizations & Memberships	Geological Society of America – Cordilleran Section, Rocky Mountain Section, Environmental and Engineering Geology Division, Hydrogeology Division, Structural Geology and Tectonics Division.
Expertise	Mr. McDermott has performed over 150 Phase I and Phase II investigations including property transfers and LUST closures, conducted site reconnaissance, and prepared Phase I and Phase II Site Assessment reports. Phase II investigations included groundwater monitoring well design, installation and monitoring. He has participated in the design and monitoring of several remediation systems installed at selected Phase II project sites, contributed to RCRA landfill compliance monitoring projects and often the associated subsurface investigation and planning. He managed and planned a large number of these projects, implemented the investigations,

created both preliminary and final reports, and defined and implemented the additional investigation where required.

USGS GEOLOGIC MAPPING PROGRAM (Utah Geological Survey): He has contributed to the study and mapping of geologic units as a part of the related US Geological Survey program to complete national coverage of geologic maps at the 1:24,000 scale. He has mapped intrusive and volcanic bodies, faults, landslide hazards, mineral deposits, hydrothermal alteration, and springs. He has integrated data such as petroleum exploration well logs (gamma/SP), aerial and satellite imagery.

SUPERFUND SITE INVESTIGATIONS : He has performed subsurface characterization and hydrogeological assessments including the assembly and interpretation of soil boring and laboratory data, monitoring well design, well installation and groundwater monitoring well sampling plans.

RCRA COMPLIANCE : He has participated in the subsurface characterization and hydrogeological assessments on RCRA sites and has contributed to research and evaluation of previous investigations as well as pertinent public records.

UST SITE CHARACTERIZATION & REMEDIATION: He has performed Phase I, Phase II investigation, and planned and participated in successful Phase III remediation projects, including the management and on-site supervision of the removal of tanks at a 40-unit, 25,000 gallon pre-WWII aircraft engine tank farm site. Contaminants included fuels, solvents and lubricants, DNAPLs. He has performed numerous subsurface characterization and hydrogeological assessments including soil borings, split spoon, cores, monitoring well design and installation, remediation sampling, monitoring, pump testing, modeling /analysis.

REAL ESTATE TRANSFERS: He has performed Phase II Subsurface investigation / preliminary hydrogeological evaluations for the purpose of property transfers for lenders, property owners and prospective buyers.

GEOPHYSICAL SURVEYS: He has participated in the performance of a groundwater investigation for the Illinois Geological Survey designed to locate and define gravel channel aquifers in buried bedrock valleys.

BIOREMEDIATION APPLICATIONS: He has participated in a seminar devoted to groundwater bioremediation with particular attention to chlorinated solvents and the use of in-situ chemical oxidation and enhanced anaerobic biodegradation. This technique is being applied to contaminated industrial properties in Washington state.

Notable Projects and Innovations

His subsurface investigation experience has also included field studies and reports on projects such a Superfund property in an industrial park, several RCRA landfill compliance projects, a large underground tank farm (over 40 25,000-gal. tanks and a great variety of fuels, solvents and lubricants) at the location of a former WWII-era aircraft engine plant, a contaminant incineration remediation project at a major LUST site located within a sensitive urban area, the mapping and excavation of over 20,000 cubic yards of contaminated fluvial and alluvial sands in an aging 19th – 20th century riverside industrial complex, landslide mapping, risk assessment and an aquifer mapping project for a State Geological Survey.

Innovations and improvements he has introduced during his environmental consulting career

have included the composition and refinement of numerous Standard Operating Procedures including those related to monitoring well design and encompassing equipment maintenance, calibration and operation. An innovation at the time and place, he initiated the routine incorporation of documentation and analysis of utility and transportation conduits (sewer, storm water and tunnel plans) in considering groundwater and contaminant flow dynamics, and their potential as primary or secondary conduits for the transport of contaminants in groundwater or in surface runoff for Phase I, Phase II and other investigations. For example, in one case in the central Chicago business district where flammable vapors were reported in the basement of a landmark building, he utilized both sewer design plans and subway depth measurements to trace probable vapor pathways and successfully divert the unproven assignment of primary responsibility from his client. In another case he devised and implemented a simple incinerator design change which greatly reduced time and cost associated with automated emergency systems shutdowns. In routinely evaluating previous studies prior to incorporation into his reports, he occasionally discovered and corrected errors in groundwater flow calculations or elevation data. He discovered forged soil boring logs, accepting no external material without some verification where the economic and legal concerns of a client might be jeopardized.

Small Business Experience

He has fifteen years experience operating a web design and computer consulting business as a sole proprietor with several staff, meeting the unique needs and budgets of the small business and mid-sized business community, employing web design and marketing to increase the profits a of one small business by over 1000 percent.

SOIL BORING LOGS

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MONITORING WELL ID: **BORING LOG #: B-20** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 4 ft East of 50 ft sign + 2 ft south of curb

Borehole Area (AOC): South of Tank Area- landscapred are north of 50 ft + sign

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Logged by: J. McDermott: Boring Depth:15.5 feet

GW Encountered: ᴎ YES Static GW Level: 12 ft

Notes:

Approx. Surface Elevation:985 ft MSL
Airknifeto 6 ft 0750-
Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Lawn / limited topsoil.	
1							SM		
								FILL- SAND, very fine, with 25-40 percent silt, moist, soft, grayish brown. At 2 ft: 1 ft layer of 2 to 6 inch subrounded cobbles/gravel. Large cobble or boulder at 4.5 ft - cannot remove. No foul odor.()	
2					Air Knife		GP		
3								Air knife to 4.5 ft - sample collected by auger at 3-4 ft interval	
4		LAB					SM		
		0.0							
5							GP	Large cobble(s) Air knife 'refusal' 0850	
								FILL - SAND - fine to very fine, poorly graded, some silt (15-20 percent), little small to large subrounded gravel, medium brown, slightly moist, soft. No foul odor.	
6									
		0.0							
7							GW	GRAVEL (75 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray, dry. No foul odor.	
8									
								Slough - pushed cobbles	
9									
10									
							GW	GRAVEL (80 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray, dry.Wet at 12 ft No foul odor.	
11									
		0.0							
12		LAB							
		17							
13									
14							GW	Same as above. Wet. Slight petrol odor at 12.5 -13.5	
15		1.1							
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-1** **Page 2 of**

Project Name:

Project Number:

Drilling Information

Drilling Contractor:

Logged by:

Start Date: End Date:

Depth (ft)	Groundwater		Visual or Olfactory Evidence	Blow Counts	Recovery		**USCS** Classification	Soil Classification/ Description **UNIFIED SOIL CLASSIFICATION SYSTEM EXPLANATION**	Well Construction		
							GW	**GRAVELS**, well-graded* OR Gravel+Sand mix, little-no fines			
							GP	**GRAVELS**, poorly-graded* OR Gravel+Sand mix, little-no fines			
							GM	**GRAVELS**, silty OR Gravel-sand-silt mix			
							GC	**GRAVELS**, clayey OR Gravel-sand-clay mix			
							SW	**SAND**, well-graded OR **Gravelly Sands**, little-no fines			
							SP	**SAND**, poorly-graded OR **Gravelly Sands**, little-no fines			
							SM	**SAND**, silty OR Sand-silt mix			
							SC	**SAND**, clayey OR Sand-clay mix			
							ML	**SILT**, inorganic (very fine sands, rock flour, silty or clayey fine			
								sands) OR Clayey silts with slight plasticity			
							CL	**CLAY**, inorganic, low-med plasticity (gravelly, sandy, silty, lean)			
							OL	**SILT**, organic, AND **SILT-CLAY**, organic, low plasticity			
							MH	**SILT**, inorganic (micaceous or diatomaceous fn sndy/silty soils)			
								OR SILTY SOILS, elastic SILTS			
							CH	**CLAY**, inorganic, high plasticity, fat clays			
							OH	**CLAY**, organic, med-high plasticity OR Organic SILTS			
							PT	**PEAT** and other highly organic SOILS			
								Glacial Till - High density, USCS/color indicates grain size			
								* **Terminology clarification**: The term "**Well graded**" is a synonym for "**Poorly sorted**," both meaning that a wide range of particle sizes are present. The former term is employed in geotechnical descriptions, while the latter is preferred by the USDA in characterizing topsoils and subsoils.			

CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS)

UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)			
SILTS AND CLAYS Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

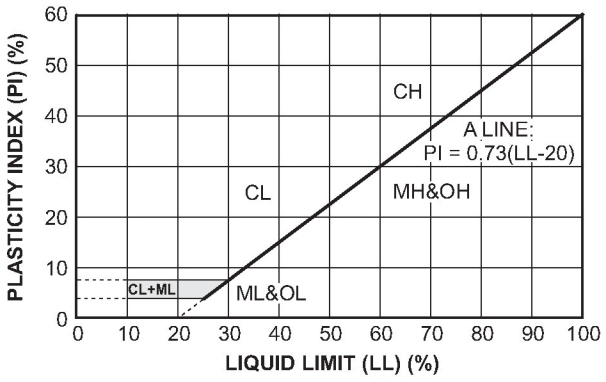
LABORATORY CLASSIFICATION CRITERIA

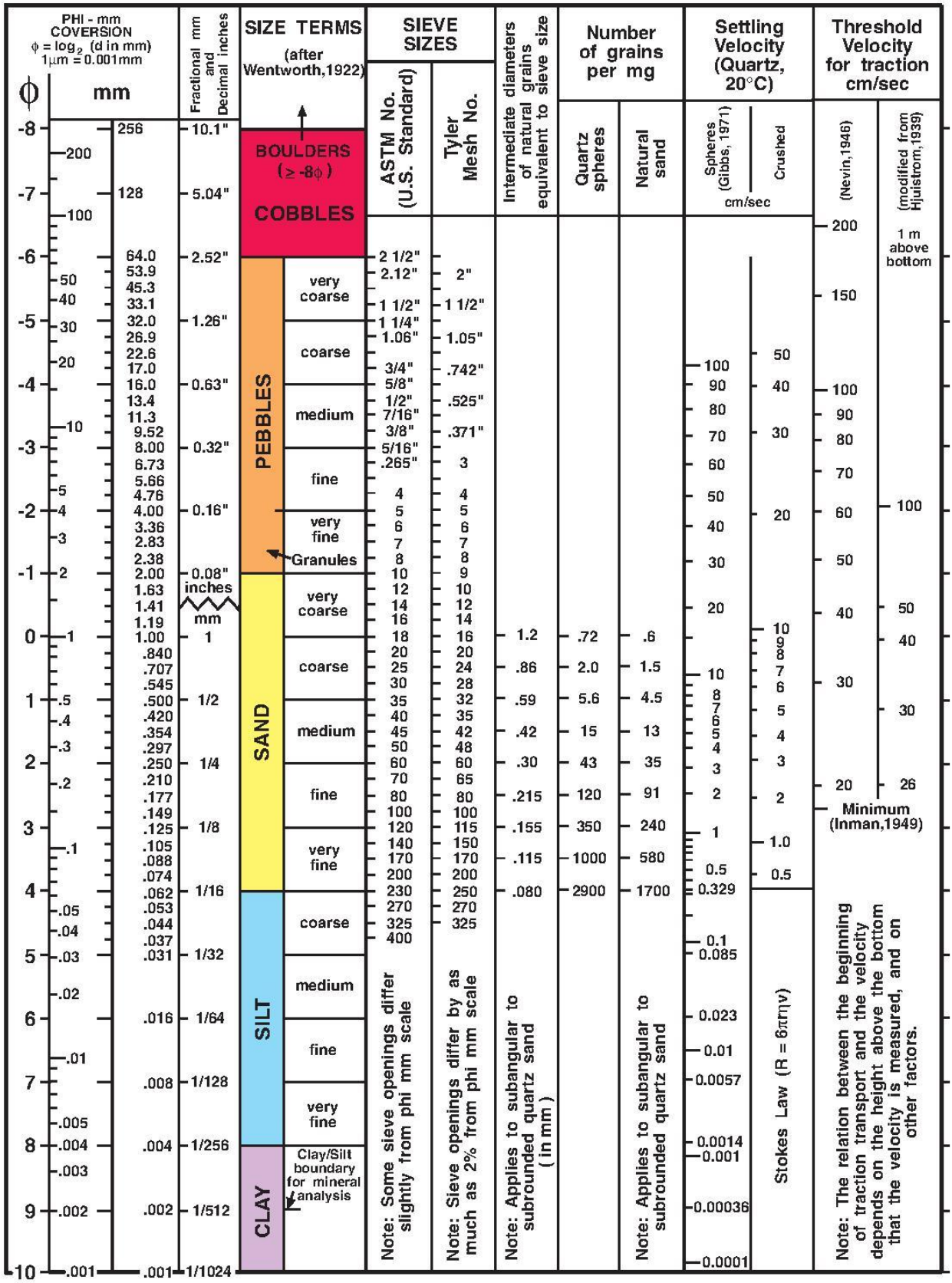
GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
GP	Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4	Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols
GC	Atterberg limits above "A" line with P.I. greater than 7	
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
SP	Not meeting all gradation requirements for GW	
SM	Atterberg limits below "A" line or P.I. less than 4	Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
SC	Atterberg limits above "A" line with P.I. greater than 7	

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

Less than 5 percent ..... GW, GP, SW, SP
More than 12 percent ..... GM, GC, SM, SC
5 to 12 percent ..... Borderline cases requiring dual symbols

PLASTICITY CHART





US Geological Survey

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MONITORING WELL ID: **BORING LOG #: B-21** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: Borehole Location: 107 ft West of 50 ft sign + 2 ft south of curb

Borehole Area (AOC): South of south pump island are - SSE of SE Pump No. 6 on lawn

Logged by: J. McDermott: Boring Depth: 16 feet

GW Encountered: ☒ YES Static GW Level: 12 ft

Notes:

Approx. Surface Elevation:985 ft MSL

Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Landscaped lawn area	
1							SP		
							SM	FILL - SAND - fine to very fine, poorly graded, some silt (15-20 percent), little small to large subrounded gravel, medium brown, slightly moist, soft. No foul odor.	
2									
3		LAB							
4		0.4							
5		0.0					SP	FILL - SAND, fine to med, mod grading, trace silt and coarse to very coarse sand, little small to large subrounded gravel, dry. No foul odor.	
6								Cobble/gravel driven to 7 ft - no recovery	
7								Offset 1.5 ft south- sample recovered 6-8 ft	
		LAB							
8		0.0					GW	GRAVEL (75 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, brown, dry. No foul odor.	
9							GW		
								GRAVEL (50 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, medium brown, brown dry. No foul odor.	
10							GW		
11		0.5						Same as above. Wet at 12.2 ft	
12		LAB					GW		
13									
14								GRAVEL (80 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, medium to dark brown, dry. No foul odor.	
15							GW		
		LAB							
16		0.0							
17									
18								Bottom of borehole at feet	
								Groundwater encountered at feet. No well installed.	
19								Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-22** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: Borehole Location: 43 ft West of 50 ft sign + 2 ft south of curb

Borehole Area (AOC): South of Tank Area

Logged by: J. McDermott: Boring Depth: Refusal at 11 feet

GW Encountered: NO Static GW Level:

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation:985 ft MSL

Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Lawn	
1							SM		
								FILL- SAND, very fine, with 25-40 percent silt, moist, soft, grayish brown. At 2 ft: 1 ft layer of 2 to 6 inch subrounded cobbles/gravel. Large cobble or boulder at 4.5 ft - cannot remove. No foul odor.()	
2		2.9			Air Knife		GP		
3								Air knife to 5.5 ft - sample collected by auger at 3-4 ft interval	
								Black organic seam at 2 ft - approx 4 inch thickness	
4		LAB					SM		
5									
6									
								GRAVEL (85 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, brown, dry. No foul odor.	
7		0.0					GW		
8									
9		LAB					GW	Same as above. Dry. No foul odor.	
10		0.0							
11		0.0					GW	Same as above. Medium to dark brown, dry. No foul odor.	
		LAB							
12								Refusal atop large cobble at 11.0 ft	
13									
14									
15									
16									
17									
18								Bottom of borehole at feet	
								Groundwater encountered at feet. No well installed.	
19								Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-23** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: Borehole Location: 80 ft West of 50 ft sign + 2 ft south of curb

Borehole Area (AOC): South of Tank Area

Logged by: J. McDermott: Boring Depth:16.5 feet

GW Encountered: YES Static GW Level:12

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation:985 ft MSL

Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Lawn / topsoil	
1									
2					Air Knife			FILL - SAND, very fine, trace med-coarse, with silt (25 percent), dark brown, subrounded gravel (cobbles to 6 inch at 2 ft), slighly moist. No foul odor.	
3									
4									
5									
6								GRAVEL (85 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, brown, dry. No foul odor.	
7		LAB					GW		
8		0.0							
9							GW	Same as above. Dry. No foul odor.	
10		0.4							
11		0.3						Same as above. Dry, slightly moist at tip. No foul odor.	
12									
13		LAB					GW	Same as above. Wet below 12 ft. No foul odor.	
14		0.1 LAB							
15							GW	Same as above. Medium to dark brown. Wet. No foul odor.	
16		0.0							
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed. Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-24** **Page 1 of**

Project Name: Gearjammer Truck Stop

Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

1ft southof concrete pad, midway between pumps no 6 and no 8

Borehole Location: 27 ft east and 4 ft south of SE corner of South Pump Island Canopy

Borehole Area (AOC): South of vehicular fuel pump island area

Logged by: J. McDermott: Boring Depth: 13.5 feet

GW Encountered: YES Static GW Level: 12 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation:985 ft MSL

Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		**USCS** Classification	Soil Classification/ Description	Well Construction
								Lawn / topsoil	
1									
					Air	SP		FILL - SAND, very fine, with silt (30 percent), dark brown, subrounded	
2					Knife			gravel (cobbles to 6 inch at 2 ft), slighly moist. No foul odor.	
3									
		LAB							
4									
								GRAVEL (85 percent), small to large/cobbles, sand matrix is fine to very	
5								coarse, well graded, trace silt, brown, dry. No foul odor.	
		0.0							
6						GW		GRAVEL (75 percent), small to large/cobbles, sand matrix is fine to very	
7								coarse, well graded, trace silt, gray, dry. No foul odor.	
		LAB							
8		0.0							
9						GW		Same as above. Brown with gray. Dry.No foul odor.	
		0.0							
10									
11									
		0.0							
12		LAB				GW		Same as above. Brown with trace gray. Wet. No foul odor.	
13		0.0							
		LAB							
14									
15									
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

AEROTECH ENVIRONMENTAL CONSULTING
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MONITORING WELL ID: **BORING LOG #: B-25** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: Borehole Location: 170 ft West of 50 ft sign + 2 ft south of curb

Borehole Area (AOC): South of Tank Area

Logged by: J. McDermott: Boring Depth: 14 feet

GW Encountered: ᴎ YES Static GW Level: 12

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation:985 ft MSL

Start Date: 08-10-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Sod/Topsoil - 6 inches	
1		0.0							
2									
3					Air			FILL - SAND, with cobbles and silt, very fine to medium, moderately	
					Knife		SP	graded, (cobbles are subrounded), damp, dark brown, No foul odor.	
4		0.0		LAB					
5									
6									
7									
		LAB					GW	GRAVEL (85 percent), small to large/cobbles, sand matrix is fine to very	
8		0.0						coarse, well graded, trace silt, brown and gray, dry. No foul odor.	
9									
10									
							GW	Same as above. brown and gray. Dry, very moist to wet below 11.9 ft. No	
11		LAB							
12		0.0							
							GW	Same as above. brown and gray. Dry, very moist to wet below 11.9 ft. No	
13		LAB							
14		0.0							
15									
16									
17									
18								Bottom of borehole at feet	
								Groundwater encountered at feet. No well installed.	
19								Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-26** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 68ft SE of Restaurant sidewalk and 3 ft SW truck lane concrete pad

Borehole Area (AOC): Southwest of AMBest(easternmot)truck scale / concrete pad

Logged by: J. McDermott: Boring Depth: REFUSAL at 9.5 feet

GW Encountered: NO Static GW Level:

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation:985 ft MSL

Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement atop densely compacted angular sandy gravel.	
1									
2					Air Knife		SP	FILL -SAND, very fine, with silt (30 percent), dark brown, subrounded gravel (cobbles to 6 inch at 2 ft), slighly moist. No foul odor.	
3		LAB							
								FILL-GRAVEL, subrounded, with sand, very densely compacted,gray, dry. No foul odor.	
4									
								Pushing cobble/gravel - no recovery4.5 to 6	
5									
6								GRAVEL (90 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray, dry. No foul odor.	
7	0.0								
8	0.0							Same as above.Dry No foul odor.	
		LAB							
9	0.0							Same as above.Gray, dry, slightly moist at 9.1 ft. No foul odor.	
10								Refual at 9.5 ft	
11									
12									
13									
14									
15									
16									
17									
18									
19								Bottom of borehole at feet Groundwater encountered at feet. No well installed.	
20								Borehole completed with bentonite chips.	

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MONITORING WELL ID: **BORING LOG #: B-27** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 34 ft west and 11 ft south of SW Corner of Wash-Lube Bldg - S of Separator

Borehole Area (AOC): West of Truck Wash-Oil Change Area - 850 sq ft Concrete Oil-Water Separator

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Logged by: J. McDermott: Boring Depth: 14 feet

GW Encountered: YES Static GW Level:10.5 ft

Notes:

Approx. Surface Elevation:

Start Date: 08-10-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt pavement - 6 inch	
1		0.0					GP	FILL - Gravel, with silt and sand, medium, subangular, poorly graded, (sand is fine-grained), dry, dark brown, No foul odor.	
2									
3					Air Knife				
4		0.0		LAB			SP	FILL - SAND, with cobbles and silt, very fine, moderately graded, (cobbles are subrounded), dry, dark brown, No foul odor.	
5									
6									
7									
8		0.0							
9							GW	GRAVEL (90 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, brown, dry slightly moist at 10 ft. No foul odor.	
10		0.1							
11		LAB							
12		0.0					GW	Same as above, wet. No foul odor.	
13									
14		LAB 0.0							
15									
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed. Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-28** **Page 1 of**

Project Name: Gearjammer Truck Stop

Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location:6 ft east and 6 ft south of SE corner of wash lube bldg

Borehole Area (AOC): South of Tank Area

Logged by: J. McDermott: Boring Depth: 14 feet

GW Encountered: ᴎ YES Static GW Level: 11.5

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation: 989 ft MSL

Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt pavement - 4 inch	
1		0.0					GP	FILL - Gravel, with silt and sand, medium, subangular, poorly graded, (sand is fine-grained), dry, dark brown, highly compacted, No foul odor.	
2					Air Knife				
3									
4		0.0		LAB			SP	FILL - SAND, with cobbles and silt, very fine, moderately graded, (cobbles are subrounded), dry, dark brown, No foul odor.	
5									
6		LAB							
7		0.0					SP	FILL - SAND, very fine to fine, with medium, medium brown dry. No foul odor.	
8									
9		0.0						GRAVEL (75 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, brown, dry. No foul odor.	
10		LAB					GW		
11		LAB							
12		0.0					GW	Same as above (gravel=85 percent). Wet. No foul odor.	
13		LAB							
14		0.0							
15									
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed.	
20								Borehole completed with bentonite chips.	

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MONITORING WELL ID: **BORING LOG #: B-29** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903
3 ft south of 16 sq ft disused RV waste sump location
Borehole Location:34 ft east and 7 feet south of SW corner of Wash/Lube Service Bldg
Borehole Area (AOC): Southeast of former 8,000-gal tank basin / south of disused RV waste sump

Logged by: J. McDermott: Boring Depth: 14 feet

GW Encountered: ᴎ YES Static GW Level: 11.5

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation: 989 ft MSL

Start Date: 08-10-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt pavement - 4 inch	
1		0.0					GP	FILL - Gravel, with silt and sand, medium, subangular, poorly graded, (sand is fine-grained), dry, dark brown, No foul odor.	
2									
3					Air				
4		0.0		LAB	Knife		SP	FILL - SAND, with cobbles and silt, very fine, moderately graded, (cobbles are subrounded), dry, dark brown, No foul odor.	
5									
6									
7							SP	FILL - SAND, very fine to fine, with medium, medium brown dry. Trace asphalt fragments. No foul odor.	
		LAB							
8		0.0							
9							GW	GRAVEL (85 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, brown and gray, dry. No foul odor.	
10		0.0							
11									
		LAB							
12		0.0							
13							QW	Same as above. Wet. No foul odor.	
		LAB							
14		0.0							
15									
16									
17									
18									
19								Bottom of borehole at feet	
								Groundwater encountered at feet. No well installed.	
20								Borehole completed with bentonite chips.	

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MONITORING WELL ID: **BORING LOG #: B-30** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 2 ft north and 10 ft west of SW corner of wash/lube bldg

Borehole Area (AOC): East of Truck Wash-Oil Change Area - Former 8,000-gal UST Loc

Logged by: J. McDermott: Boring Depth: 14 feet

GW Encountered: YES Static GW Level: 14 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation: 989 ft MSL

Start Date: 08-10-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt pavement - 4 inch	
1		0.0					GP	FILL - Gravel, with silt and sand, medium, subangular, poorly graded, (sand is fine-grained), dry, dark brown, No foul odor.	
2									
3									
4		0.0		LAB	Air Knife		SP	FILL - SAND, with cobbles and silt, very fine, moderately graded, (cobbles are subrounded), dry, dark brown, No foul odor.	
5									
6									
7								No recovery at 6 to 9 - pushing a cobble/gravel	
8	LAB								
9		0.0					GW	GRAVEL (90 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray and brown, dry slightly moist at 11 ft. No foul odor.	
10									
11		0.1							
12	LAB							Same as above. Slightly moist to moist at 14 ft	
13							GW		
14	LAB								
15									
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed.	
20								Borehole completed with bentonite chips.	

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MONITORING WELL ID: **BORING LOG #: B31** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 25 ft north and 10 ft west of SW corner of wash/lube bldg

Borehole Area (AOC): East of Truck Wash-Oil Change Area - Former 8,000-gal UST Loc

Logged by: J. McDermott: Boring Depth: 14 feet

GW Encountered: ᴎ YES Static GW Level: 11.5

Notes:

Approx. Surface Elevation:989 ft MSL

Start Date: 08-09-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - atop compact angular gravel base.	
1									
2								FILL - PEA GRAVEL, subounded to subangular, trace to little fine to coarse sand, trace silt. Dry. No foul odor.	
3							GP		
4		0.0							
5									
6									
7							GP	FILL - PEA GRAVEL, Same as above. Gray, dry. No foul odor.	
8		0.0							
9									
10		LAB							
		0.0							
11							GP	FILL - PEA GRAVEL,Same as above. Gray, dry, wet below 11.5 ft. SEAM: Pea gravel matrix between 9 and11 ft is mix of fine sand,silt and clay, Trace medium to large angular gravel, moist. No foul odor, except narrow 1/2 inch zone at approx 11.9 - hint of petrol	
12		LAB							
		0.0							
13								FILL - PEA GRAVEL. SEAM: Pea gravel matrix between 13 and14 ft is mix of fine sand,silt and clay, Trace medium to large angular gravel, wet. (SEAM at13.5 ft: 2 in sandy silt atop 2 inch fine sand) Disturbed brown and gray mix in this interval. No foul odor.	
		LAB					GP		
14		0.0.					SW		
15								Refusal at 14 ft. - Base - 2 inches - possibly mix of fill and disturbed in-situ sandy gravel.	
16									
17									
18									
19								Bottom of borehole at feet Groundwater encountered at feet. No well installed.	
20								Borehole completed with bentonite chips.	

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MONITORING WELL ID: **BORING LOG #: B-32** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 27 ft north and 20 ft west of SW corner of wash/lube bldg

Borehole Area (AOC): East of Truck Wash-Oil Change Area - Former 8,000-gal UST Loc

Logged by: J. McDermott: Boring Depth: 13 feet

GW Encountered: YES Static GW Level:10.5

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation: 989 ft MSL

Start Date: 08-11-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt pavement - 4 inch	
1		0.0					GP	FILL - Gravel, with silt and sand, medium, subangular, poorly graded, (sand is fine-grained), dry, dark brown, No foul odor.	
2									
3									
4		0.0		LAB			SP	FILL - SAND, with cobbles and silt, very fine, moderately graded, (cobbles are subrounded), dry, dark brown, No foul odor.	
5									
6									
7									
8		0.0	LAB						
9							GW	GRAVEL (90 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray and brown, dry, slightly moist at 10 ft. No foul odor.	
10		0.0							
11		0.0	LAB						
12							GW	Same as above. Wet. No foul odor.	
13		0.0	LAB						
14									
15									
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-33** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 43 ft north and 17 ft west of SW corner of wash/lube bldg

Borehole Area (AOC): East of Truck Wash-Oil Change Area - Former 8,000-gal UST Loc

Logged by: J. McDermott: Boring Depth:14 feet

GW Encountered: YES Static GW Level:12

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation: 989 ft MSL

Start Date: 08-11-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt pavement - 4 inch	
1		0.0					GP	FILL - Gravel, with silt and sand, medium, subangular, poorly graded, (sand is fine-grained), dry, dark brown, No foul odor.	
2									
3									
4		0.0		LAB			SP	FILL - SAND, with cobbles and silt, very fine, moderately graded, (cobbles are subrounded), dry, dark brown, No foul odor.	
5									
6									
7									
8									
9									
10							GW	GRAVEL (80 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray with some brown, dry, slightly moist at 10 ft. No foul odor.	
11									
12		0.0							
		LAB							
13							GW	Same as above. Wet. No foul odor.	
14		0.0							
		LAB							
15									
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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MONITORING WELL ID: **BORING LOG #: B-34** **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 6 ft west of concrete east truck lane and 5ft south /perpendicular of concr walk.

Borehole Area (AOC): South of SE corner of Diesel fuel pump area

Logged by: J. McDermott: Boring Depth: 15 feet

GW Encountered: YES Static GW Level:13 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Approx. Surface Elevation: 985 ft MSL

Start Date: 08-10-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt pavement - 4 inch	
1		0.0					GP	FILL - Gravel, with silt and sand, medium, subangular, poorly graded, (sand is fine-grained), dry, dark brown, No foul odor.	
2									
								FILL - SAND, with cobbles and silt, very fine, moderately graded, (cobbles are subrounded), dry, dark brown, No foul odor.	
3									
4		0.0		LAB				As above, dark gray	
							SP		
5									
6									
7							GW	GRAVEL (80 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray with trace brown, dry. No foul odor.	
8		0.1							
9							GW	Same as above.	
10		LAB							
11									
12		LAB							
		247						GRAVEL (80 percent), small to large/cobbles, sand matrix is fine to very coarse, well graded, trace silt, gray and brown, black at 12 to 13 ft, dry to moist. Strong diesel odor at 12 to 13 ft.	
13							GW		
14		12.8						Same as above, brown, wet. Moderate diesel odor.	
15		7.3	LAB						
16									
17									
18								Bottom of borehole at feet	
19								Groundwater encountered at feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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BORING LOG #: B-36 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-8247

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 3 ft SE and 1ft SW of SW corner of pump island

Borehole Area (AOC): South adjoining second pump from SE corner. (Designate "PUMP S-2")

Logged by: Ryan Wigg: Boring Depth: 14 feet

GW Encountered: YES Static GW Level: 11 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-29-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 4 inches, atop gravel base.	
1									
2									
3		LAB	0935		Air				
					Knife		SW	FILL - SAND, fine to medium, few large, with silt, trace small gravel, medium brown. No foul odor.	
4									
5									
6									
7									
8		LAB	1010						
9							GW	GRAVEL (90 percent) - small to large with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, dry. No foul odor.	
10		LAB	1025						
								Same as above. Foul odor.	
11		LAB	1030						
12								Wet below 11 feet.	
13									
14		LAB	1050						
15									
16									
17									
18								Bottom of borehole at 14 feet	
								Groundwater encountered at 11 feet. No well installed.	
19								Borehole completed with bentonite chips.	
20									

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BORING LOG #: B-37 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 7 ft NW and 2ft SW of SE end of pump island N-2

Borehole Area (AOC):Adjoining S of 2nd pump from NW corner. (Designate "PUMP N-2")

Logged by: Ryan Wigg: Boring Depth: 15.5 feet

GW Encountered: YES Static GW Level: 10.5 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-29-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Concrete Pavement - 10 inches, atop gravel base.	
1							SW	FILL - SAND, fine to medium, few large, with silt, trace small gravel, medium brown, moist. No foul odor. Trace one to three inch wood fragments.	
2					Air Knife				
3		LAB	1027						
4								Air knife operator indicates dense cobble layer at 5 ft	
5							GW	GRAVEL (90 percent) - small to large with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, slightly moist. No foul odor.	
6									
7									
8									
9									
10									
11		LAB	1120					Same as above. Wet below 10.5, dark, heavily stained. Foul odor.	
12								Same as above. Light brown, foul odor.	
13									
14									
15		LAB	1145						
16								Failed attempt to collect water from temporary well - consistency of sludge - peristaltic pump will not raise more than 4 ft	
17									
18								Bottom of borehole at 15.5 feet	
19								Groundwater encountered at 10.5 feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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BORING LOG #: B-38 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 3ft SE and 2 ft SW of SE corner of Pump island N-6

Borehole Area (AOC): Adjoining S of 6th pump from NW corner. (Designate "PUMP N-6")

Logged by: Ryan Wigg: Boring Depth: 16 feet

GW Encountered: YES Static GW Level: 11 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-29-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Concrete Pavement - 10 inches, atop gravel base.	
1									
2					Air Knife		SW	FILL - SAND, fine to large, with small to large angular to rounded gravel, medium brown, no foul odor.	
3		LAB							
4		1135							
5							GW	GRAVEL (90 percent) - small to large with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, dry to slightly moist. No foul odor.	
6									
7									
8									
9									
10									
11		LAB							
		1415						Same as above. Groundwater encountered at 11 feet. Moderate odor.	
12									
13									
14								Slight odor.	
15									
		LAB							
16		1435							
17									
18								Bottom of borehole at 16 feet	
19								Groundwater encountered at 11 feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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BORING LOG #: B-39 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 3 ft SE and 2 ft Swof SW corner of pump island

Borehole Area (AOC): Adjoining south of sixth pump from S corner. (Designate "PUMP S-6")

Logged by: Ryan Wigg: Boring Depth: 16 feet

GW Encountered: YES Static GW Level: 11.5 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-29-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 4 inches, atop gravel base.	
1									
2									
3		LAB			Air				
		1405			Knife		SW	FILL - SAND, fine to large, little silt, some small to large angular to round gravel, medium brown. No foul odor.	
4									
5									
6									
								No recovery at 5 ft to 8 ft - pushed large gravel.	
7									
8									
								Little recovery between 8 and 12 feet.	
9									
10									
11							GW	GRAVEL (90 percent) - small to large with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, moist to wet. Slight to strong foul odor.	
		LAB							
12		1540							
		LAB							
13		1600							
		LAB							
14		1605							
15		LAB							
		1606							
16									
								Caved at 10 feet, unable to collect water sample	
17									
18								Bottom of borehole at 16 feet	
								Groundwater encountered at 11.5 feet. No well installed.	
19								Borehole completed with bentonite chips.	
20									

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BORING LOG #: B-40 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 11 ft SE and 7 ft NE of the SE end of the NE Pump of gasoline fueling area

Borehole Area (AOC): Immediately south of NE gasoline (Shell) pump.

Logged by: Ryan Wigg: Boring Depth: 14 feet

GW Encountered: YES Static GW Level: 11 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-29-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 4 inches, atop gravel base.	
1									
2									
3		LAB			Air				
		1530			Knife		SW	FILL - SAND, fine to medium, little silt, few large round gravel, medium brown. Dry. No foul odor.	
4									
5									
6									
7							GW	GRAVEL (90 percent) - small to large with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, slightly moist. No foul odor.	
8									
9		LAB							
		1700							
10									
11		LAB							
12		1700						Groundwater encountered. No foul odor.	
13		LAB						Overall odorless. Slight indistinct / possibly diesel odor for one inch at	
14		1715							
		LAB							
15		1730						Water samples collected with peristaltic pump from temporary PVC well, with screen at 9 to 14 ft: 2 ambers.	
16									
17									
18								Bottom of borehole at 14 feet	
19								Groundwater encountered at 11.5 feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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BORING LOG #: B-41a **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 2 ft NE and 3 ft NW of former Pump loc N2

Borehole Area (AOC): Upgradient borehole - North of the NEX Diesel Area pump, N-1

Logged by: Ryan Wigg: Boring Depth: 8.5 feet

GW Encountered: NO Static GW Level: ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-30-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 4 inches, atop gravel base.	
1							GW	GRAVEL (80 percent) - small to large with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, slightly moist. No foul odor.	
2									
3					Air Knife				
4		LAB 0815							
5									
6									
7								Little recovery. Driller reports numerous cobbles and large gravel. Dry. No foul odor.	
8									
9								Refusal at 8.5 feet. Driller indicates sampler rotating from probable large cobbles.	
10								Offset next boring (B-42b) 12 feet to the north.	
11									
12									
13									
14									
15									
16									
17									
18									
19								Bottom of borehole at 8.5 feet Groundwater not encountered. No well installed.	
20								Borehole completed with bentonite chips.	

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BORING LOG #: B-41b **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 2 ft NE and 15 ft NW of former Pump loc N2

Borehole Area (AOC):

Logged by: Ryan Wigg: Boring Depth: 8 feet

GW Encountered: NO Static GW Level: ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-30-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 8 inches, atop gravel base.	
1							GW		
2								GRAVEL (90 percent) - small to large with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, slightly moist. No foul odor. Potentially fill or reworked native.	
3									
4									
5									
6							GW	Same as above. Dry. No foul odor.	
7		LAB							
8		0910							
9								Refusal at 8.5 feet. Driller indicates sampler rotating from probable large cobbles.	
10									
11									
12									
13									
14									
15									
16									
17									
18									
19								Bottom of borehole at 8 feet Groundwater not encountered. No well installed.	
20								Borehole completed with bentonite chips.	

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BORING LOG #: B-42 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 18 ft N of UST pad and 6 ft SW of Concrete Truck exit pad

Borehole Area (AOC): Downgradient of Deisel fuel area

Logged by: Ryan Wigg: Boring Depth: 16 feet

GW Encountered: YES Static GW Level: 13 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-30-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 4 inches, atop gravel base.	
1								FILL - SAND, fine to medium, little silt, few small angular gravel, medium brown. No foul odor.	
2									
3									
4							GW		
5								GRAVEL (90 percent) - small to large, mostly small subrounded, with cobbles; sand - fine to very coarse, well graded: trace silt, gray and brown, slightly moist. No foul odor.	
6									
7									
8									
9									
10									
11								Possibly 2 inch recovery due to driven large gravel/cobble.	
12		LAB 1040						Same as above. Dry to slightly moist. No foul odor.	
13									
14									
15		LAB 1100						Presumed wet below 13 feet. Same as above. Slight indistinct / possible diesel odor. Collected 1 4-ou glass jar + 2 40cc VOAs preserved with 5ml methanol	
16									
17								Water samples collected with peristaltic pump from temporary PVC well, with screen at 10 to15 ft: 2 ambers + 2 40cc HCL preserved.	
18								Bottom of borehole at 16 feet	
19								Groundwater encountered at 12 feet. No well installed.	
								Borehole completed with bentonite chips.	
20									

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BORING LOG #: B-43 **Page 1 of**

Project Name: Gearjammer Truck Stop

Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 39 ft SE of canopy and 25 ft NE of concrete "runway"

Borehole Area (AOC):

Logged by: Ryan Wigg: Boring Depth: 16 feet

GW Encountered: YES Static GW Level: 13.5 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)

Approx. Surface Elevation: 989 ft MSL

Start Date: 11-30-16 End Date: Same

Depth (ft)	Groundwater	PID	Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 4 inches, atop gravel base.	
1							SP	SAND - fine, little silt, some small to large subrounded gravel, dark grey, trace small wood fragments and organic.	
2									
3									
4							GW	GRAVEL (90 percent) - small to large, mostly small angular, with cobbles; sand - medium to very coarse, well graded: trace silt, gray and brown, dry to slightly moist. No foul odor.	
5									
6									
7								Same as above. Dry. No foul odor.	
8		LAB 1315							
9								Same as above. Dry. No foul odor.	
10									
11									
12								Same as above. Wet below 13.5 ft. Strong diesel odor and very dark grey between 13.5 to 14 feet.	
13									
14		LAB 1325						Strong odor and medium brown below 14 feet.	
15									
16		LAB 1330							
17									
18									
19								Bottom of borehole at 16 feet Groundwater encountered at 13.5 feet. No well installed.	
20								Borehole completed with bentonite chips.	

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BORING LOG #: B-44 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 85 ft SE of canopy and 37 ft NE of concrete "runway"

Borehole Area (AOC):

Logged by: Ryan Wigg: Boring Depth: 14.5 feet

GW Encountered: YES Static GW Level: 11.5 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-30-16 End Date: Same

Depth (ft)	Groundwater		Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction
								Asphalt Pavement - 4 inches, atop gravel base.	
1							SP	SAND - fine, little silt, trace small to large subrounded gravel, dark grey, possible plant fiber, organic.	
2									
3									
4									
5									
6									
7									
8		LAB 1415					SW	SAND - medium to very coarse, brown to dark grey, slightly moist, no foul odor.	
9									
								Refusal at 9.5 feet. Offset four feet south.	
10							GW	GRAVEL (90 percent) - small to large, mostly small angular, with cobbles; sand - medium to very coarse, well graded: trace silt, gray and brown, dry to slightly moist. Black color and strong diesel odor between 11.5 and 14 feet.	
11									
12		LAB 1500							
13									
14		LAB 1505						Same as above. Wet, medium brown below 14 feet.	
15									
								Bottom of borehole at 14.5 feet	
16								Groundwater encountered at 11.5 feet. No well installed.	
								Borehole completed with bentonite chips.	
17									
18									
19									
20									

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BORING LOG #: B-45 **Page 1 of**

Project Name: Gearjammer Truck Stop
Project Number: 216-

Site Location: 2310 Rudkin Road, Union Gap, WA 98903

Borehole Location: 4 ft east of west post - Tall Shell signage in landscaped area

Borehole Area (AOC): Lawn are underneath sign.

Logged by: Ryan Wigg: Boring Depth: 14.5 feet

GW Encountered: YES Static GW Level: 11.5 ft

Notes:

Drilling Information

Drilling Contractor:	SEP, Tumwater, Wa
Drilling Method:	Direct Push
Borehole Diameter:	2"
Sampler Type:	Core sampler + virgin poly-sleeve

Shallow: Air knife / Hand auger samples

Driller: Russell Vaughn (Wa 3018T)
Approx. Surface Elevation: 989 ft MSL

Start Date: 11-30-16 End Date: Same

Depth (ft)	Groundwater		Visual or Olfactory Evidence	Blow Counts	Recovery		USCS Classification	Soil Classification/ Description	Well Construction		
								Grass landscaping - 4 inches, atop 4 inch gravel base.			
1							SP	SAND - fine, little silt, trace small to large subrounded gravel, medium brown, organic, moist.			
2											
3											
4							GW	GRAVEL (90 percent) - small to large, mostly small angular, with cobbles; sand - medium to very coarse, well graded: trace silt, gray and brown, dry.			
5											
6											
7											
8											
9											
10								Same as above. Wet below 11.5 feet. No foul odor.			
11											
12											
13								Same as above. Medium brown. Slight diesel odor between 13 and 13.5 feet.			
14			LAB	13.5ft							
15											
16											
17											
18								Bottom of borehole at 14.5 feet Groundwater encountered at 11.5 feet. No well installed.			
19								Borehole completed with bentonite chips.			
20											

LABORATORY ANALYTICAL RESULTS

ADVANCED ANALYTICAL

Environmental Testing Laboratory

December 08, 2016

James McDermott
Aerotech Environmental, Inc.
13925 Interurban Avenue South, Suite 210
Seattle, WA 98168

Dear Mr. McDermott:

Please find enclosed the analytical data report for the *Gearjammer Truck Plaza* ***(C61201-1)*** Project.

Samples were received on *December 01, 2016.* The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

V. Ivanov

Val G. Ivanov, Ph.D.
Laboratory Manager

4078 148 Ave NE■ Redmond, WA 98052
425.702-8571
E-mail: aachemlab@yahoo.com

Advanced Analytical Laboratory
(425) 702-8571

AAL Job Number:	C61201-1
Client:	Aerotech Environmental
Project Manager:	James McDermott
Client Project Name:	Gearjammer Truck Plaza
Client Project Number:	na
Date received:	12/01/16

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results

					Dupl			
NWTPH-Gx/BTEX		**MTH BLK**	**LCS**	**B-40 (W)**	**B-40 (W)**	**MS**	**MSD**	**RPD**
Matrix	Water	Water	Water	Water	Water	Water	Water	Water
Date analyzed	Reporting Limits	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
NWTPH-Gx, ug/L								
Mineral spirits/Stoddard	100	nd		nd	nd			
Gasoline	100	nd		nd	nd			
BTEX 8021B, µg/L								
Benzene	1.0	nd	97%	nd	nd	104%	94%	10%
Toluene	1.0	nd	93%	nd	nd	77%	78%	1%
Ethylbenzene	1.0	nd		nd	nd			
Xylenes	1.0	nd		nd	nd			
Surrogate recoveries:								
Trifluorotoluene		111%	126%	107%	110%	128%	127%	
Bromofluorobenzene		97%	93%	94%	101%	103%	100%	

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results

NWTPH-Dx, mg/kg		MTH BLK	B-35 (12')	B-35 (14')	B-36 (3')	B-36 (10')	B-36 (11')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Date analyzed	Limits	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	400	nd	1,800	29,000
Heavy oil	50	nd	nd	nd	nd	nd	nd
Surrogate recoveries:							
Fluorobiphenyl		115%	113%	105%	114%	102%	M
o-Terphenyl		110%	125%	128%	128%	129%	M

Data Qualifiers and Analytical Comments
na - not analyzed
Results reported on dry-weight basis
M - matrix interference
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results

NWTPH-Dx, mg/kg		B-36 (14')	B-37 (11')	B-37 (15.5')	B-38 (11')	B-38 (16')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Date analyzed	Limits	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	140	8,500	nd	5,300	nd
Heavy oil	50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		107%	M	119%	M	120%
o-Terphenyl		126%	M	128%	M	125%

Data Qualifiers and Analytical Comments
na - not analyzed
Results reported on dry-weight basis
M - matrix interference
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results

NWTPH-Dx, mg/kg		B-39 (3')	B-39 (12')	B-39 (13')	B-39 (14')	B-39 (16')	B-40 (3')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Date analyzed	Limits	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	1,100	2,100	1,200	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd	nd
Surrogate recoveries:							
Fluorobiphenyl		118%	125%	130%	128%	119%	120%
o-Terphenyl		125%	128%	M	128%	125%	130%

Data Qualifiers and Analytical Comments
na - not analyzed
Results reported on dry-weight basis
M - matrix interference
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results

NWTPH-Dx, mg/kg		B-40 (12')	B-40 (13.5')	B-42 (16')	B-43 (14')	B-43 (16')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Date analyzed	Limits	12/02/16	12/02/16	12/02/16	12/02/16	12/02/16
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	7,500	110
Heavy oil	50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		121%	119%	118%	M	112%
o-Terphenyl		125%	120%	121%	M	127%

Data Qualifiers and Analytical Comments
na - not analyzed
Results reported on dry-weight basis
M - matrix interference
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results			Dupl		Dupl	
NWTPH-Dx, mg/kg		**B-44 (12')**	**B-44 (12')**	**B-45 (13.5')**	**B-45 (13.5')**	**MTH BLK**
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/02/16	12/02/16	12/02/16	12/02/16	12/08/16
Date analyzed	Limits	12/02/16	12/02/16	12/02/16	12/02/16	12/08/16
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	9,900	9,900	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		M	M	121%	122%	115%
o-Terphenyl		M	M	128%	129%	129%

Data Qualifiers and Analytical Comments
na - not analyzed
Results reported on dry-weight basis
M - matrix interference
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results			Dupl	RPD
NWTPH-Dx, mg/kg		**B-42 (12')**	**B-42 (12')**	**B-42 (12')**
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/16	12/08/16	12/08/16
Date analyzed	Limits	12/08/16	12/08/16	12/08/16
Kerosene/Jet fuel	20	nd	nd	
Diesel/Fuel oil	20	nd	nd	
Heavy oil	50	250	330	28%
Surrogate recoveries:				
Fluorobiphenyl		112%	115%	
o-Terphenyl		110%	114%	

Data Qualifiers and Analytical Comments
na - not analyzed
Results reported on dry-weight basis
M - matrix interference
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C61201-1
Client: Aerotech Environmental
Project Manager: James McDermott
Client Project Name: Gearjammer Truck Plaza
Client Project Number: na
Date received: 12/01/16

Analytical Results

NWTPH-Dx, mg/L		MTH BLK	B-40 (W)	B-42 (W)
Matrix	Water	Water	Water	Water
Date extracted	Reporting	12/02/16	12/02/16	12/02/16
Date analyzed	Limits	12/02/16	12/02/16	12/02/16
Kerosene/Jet fuel	0.20	nd	nd	nd
Diesel/Fuel oil	0.20	nd	nd	nd
Heavy oil	0.50	nd	nd	nd
Surrogate recoveries:				
Fluorobiphenyl		122%	124%	123%
o-Terphenyl		129%	125%	125%

Data Qualifiers and Analytical Comments
na - not analyzed
C - coelution with sample peaks
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

ADVANCED ANALYTICAL

Chain of Custody Record

Laboratory Job #:

2821 152 Avenue NE
Redmond, WA 98052
(425) 497-0110 fax: (425) 497-8089
aachemlab@yahoo.com

Client: AGROTECH ENVIRONMENTAL

Project Name: GEARJAMMER TRUCK PLAZA 2310 RUDKIN RD, UNION GAP, WA

Project Manager: J. McDermott

Project Number:

Address: SEATTLE, WA

Collector: J. MCDERMOTT / RYAN WIGG

Phone: (425) 686-0032 Fax:

Date of collection: 29 NOV 2016

	Sample ID	Time	Matrix	Container type	8260 Volatiles	8021B Volatiles	BTEX	BTEX/NWTPH-Gx	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx/Dx silica gel	NWTPH-HCID	8270 Semivolatiles	8270 PAH	8082 PCBs	8081 Pesticides	RCRA 8 Metals	Lead					Notes, comments	# of containers
1	B-35 (5')	0905	SOIL	1 jar			X																	
2	B-35 (12')	0910							X															
3	B-35 (14')	0920							X															
4	B-36 (3')	0935							X															
5	B-36 (8')	1010																						
6	B-36 (10')	1025							X															
7	B-36 (11')	1030							X															
8	B-36 (14')	1050							X															
9	B-37 (11')	1120							X															
10	B-37 (15.5')	1145							X															
11	B-38 (11')	1415							X															
12	B-38 (16')	1435							X															

Relinquished by:	Date/Time	Received by:	Date/Time
Ryan Wigg / J McDermott	12.1.16 1405		12/1/16 14:05
Relinquished by:	Date/Time	Received by:	Date/Time
	12.1.16 18:55	V Hauer 12/1/16	13:00

Sample receipt info:

Total # of containers:

Condition (temp, °C)

Seals (intact?, Y/N)

Comments:

Turnaround time:

Same day O

24 hr O

48 hr O

Standard O

ADVANCED ANALYTICAL

Chain of Custody Record

Page 2 of 3

Laboratory Job #:

2821 152 Avenue NE
Redmond, WA 98052
(425) 497-0110 fax: (425) 497-8089
aachemlab@yahoo.com

Client: AEROTECH ENVIRONMENTAL

Project Name: GEARJAMMER TRUCK PLAZA 2310 RUDKIN RD, UNION GAP, WA

Project Manager: J. MCDERMOTT

Project Number:

Address: SEATTLE, WA

Collector: J. MCDERMOTT / RYAN WIGG

Phone: 425-686-0032 Fax:

Date of collection: 29 NOV 2016 + 30 NOV 2016

	Sample ID	Time	Matrix	Container type	8260 Volatiles	8021B Volatiles	BTEX	BTEX/NWTPH-Gx	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx (Dx ext)	NWTPH-HCID	8270 Semivolatiles	8270 PAH	8082 PCBs	8081 Pesticides	RCRA 8 Metals	Lead				Notes, comments	# of containers
1	B-39 (3')	1406	SOIL	1 jar						X													
2	B-39 (12')	1540								X													
3	B-39 (13')	1600								X													
4	B-39 (14')	1605								X													
5	B-39 (16')	1606								X													
6	B-40 (3')	1630								X													
7	B-40 (9')	1700																					
8	B-40 (12')	1705								X													
9	B-40 (13.5')	1715								X													
10	B-40 (W)	1730	WATER	2 amb 2 VOA				X		X													
11	B-41a (4')	0815	SOIL	1 jar																			
12	B-41b (8')	0910																					

29 NOV

30 NOV

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	12.1.16 1205	[signature]	12/1/16 1205
Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	12/1/16 1255	V. Tran	12/1/16 13:00

Sample receipt info:

Total # of containers:

Condition (temp, °C)

Seals (intact?, Y/N)

Comments:

Turnaround time:

Same day O

24 hr O

48 hr O

Standard O

ADVANCED ANALYTICAL

Chain of Custody Record

Laboratory Job #:

2821 152 Avenue NE
Redmond, WA 98052
(425) 497-0110 fax: (425) 497-8089
aachemlab@yahoo.com

Client: AEROTECH

Project Name: GEARJAMMER TRUCK PLAZA UNION GAP, WA

Project Manager: McDermott

Project Number:

Address:

Collector: J. McDermott / Ryan Wiss

Phone: 425-686-8032 Fax:

Date of collection: 30 NOV 2016

	Sample ID	Time	Matrix	Container type	8260 Volatiles	8021B Volatiles	BTEX	BTEX/NWTPH-Gx	NWTPH-Gx	NWTPH-Dx 10x ck	NWTPH-HCID	8270 Semivolatiles	8270 PAH	8082 PCBs	8081 Pesticides	RCRA 8 Metals	Lead					Notes, comments	# of containers
1	B-42 (12')	1040	SOIL	1 jar																			
2	B-42 (16')	1100	↓	1 jar HCl/ice						X													
3	B-42 (W)	1130	WATER	2 amb						X													
4	B-43 (8')	1315	SOIL	1 jar																			
5	B-43 (14')	1325	|	(						X													
6	B-43 (16')	1330	|	(						X													
7	B-44 (8')	1415	|	(																			
8	B-44 (12')	1500	|	(						X													
9	B-45 (7.5')	1525	|	(																			
10	B-45 (13.5')	1545	↓	↓						X													
11																							
12																							

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	12.1.16 1205	[signature]	12/1/16 1205
Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	12/1/16 1255	V. Frank	12/01/16 1320

Sample receipt info:

Total # of containers:

Condition (temp, °C)

Seals (intact?, Y/N)

Comments:

Turnaround time:

Same day ○
24 hr ○
48 hr ○
Standard ○

SUPPORTING DOCUMENTS

Well Records

State of Washington Department of Ecology

UNION GAP
WELL NO 5

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No. W07389
UNIQUE WELL I.D. # AAS 165
Water Right Permit No. G4-32214 / G4-32215

(1) OWNER: Name City of Union Gap Address P.O. Box 3008 Union Gap, WA 98903

(2) LOCATION OF WELL: County Yakima . SE 1/4 NW 1/4 Sec 32 T. 13 N, R 19F W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) E. Washington Ave @ Cahalan Park in Union Gap

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☒ ☐ Irrigation ☐ Test Well ☐ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) #5
Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 20x12 inches.
Drilled 616 feet. Depth of completed well 610 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 20 " Diam. from +2 ft. to 400 ft.
Welded ☒ Liner installed ☒ Threaded ☐ 12 " Diam. from 355 ft. to 610 ft.
except at screens-has plate bottom & MNPT top
Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Houston
Type V shape wire wrap Model No. 304 SS
Diam. 12 Slot size .040 from * ft. to * ft.
Diam. Slot size from ft. to ft.

Filter ~~Gravel~~ packed: Yes ☒ No ☐ Size of ~~gravel~~ pack CSSI 8x12
Filter ~~Gravel~~ placed from 355 ft. to 616 ft.

Surface seal: Yes ☒ No ☐ To what depth? 400 ft.
Material used in seal Cement
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level approx 1000 ft.
Static level ft. below top of well Date
Artesian pressure 8 lbs. per square inch Date 4/10/00
Artesian water is controlled by flange & valve (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? SEI
Yield: gal./min. with ft. drawdown after hrs.
" see attached" graphs " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
see attached graph					

Date of test 3/29/00-4/1/00
Bailer test gal./min. with ft. drawdown after hrs.
Airtest gal./min. with stem set at ft. for hrs.
Artesian flow approx 300+ g.p.m. Date 3/28/00
Temperature of water 61° F Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
see attached log		
* Screen locations:	385	390
	400	410
	465	505
	513	590
	590	610

Work Started 1/19/00 19. Completed 4/10/00 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Schneider Equipment Inc (PERSON, FIRM OR CORPORATION) (TYPE OR PRINT)
Address 21881 River Rd. NE St. Paul, OR 97137
(Signed) (WELL DRILLER) License No. 0643
Vice President
Contractor's Registration No. SCHNEI*226LG Date 5/3 19 2000

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.

WO 7389

City of Union Gap Well #5

by Schneider Drilling Co.

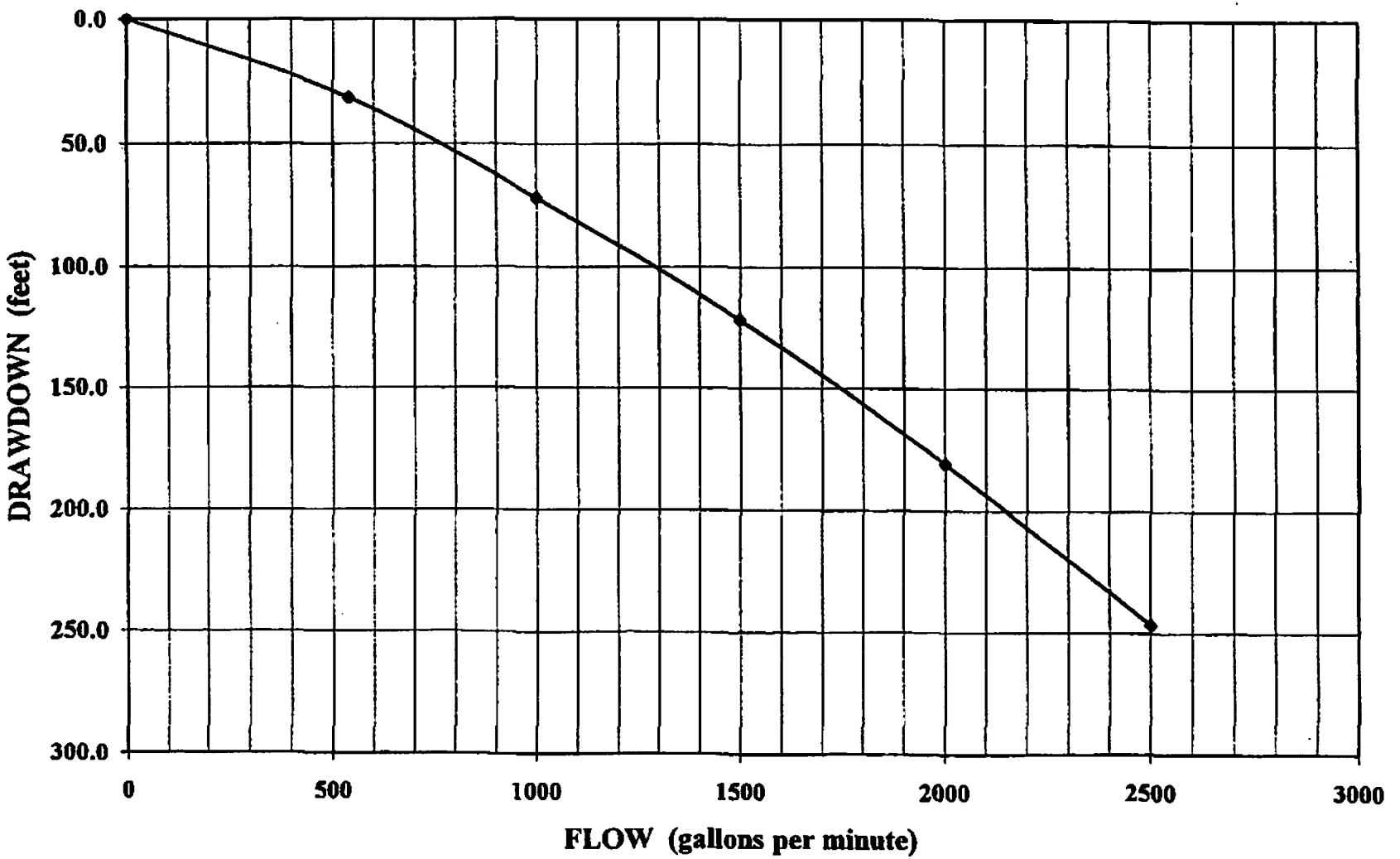
Start Card #W07389 **Label #AAS165**

FM	TO	DESCRIPTION
0	2	Topsoil
2	5	Gravel, 3"- and clay, brown
5	16	Gravel, cobbles/boulders and sand
16	24	Gravel, sand and cobbles, multi-colored
24	27	Gravel, slightly cemented and sand
27	133	Gravel, cemented, multicolored, and cobbles/boulders
133	141	Gravel, cemented, multicolored, some shale, tan
141	181	Gravel, cemented, some cobbles, multicolored
181	186	Gravel, cemented, multicolored, some clay, tan, hard
186	216	Gravel, cemented, multicolored, some sand, red, cemented
216	282	Gravel & sand, cemented, multicolored, w/grey clay @ top
282	330	Gravel & sand, cemented, multicolored, w/clay, tan, sandy
330	341	Clay, tan, sandy, fairly dry, silty, soft
341	347	Clay, tan, med-hd, w/some gravel
347	360	Clay, tan, silty/sandy & cemented sand, tan w/some red
360	370	Gravel, slightly cemented, multicolored
370	371	Clay, tan, sandy/silty w/some gravel
371	378	Gravel, blue/green, medium
378	400	Gravel, blue/green, & green w/slight clay binder
400	405	Gravel, red & green
405	410	Gravel, cemented, red and green

W07384

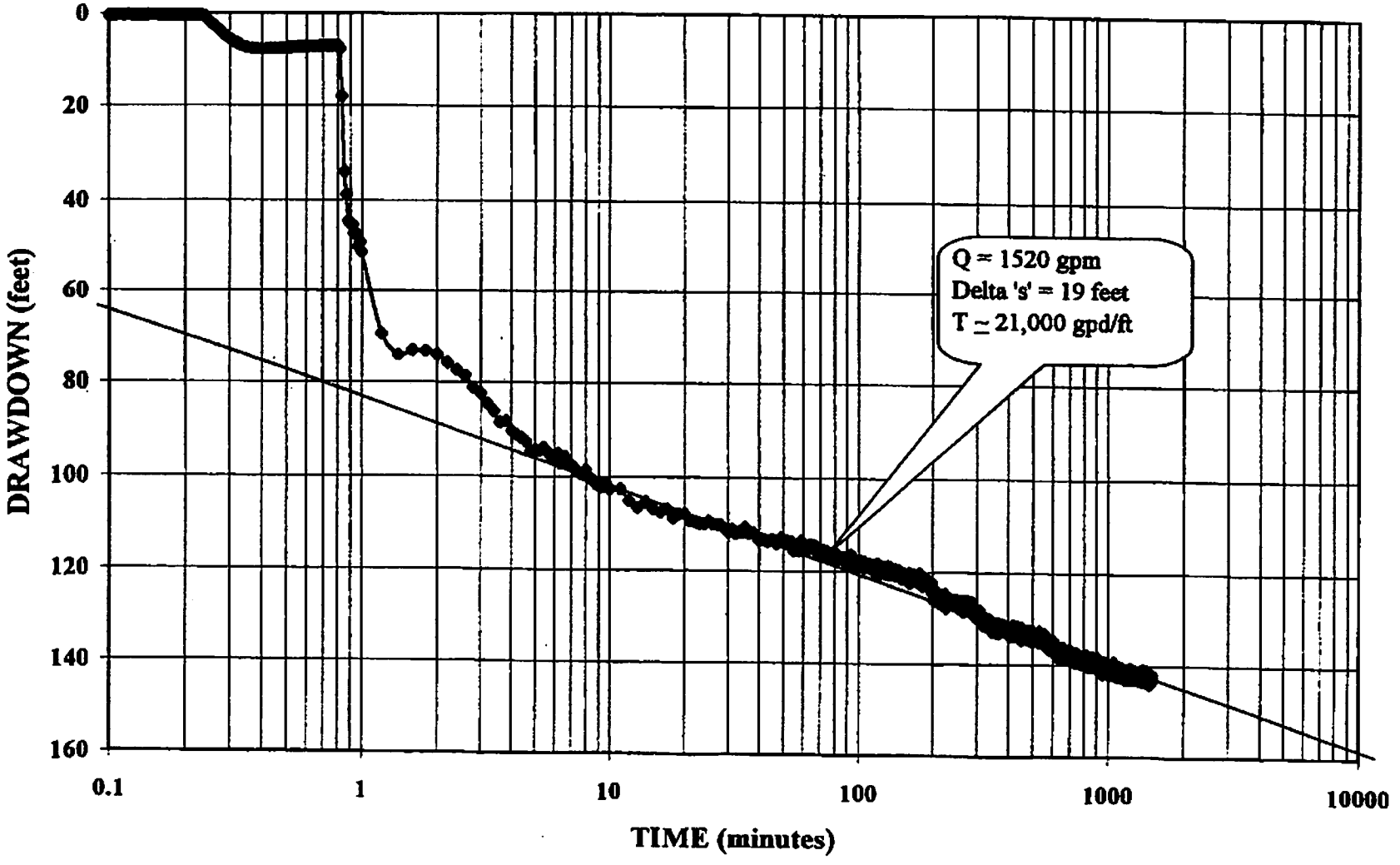
410	436	Gravel, cemented, red, green and clay, green and grey
436	441	Clay, blue/grey, silty w/cemented sand layers
441	446	Clay, blue grey, hard
446	451	Clay, blue grey, med & hard
451	454	Clay, blue grey and sand, grey, cemented
454	456	Clay, hard & med, grey & green
456	461	Gravel, red, green, black and clay, hard, grey & green
461	466	Gravel, multicolored and clay, green, hard
466	476	Gravel, multicolored and clay, green, hard & quartz, white
476	491	Gravel, multicolored & quartz white
491	496	Gravel, multicolored and sand, green, cemented
496	506	Gravel, mostly dark grey and clay, grey, green, hard and sand, red, cemented
506	511	Gravel, mostly dark grey and clay, green, hard & med, some crumbly
511	514	Gravel, mostly dark grey and clay, light grey, hard and sand, red, cemented
514	516	Gravel, multicolored and clay, brown, green, hard and sand, red, cemented
516	531	Gravel, multicolored red, rusty brown & clay, light green, brown, hard
531	546	Gravel, cemented, multicolored, red & clay, brown, hard
546	559	Gravel, cemented, multicolored & sand, red, cemented & clay, blue/grey
559	591	Gravel, cemented, multicolored, darker and sand, red, cemented
591	601	Gravel, darker and clay, brown, hard and clay, blue/grey, med
601	606	Sand, dark brown, cemented and clay, grey
606	616	Clay, green, silty, fairly sticky

CITY OF UNION GAP WELL #5
3/29/00 Step Test Drawdown after 2 Hours / Step



W0738

CITY OF UNION GAP WELL #5
3/30/00 Constant Rate Pump Test

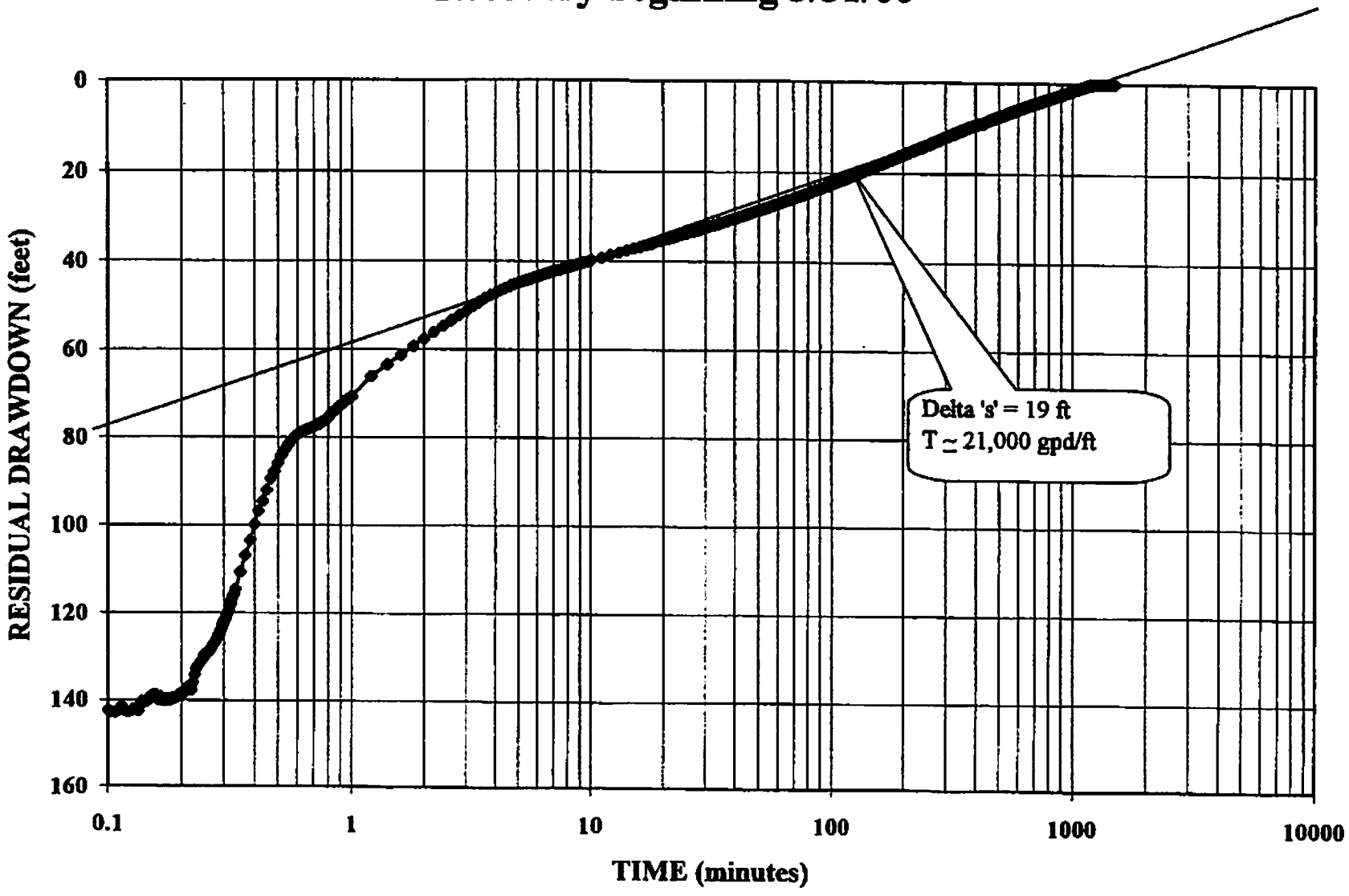


well #5 test data & graphs 3-30 CR pump graph

Schneider Drilling Co.

WN07389

CITY OF UNION GAP WELL #5
Recovery beginning 3/31/00



well #5 test data & graphs 3-30 rec graph

Schneider Drilling Co.

W0 73 89

WELL LOG CHANGE FORM

Instructions: Record any change made to the well log record on this form Append this form to the well log image File with the original

WCL Log ID (Required) 28543 Well Log ID 254732

Regional Office ☒CRO ☐ERO ☐NWRO ☐SWRO

Type of Well ☒ Water ☐ Resource

Notice of Intent W007389 Ecology Well ID Tag No AKJ-700

Property (Well) Owner's Name City of Union Gap
Well Street Address E. Washington Ave. @ Canalan Park in Union Gap
City Union Gap County Yakima Zip Code 98903

Location SE 1/4-1/4 NW 1/4 Sec 32 Twn 13 R 19 (E) or W (Circle One)

Lat /Long (Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____
Horizontal Collection Method Code _____

Tax Parcel No 191332 24015

Type of Work ☒ New Well ☐ Reconditioned ☐ Deepened
Well Log Received Date 5/22/2000
Well Diameter 20 (in inches) Well Depth 610 (in feet) Well Completed Date 4/10/2000

Driller's Ecology License No 0643
Trainee's Ecology License No _____

Reason/Source of Change (Required)
WELL ID TAG WAS LOST OR DESTROYED AND A NEW TAG WAS ISSUED 01-08-2004

Signature of Well Log Tracker (Required) G. Heronimus Date 1/29/04

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. W07389

UNIQUE WELL I.D. ~~AHS 165~~ AKJ-700

Water Right Permit No. G4-32214 / G4 32215

(1) OWNER Name City of Union Gap Address P.O Box 3008 Union Gap, WA 98903

(2) LOCATION OF WELL County Yakima SE 1/4 NW 1/4 Sec 32 T 13 N R 19E WM

(2a) STREET ADDRESS OF WELL (or nearest address) E Washington Ave @ Cahalan Park in Union Gap

(3) PROPOSED USE ☐ Domestic ☐ Industrial ☐ Municipal ☒ ☐ Irrigation ☐ Test Well ☐ Other ☐ ☐ Dewater

(4) TYPE OF WORK Owner's number of well (if more than one) #5
Abandoned ☐ New well ☒ Method Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS Diameter of well 20x12 inches. Drilled 616 feet. Depth of completed well 610 ft.

(6) CONSTRUCTION DETAILS
Casing installed 20 Diam from +2 ft to 400 ft.
Welded ☒
Liner installed ☒ Diam from ft. to ft.
Threaded ☐ 12 Diam from 355 ft to 610 ft.
except at screens-has plate bottom & MNPT top
Perforations. Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens Yes ☒ No ☐
Manufacturer's Name Houston
Type V shape wire wrap Model No 304 SS
Diam 12 Slot size .040 from * ft. to ** ft.
Diam. Slot size from ft. to ft.

Filter Gravel packed Yes ☒ No ☐ Size of gravel pack CSSI 8x12
Filter Gravel placed from 355 ft. to 616 ft.

Surface seal Yes ☒ No ☐ To what depth? 400 ft.
Material used in seal Cement
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP Manufacturer's Name
Type H.P

(8) WATER LEVELS Land-surface elevation above mean sea level approx 1000' ft
Static level ft below top of well Date
Artesian pressure 8 lbs. per square inch Date 4/10/00
Artesian water is controlled by flange & valve (Cap, valve, etc)

(9) WELL TESTS Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? SEI
Yield gal./min with ft. drawdown after hrs.
" see attached "graphs " "
" " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
see attached graph.					

Date of test 3/29/00-4/1/00
Bailer test gal./min with ft. drawdown after hrs.
Airtest gal./min with stem set at ft. for hrs.
Artesian flow approx 300+ g.p.m. Date 3/28/00
Temperature of water 61° F Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
see attached log		
* Screen locations.	385	390
	400	410
	465	505
	513	590
	590	610

Work Started 1/19/00 19 Completed 4/10/00 19

WELL CONSTRUCTOR CERTIFICATION

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Schneider Equipment, Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address 21881 River Rd. NE St. Paul, OR 97137
(Signed) [signature] (WELL DRILLER) Vice President License No 0643
Contractor's Registration No SCHNEI*226LG Date 5/3 19 2000

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No ______
Permit No. 64-23040P

(1) OWNER: Name City of Yakima Parks & Recreation Address 129 N. 2nd Street

(2) LOCATION OF WELL. County Yakima — SE ¼ NW ¼ Sec 32 T.13 N., R.19E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK. Owner's number of well (if more than one) ______
New well ☐ Deepened ☐ Reconditioned ☐
Method: Dug ☒ Bored ☐ Cable ☐ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS. Diameter of well 48 inches.
Drilled ___ ft. Depth of completed well 18 ft.

(6) CONSTRUCTION DETAILS. Well Casing

Casing installed: ___ Diam. from 4 ft. to ___ ft.
Threaded ☐ ___" Diam. from ___ ft. to ___ ft.
Welded ☐ ___" Diam. from ___ ft. to ___ ft.

Perforations: Yes ☒ No ☐
Type of perforator used made in casing
SIZE of perforations ___ in. by ___ in.
___ perforations from ___ ft. to ___ ft.
___ perforations from ___ ft. to ___ ft.
___ perforations from ___ ft. to ___ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name ______
Type ______ Model No. ______
Diam. ___ Slot size ___ from ___ ft. to ___ ft.
Diam. ___ Slot size ___ from ___ ft. to ___ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel ______
Gravel placed from ___ ft. to ___ ft.

Surface seal: Yes ☐ No ☒ To what depth? ___ ft.
Material used in seal ______
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ______ Depth of strata ______
Method of sealing strata off ______

(7) PUMP: Manufacturer's Name ______
Type Centrifical H.P. 10

(8) WATER LEVELS Land-surface elevation above mean sea level ___ ft.
Static level 3 ft. below top of well Date June
Artesian pressure ___ lbs. per square inch Date ___
Artesian water is controlled by ______ (Cap, valve, etc.)

(9) WELL TESTS Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? ______
Yield ___ gal./min. with ___ ft. drawdown after ___ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ______
Bailer test ___ gal./min. with ___ ft. drawdown after ___ hrs.
Artesian flow ___ g.p.m. Date ___
Temperature of water ___ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
The Company that put the well in no longer does business and there are no records on file on the well		

Work started ___, 19__ Completed ___, 19__

WELL DRILLER'S STATEMENT

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ______ (Person, firm, or corporation) (Type or print)

Address ______

(Signed) ______ (Well Driller)

License No ______ Date ______, 19__

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-30

? Union Gap
Well No 2

STATE OF WASHINGTO.
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Decla. #526
Cert. #518-D

Date 1936, 19
Record by Don E. Gray
Source G. W. Decla. Claim

Location: State of WASHINGTON
County Yakima
~~xxx~~ Lot 12, Block 2 of
~~xx~~ Union Gap, original
~~SW NW~~ ¼ sec. 5 T 12 N., R. 19 E. W.
~~xxxxxx~~ townsite
Address

DIAGRAM OF SECTION

Method of Drilling drilled Date Jul. 22 19 47
Owner Town of Union Gap
Address Union Gap, Wash.
Land surface, datum ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Loose gravel & topsoil	15	15
	Cemented gravel	85	100
	Boulders	5	105
	Streaks of cemented gravel, loose gravel & boulders	70	175
	River & cemented gravel	17	192
	Sand & gravel	23	215
Pump	Test:		
	Dim: 215' x 12" x 10"		
	SWL: 10'		
	Dd: 56'		
	Yield: 450 g.p.m.		
	Casing: 12" dia. from 0' to 90'; 10" dia. from 87' to 215'.		
	Perforations: 10" casing perfor. for		

159 - 214 ft
'screen'

Turn up (Over) Sheet ___ of ___ sheets

WELL LOG.—Continued No. D.A. 526

CORRELATION	Town of Union Gap MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Depth forward	—	
	55' from 159' to 214'.		
	Pump: 450 g.p.m.		
	Motor: 30 hp		

SF 7449-46 REMINGTO D INC - 20 20 745-2- 46

? Union Gap Well No 4

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

WELL LOG

No. Decla/. 527
Cert. 519-D

Date June 30, 19 36
Record by Don E. Gray
Source G. W. Decla. Claim

Location: State of WASHINGTON
County Yakima
~~Area~~ Lot 12, Block 2 of
~~Map~~ original town site
SW ¼ NW ¼ sec. 5 T. 12 N., R. 19 E.

Diagram of Section

Drilling Co.
Address
Method of Drilling drilled Date July 22, 19 47
Owner Town of Union Gap
Address Union Gap, Washington
Land surface, datum ft. above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Top soil	4	4
	Cemented gravel	46	50
	Boulders & gravel	13	63
	Clay	5	68
	Cemented gravel caving	42	110
	Cemented gravel & boulders	40	150
	Washed gravel caving	9	159
	Cemented gravel	31	190
	Cemented gravel caving	14	204
	Cemented gravel	13	217
Pump test:			
	Dim: 217' x 12" x 10"		
	SWL: 10'		
	Dd: 60'		
	Yield: 450 g.p.m.		
	Casing: 12" dia. from 0' to 83'		

142 - 197 ft 'screened'

Turn up

Sheet ..... of ..... sheets

WELL LOG.—Continued No. D-527

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Town of Union Gap Depth forward	———	
	10" dia. from 80' to 198'.		
	Perforations: 10" perfor. casing for		
	55' from 142' to 197'		
	Pump: 450 g.p.m.		
	Motor: 30 h.p.		

S. F. No. 7419—12-54—3M. 40108.

Previous Reports

Department of Ecology Files

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
15 W Yakima Ave, Ste 200 • Yakima, WA 98902-3452 • (509) 575-2490

September 8, 2010

Mr. Chuck Hinckley
2310 Rudkin Road
Union Gap, WA 98903

Re: Further Action at the following Site:

- **Site Name:** Gearjammer Truck Plaza
- **Site Address:** 2310 Rudkin Road
- **Facility/Site No.:** **26981244**
- **VCP Project No.:** **CE 0312**

Dear Mr. Hinckley:

The Washington State Department of Ecology (Ecology) received your request for an opinion on your independent cleanup of the Gearjammer Truck Plaza facility (Site). This letter provides our opinion. We are providing this opinion under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW.

Issue Presented and Opinion

Is further remedial action necessary to clean up contamination at the Site?

YES. Ecology has determined that further remedial action is necessary to clean up contamination at the Site.

This opinion is based on an analysis of whether the remedial action meets the substantive requirements of MTCA, Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 WAC (collectively "substantive requirements of MTCA"). The analysis is provided below.

Description of the Site

This opinion applies only to the Site described below. The Site is defined by the nature and extent of contamination associated with the following release:

- Total Petroleum Hydrocarbons diesel (TPHd) into the Ground Water.

The Site is described and defined in the text and in Figures 1 through 6 in the June 21, 2010; March 19, 2010; November 11, 2009; and August 27, 2009, Groundwater Monitoring Reports by Blue Mountain Consulting.

Please note a parcel of real property can be affected by multiple sites. At this time, we have no information that the parcel(s) associated with this Site are affected by other sites.

Basis for the Opinion

This opinion is based on the information contained in the following documents:

1. Groundwater Monitoring Reports, Gearjammer Truck Plaza; Blue Mountain Environmental Consulting; June 21, 2010; March 19, 2010; November 11, 2009; and August 27, 2009.

2. Ecology letter of February 4, 2009; Richard Bassett.

3. Limited Groundwater Sampling & Analysis Report; Sage Earth Sciences, Inc.; June, 2000.

Those documents are kept in the Central Files of the Central Regional Office of Ecology (CRO) for review by appointment only. You can make an appointment by calling the CRO resource contact at (509) 454-7839.

This opinion is void if any of the information contained in those documents is materially false or misleading.

Analysis of the Cleanup

Ecology has concluded that **further remedial action** is necessary to clean up contamination at the Site. That conclusion is based on the following analysis:

Diesel groundwater contamination has decreased significantly since May 23, 2000 (reference 3) when sampling analyses found TPHd at 14,000 ug/L (MTCA cleanup level is at 500 ug/L).

In the last four quarterly groundwater reports, there was no longer a report of free product in MW-3 (reference 1).

Yet, in the recent four Blue Mountain quarterly groundwater reports, TPHd was still above (580 ug/L) or close to (310 ug/L) the MTCA cleanup value of 500 ug/L (Table 720-1 Method A Cleanup Levels for Ground Water) in two of its four submittals (reference 1). An additional four quarters of sampling for just TPHd (reduced number of contaminant monitoring and analyses) at all three Site wells is required and may bring the Site to cleanup.

Limitations of the Opinion

1. Opinion does not settle liability with the state.

Liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release or releases of hazardous substances at the Site. This opinion **does not**:

- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person must enter into a consent decree with Ecology under RCW 70.105D.040(4).

2. Opinion does not constitute a determination of substantial equivalence.

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is substantially equivalent. Courts make that determination. *See* RCW 70.105D.080 and WAC 173-340-545.

3. State is immune from liability.

The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

Contact Information

Thank you for choosing to clean up the Site under the Voluntary Cleanup Program (VCP). After you have addressed our concerns, you may request another review of your cleanup. Please do not hesitate to request additional services as your cleanup progresses. We look forward to working with you.

For more information about the VCP and the cleanup process, please visit our web site: www.ecy.wa.gov/programs/tcp/vcp/vcpmain.htm. If you have any questions about this opinion, please contact me by phone at (509) 454-7839 or e-mail at rbas461@ecy.wa.gov.

Sincerely,

Richard Bassett
CRO Toxics Cleanup Program

cc: Peter Trabusiner, Blue Mountain

SAGE Earth Sciences, Inc.

September 18, 2015

Mr. Chuck Hinckley
GearJammer, Inc.
2310 Rudkin Road
Union Gap, WA 98903

SUBJECT: LIMITED GROUNDWATER MONITORING REPORT FOR THE GEARJAMMER, INC. FACILITY, UNION GAP, WA.

Dear Mr. Hinckley,

Enclosed, please find two (2) copies of the above referenced report. We will transmit a copy of this report to the Washington State Department of Ecology (WSDOE), Toxics Cleanup Program. The WSDOE requires that you retain this report for a minimum of ten (10) years. Sage recommends that you retain it indefinitely.

Sage Earth Sciences, Inc. appreciates the opportunity to provide you with environmental services for your remediation project. Please contact us if you have any questions or comments.

Respectfully,
SAGE EARTH SCIENCES, INC.

David L. Green
Hydrogeologist

Enclosures: *Invoice* dated September 18, 2015 and
Groundwater Monitoring Report dated September 18, 2015.

cc: file
Washington State Department of Ecology, Toxics Cleanup Program, Yakima, WA

1705 South 24th Avenue ✤ Yakima, WA 98902
Phone: 509.834.2333 ✤ Fax: 509.834.2334 ✤ E-mail: info@sage-earth-sciences.com

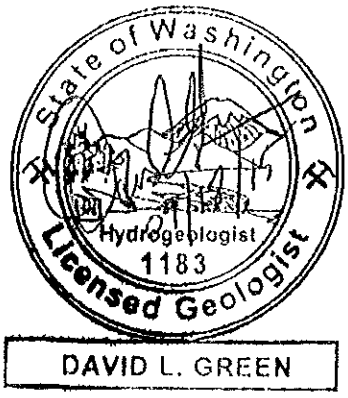
Groundwater Monitoring Report

For the GearJammer Truck Plaza
2310 Rudkin Road,
Union Gap, WA 98903

Prepared For:

GearJammer, Inc.
2310 Rudkin Road
Union Gap, WA 98903

Prepared By:



SAGE
Earth Sciences, Inc.

1705 S. 24th Ave.
Yakima, WA 98902

September 18, 2015

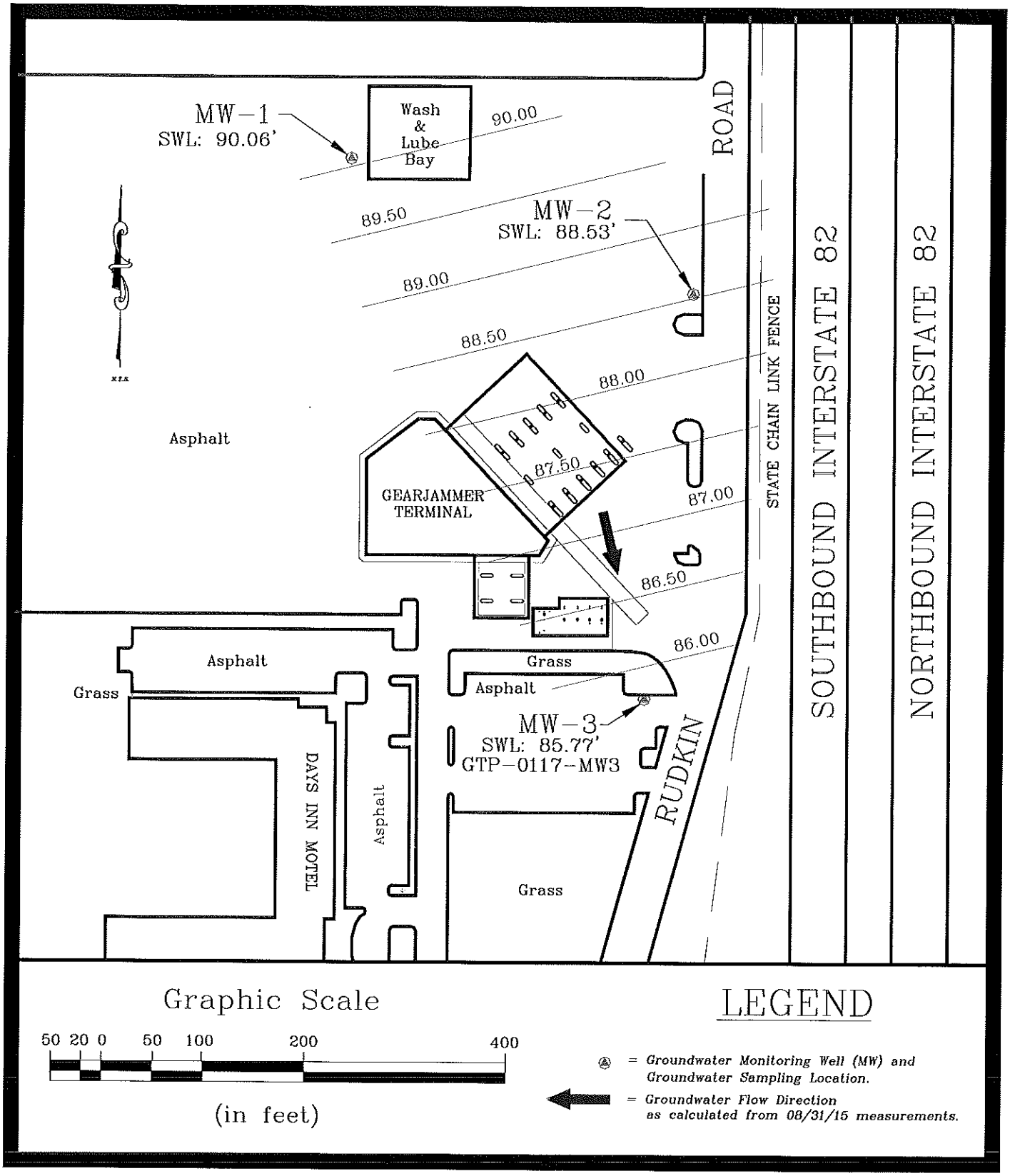


Figure 1. Groundwater Sampling Location & Water Table Contours on August 31, 2015

Table 1. Well Survey and Groundwater Level Data

Well ID	Date	Top of Casing Elevation (TBM)	Measured Depth to Groundwater (feet TOC)	Relative Groundwater Elevation (feet)	Change From Previous Elevation (feet)
MW-1	10/16/14	98.87	8.56	90.31	--
	02/23/15		10.31	88.56	-1.75
	06/01/15		9.63	89.24	+0.68
	08/31/15		8.81	90.06	+0.82
MW-2	10/16/14	97.20	8.44	88.76	--
	02/23/15		9.96	87.24	1.52
	06/01/15		9.36	87.84	+0.60
	08/31/15		8.67	88.53	+0.69
MW-3	10/16/14	95.56	9.79	85.77	--
	02/23/15		10.42	85.14	0.63
	06/01/15		10.45	85.11	-0.03
	08/31/15		9.79	85.77	+0.66

TBM – Relative to Temporary Bench Mark, BGS – Below Ground Surface, TOC – Relative to Top Of Casing

On August 31, 2015, the groundwater surface was found to lie at depths ranging from 8.67 to 9.79 feet below top of casing in the wells. The local groundwater gradient was calculated to be approximately 0.007 ft/ft from the north-northwest toward the south-southeast as shown by Figure 1.

2.2 Groundwater Sampling & Analysis

Sage collected a groundwater samples (GTP-0117-MW3) from Monitoring Well #3 on August 31, 2015. Sage collected the groundwater sample using methods described in Appendix A. The *Monitoring Well Sampling Log* (Appendix B) provides sampling observations. Sage observed no petroleum sheen or diesel odors during the sampling process. Approximately 10 gallons of well purge water was placed in barrels temporarily stored at the northern portion of the subject property.

Sage submitted the groundwater sample to Friedman & Bruya, Inc. (FBI), Seattle, WA for analysis using the following methods: 8021B/NWTPH-Gx (gasoline range and aromatic petroleum hydrocarbons) and NWTPH-Dx (diesel range petroleum hydrocarbons extended to include motor oil range compounds). The monitoring well and groundwater sampling location is shown by Figure 1.

FBI analytical results for the Monitoring Well #3 sample are summarized by Table 2. Comparison of the analytical results (Appendix C) with the *Method A Groundwater Cleanup Levels* of WAC 173-340-720 (Appendix D) indicates that remedial action is required at the Groundwater Monitoring Well #3 sampling location for this groundwater sampling event to reduce diesel range petroleum hydrocarbon concentrations.

Table 2. FBI Analytical Results for Groundwater Monitoring Well #3 Samples

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Gasoline (ug/L)	Diesel (ug/L)	Motor Oil (ug/L)
GTP-0114-MW3	10/16/14	<1	<1	<1	<3	<100	370	<250
GTP-0115-MW3	02/23/15	<1	<1	<1	<3	<100	62	<250
GTP-0116-MW3	06/01/15	<1	<1	<1	<3	<100	2,100	310
GTP-0117-MW3	08/31/15	<1	<1	<1	<3	<100	500	<250

Red Font indicates that concentration exceeds Method A Cleanup Levels of WAC 173-340-720
Green Font indicates that concentration does not exceed Method A Cleanup Levels of WAC 173-340-720
ug/L = parts per billion

3.0 Conclusions

With the exception of diesel range petroleum hydrocarbons, the FBI independent laboratory analysis of the Groundwater Monitoring Well #3 sample found no detectable petroleum hydrocarbons. The FBI independent laboratory analysis found diesel range petroleum hydrocarbons at a concentration of 500 µg/L (ppb). Diesel range petroleum hydrocarbon concentrations were found to exceed the *Method A Groundwater Cleanup Levels* of WAC 173-340-720 at the Monitoring Well #3 location for this sampling event. Sage recommends that purge water generated during monitoring well sampling activities be uncovered and allowed to evaporate. It should be covered during period of precipitation.

4.0 Limitations

In performance of this project, Sage Earth Sciences has conducted its activities in accordance with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. The conclusions are based upon our field observations and independent laboratory analyses. Since the scope of work for this project is confined to sampling and analysis of Monitoring Well #3 for petroleum hydrocarbons and groundwater gradient characterization services, this document does not imply that the property is free of other environmental constraints. This report is solely for the use and information of our client. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and other parameters indicated. Sage Earth Sciences, Inc. is not responsible for the impacts of changes in environmental standards, practices, or regulations subsequent to the performance of services. Sage Earth Sciences, Inc. does not warrant the accuracy of information supplied by others, nor use of segregated portions of this report. Sage Earth Sciences, Inc. assumes no liability for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

YAKIMA COUNTY

SITE ID:	**Gearjammer Truck Plaza**		Cleanup Site ID: 7073	FS ID: 26981244
	Alternate Name(s):	Gear Jammer Truck Plaza, Gearjammer Truck Plaza, The Gearjammer, The Jammer		

LOCATION:		WRIA: 37	Lat/Long:	46.568	-120.473	View Vicinity Map
Address:	2310 RUDKIN RD		Township	Range	Section	Legislative District: 15
	UNION GAP 98903		13N	19E	32	Congressional District: 4

STATUS:	**Cleanup Started**	Rank: 5	View Site Web Page	View Site Documents
	Responsible Unit: Central	Site Manager: Smith, Frosti	Statute: MTCA	
	Is Brownfield?	Has Environmental Covenant?	Is PSI Site?	
	NFA Received?	NFA Date:	NFA Reason:	

ASSOCIATED CLEANUP UNIT(s)

cuID	Cleanup Unit Name	Unit Type	Process Type	Unit Status	Size (Acres)	ERTS ID
6038	Gearjammer Truck Plaza	Upland	Independent Action	Cleanup Started		C503247

SITE ACTIVITIES:

Applies to:	Related ID (Unit-LUST-VCP)	Activity Display Name	Status	Start Date	End Date	Legal Mechanism	Performed By	Project Manager
CleanupSite		Site Discovery/Release Report Received	Completed	3/11/1999	3/11/1999			Bassett, Dick
CleanupSite		Early Notice Letter(s)	Completed	4/23/1996	4/23/1996			Bassett, Dick
CleanupSite		Site Hazard Assessment/Federal Site Inspection	Completed	4/2/2000	6/30/2004		Ecology	Bassett, Dick
CleanupSite		Hazardous Sites Listing/NPL	Completed	1/29/2004	1/29/2004			Bassett, Dick
LUST		LUST - Notification	Completed	3/11/1999	3/11/1999			Kroon, Debra
LUST		LUST - Notification	Completed	2/26/1996	2/26/1996			
LUST		LUST - Site Assessment Report	Completed	8/31/2004	8/31/2004			
LUST		LUST - Site Characterization Report		2/22/1996	2/22/1996			
LUST		LUST - Report Received	Completed	6/20/2002	6/20/2002			
LUST		LUST - Report Received	Completed	7/20/2015	7/20/2015			
LUST		LUST - Report Received	Completed	3/24/2010	3/24/2010			
LUST		LUST - Report Received	Completed	11/11/2009	11/11/2009			
LUST		LUST - Report Received	Completed	10/23/2009	10/23/2009			

LUST		LUST - Report Received	Completed	11/7/2014	11/7/2014			
LUST		LUST - Report Received	Completed	5/8/2001	5/8/2001			
LUST		LUST - Report Received	Completed	5/8/2001	5/8/2001			
LUST		LUST - Report Received	Completed	7/13/2010	7/13/2010			
LUST		LUST - Report Received	Completed	9/28/2015	9/28/2015			
LUST		LUST - Report Received	Completed	3/16/2015	3/16/2015			
LUST		LUST - Report Received	Completed	7/3/2000	7/3/2000			
VcpProject	CE0312	VCP Application	Completed	7/28/2009	7/28/2009			Smith, Frosti
VcpProject	CE0312	VCP Status Request	Completed	5/16/2012	5/21/2012			Smith, Frosti
VcpProject	CE0312	VCP Termination	Completed	5/21/2012	5/21/2012			Smith, Frosti
VcpProject	CE0312	VCP Opinion on Interim Action	Completed	7/27/2009	9/8/2010			Bassett, Dick

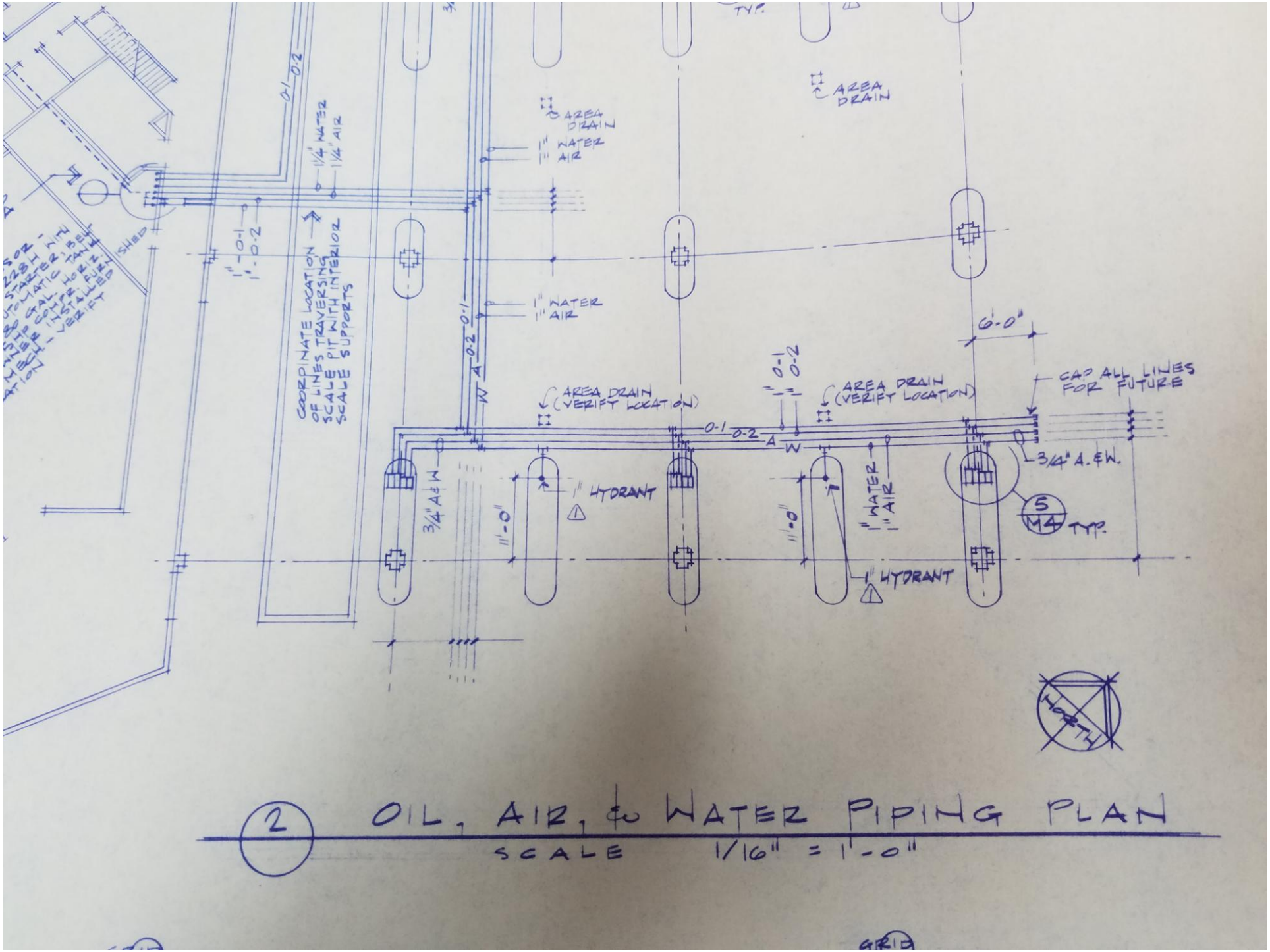
AFFECTED MEDIA & CONTAMINANTS:

Media:

Contaminant:	Ground Water	Surface Water	Soil	Sediment	Air	Bedrock
Non-Halogenated Solvents	C		C			
Petroleum Products-Unspecified	C					
Petroleum-Diesel	C		C			
Petroleum-Gasoline			C			

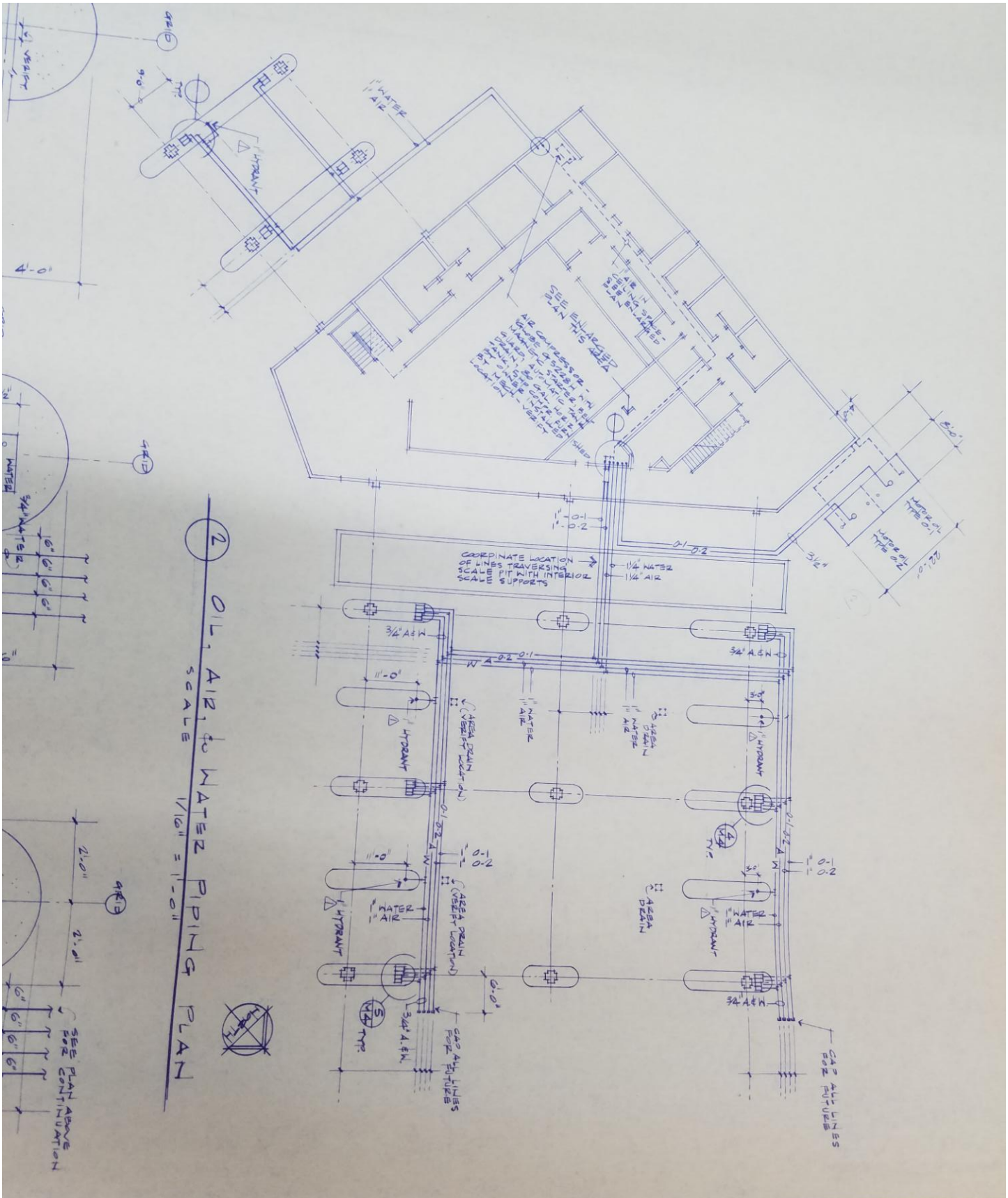
Key:
B - Below Cleanup Level
C - Confirmed Above Cleanup Level
S - Suspected
R - Remediated
RA - Remediated-Above
RB - Remediated-Below

CleanupSiteDetails2014



2 OIL, AIR, & WATER PIPING PLAN

SCALE 1/16" = 1'-0"



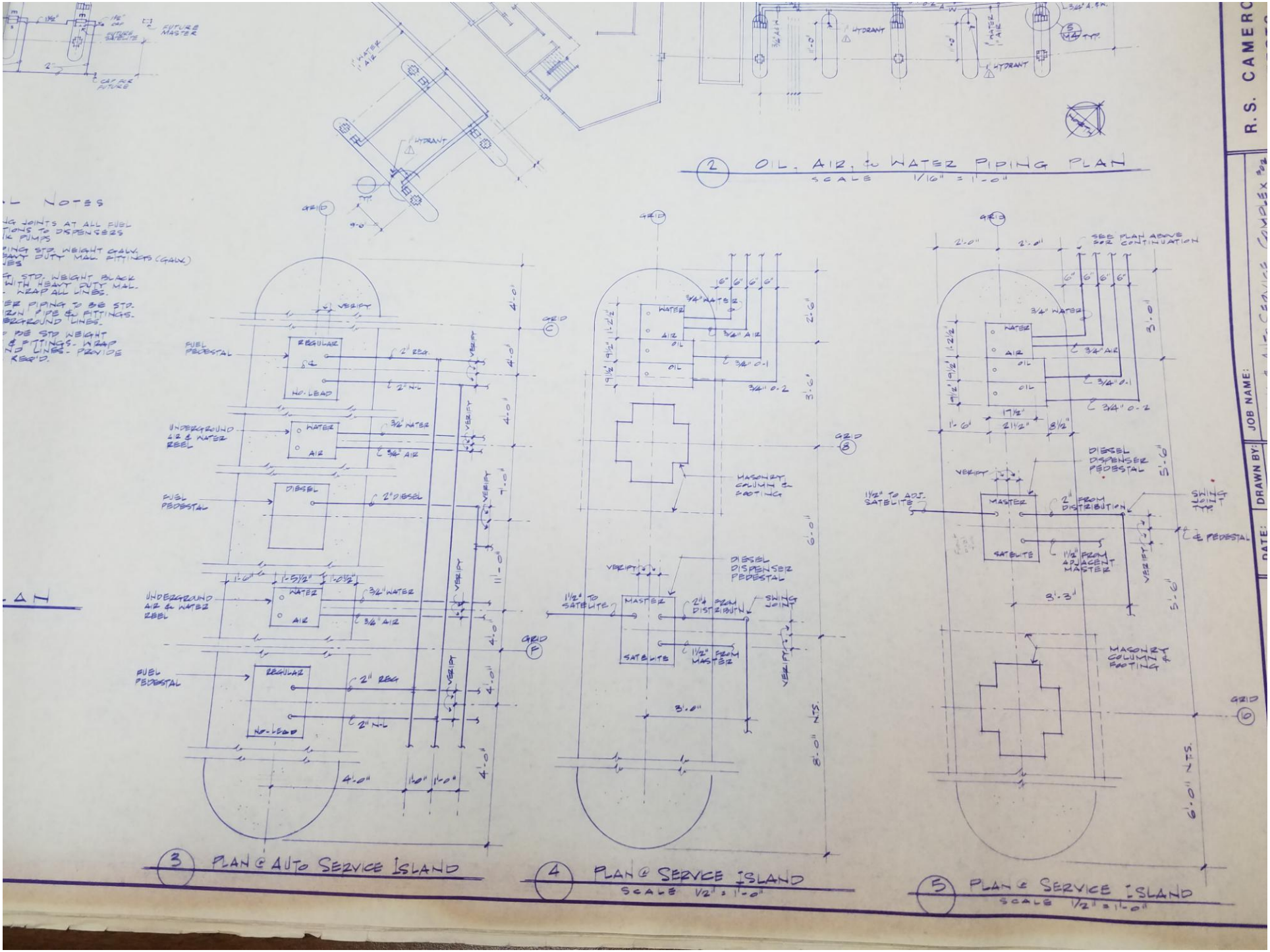
2 OIL, AIR, & WATER PIPING PLAN

SCALE 1/16" = 1'-0"

E COMPLEX FOR
MENT COMPANY
WASHINGTON

R. S. CAMERON & COMPANY, P. S.
ARCHITECTS & ENGINEERS
YAKIMA, WASHINGTON PH. 453-5501

REVISIONS:
△ ADDED HYDRANTS 5/25/78 J.M.A.


2 OIL, AIR, & WATER PIPING PLAN
SCALE 1/16" = 1'-0"
3 PLAN @ AUTO SERVICE ISLAND
4 PLAN @ SERVICE ISLAND
SCALE 1/2" = 1'-0"
5 PLAN @ SERVICE ISLAND
SCALE 1/2" = 1'-0"
FUEL PEDESTAL
REGULAR
DIESEL
UNDERGROUND AIR & WATER REEL
MASTER
SATELITE
DIESEL DISPENSER PEDESTAL
MASONRY COLUMN & FOOTING
SEE PLAN ABOVE FOR CONTINUATION
HYDRANT
R.S. CAMERO
JOB NAME:
DRAWN BY:
DATE: